



01-0551

Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

SDMS # 42365

Transmitted Via Overnight Delivery

February 28, 2003

Bryan Olson
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**Re: GE-Pittsfield/Housatonic River Site
Floodplain Residential and Non-Residential Properties Adjacent to 1½ Mile
Reach of Housatonic River (GECD710 and GECD720)
Pre-Design Investigation and Soil Evaluation Report for Phase 1 Properties**

Dear Mr. Olson:

As you know, the General Electric Company (GE) and the U.S. Environmental Protection Agency (EPA) previously agreed that GE would address the non-riverbank portions of the Floodplain Current Residential Properties and Floodplain Non-Residential Properties Adjacent to the 1½ Mile Reach of the Housatonic River (as those areas are defined in the Consent Decree for this Site) in four separate phases, corresponding generally to EPA's work on the 1½ Mile Reach. Enclosed is a document entitled *Pre-Design Investigation and PCB Soil Evaluation Report for Phase 1 Floodplain Properties Adjacent to the 1½ Mile Reach of Housatonic River* (Pre-Design Investigation/Evaluation Report). This report presents the results of the pre-design investigations conducted by GE for polychlorinated biphenyls (PCBs) in soils at the floodplain properties in Phase 1 of the above-referenced Removal Action Areas – i.e., those located between the Lyman Street and Elm Street Bridges. In addition, this report presents the results of GE's evaluation of the need for further response actions to address PCBs in soil at these properties and an evaluation of the need for pre-design soil sampling for non-PCB constituents.

In GE's January 2002 *Pre-Design Investigation Work Plan for Floodplain Properties Adjacent to the 1½ Mile Reach of Housatonic River* (PDI Work Plan), as modified by the PDI Work Plan Addendum for the Phase 1 properties, submitted on July 22, 2002 (and approved by EPA on August 7, 2002), GE proposed that, at the conclusion of the initial pre-design soil investigations for PCBs at these properties, GE would submit a Second PDI Work Plan Addendum that would present the results of those investigations, identify the need for any additional PCB sampling, evaluate the need for response actions to address PCBs, and present an evaluation of the need for and scope of pre-design soil sampling for other constituents. As discussed in the enclosed report, GE has concluded that the available soil PCB data are complete and sufficient to conduct Removal Design/Removal Action (RD/RA) evaluations for these properties. Further, as also shown in this report, based on an evaluation of the available soil PCB data, the existing PCB concentrations in soil at each Phase 1 property already meet the applicable PCB

REPORT

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Pre-Design Investigation and PCB Soil Evaluation Report for Phase 1 Floodplain Properties Adjacent to the 1½ Mile Reach of Housatonic River

**General Electric Company
Pittsfield, Massachusetts**

February 2003

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

*Pre-Design Investigation and PCB
Soil Evaluation Report for Phase 1
Floodplain Properties Adjacent to the
1½ Mile Reach of Housatonic River*

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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 requires (among other things) the performance of Removal Actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents present in soils, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts. These RAAs are part of the GE-Pittsfield/Housatonic River Site (the Site). For each Removal Action, the CD and accompanying *Statement of Work for Removal Actions Outside the River* (SOW) (Appendix E to the CD) 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 (as appropriate) a Pre-Design Investigation Work Plan, a Pre-Design Investigation Report, a Conceptual Removal Design/Removal Action (RD/RA) Work Plan (if response actions are necessary), and a Final RD/RA Work Plan, if needed.

In January 2002, GE submitted to EPA a document titled *Pre-Design Investigation Work Plan for Floodplain Properties Adjacent to the 1½ Mile Reach of Housatonic River* (PDI Work Plan). The PDI Work Plan proposed initial pre-design PCB soil investigations for two RAAs identified in the CD and SOW: 1) Floodplain Current Residential Properties Adjacent to the 1½ Mile Reach – Actual/Potential Lawns; and 2) Floodplain Non-Residential Properties Adjacent to the 1½ Mile Reach (Excluding Banks). These RAAs include the non-riverbank portions of several properties located between Lyman Street Bridge and the confluence of the East and West Branches of the Housatonic River, each of which is subject to Performance Standards established in the CD and SOW. Based on: 1) the locations of the individual properties associated with these two RAAs; 2) general similarities in the scope of pre-design soil investigations; and 3) timing considerations for future response actions at these properties, the proposed pre-design soil investigations for these two RAAs were combined into the above-referenced PDI Work Plan. These two combined RAAs will hereafter be referred to as the 1½ Mile Floodplain RAAs.

To provide coordination between any future response actions that may be needed for the 1½ Mile Floodplain RAAs and those to be separately conducted by EPA for sediments and riverbank soils in this same reach of the river, GE proposed, in the PDI Work Plan, to conduct pre-design investigations and subsequent RD/RA activities (if necessary) for the 1½ Mile Floodplain RAAs in four phases:

-
- Phase 1 – Lyman Street Bridge to Elm Street Bridge;
 - Phase 2 – Elm Street Bridge to Dawes Avenue;
 - Phase 3 – Dawes Avenue to Pomeroy Avenue; and
 - Phase 4 – Pomeroy Avenue to the Confluence.

The PDI Work Plan described the initial PCB soil investigations for all properties within the 1½ Mile Floodplain RAAs, and included a phased schedule to implement those investigations. Additionally, the PDI Work Plan proposed to conduct the pre-design soil investigations in an iterative manner, with an initial focus on PCBs. As part of this approach, GE would conduct the initial soil sampling for PCBs at the properties in each phase; and once those investigations are completed, GE would submit an addendum which would: (1) evaluate the PCB data to determine the need for and extent of soil remediation to achieve the applicable PCB-based Performance Standards for the properties in that phase; and (2) based on that assessment, evaluate the need for and scope of supplemental soil sampling for non-PCB constituents at those properties and, if warranted, present a proposal for such sampling.

In its conditional approval letter for the PDI Work Plan, dated July 8, 2002, EPA generally concurred with that phased and iterative approach and provided conditional approval of the proposed pre-design soil investigations for the properties in Phase 1 of the 1½ Mile Floodplain RAAs. That letter also directed GE to submit an Addendum to the PDI Work Plan for the Phase 1 properties to address certain conditions in EPA's letter and to provide certain clarifications and updates relating to those properties. By letter of July 22, 2002, GE submitted the required Work Plan Addendum for the Phase 1 properties, and EPA approved that Addendum by letter of August 7, 2002.

GE completed the pre-design PCB soil investigations for those properties in Phase 1 of the 1½ Mile Floodplain RAAs between August 22 and November 4, 2002. This document presents the results of those investigations. In addition, based on these results, GE has evaluated the need for: (1) PCB-related response actions for soils at these properties; and (2) pre-design sampling for the non-PCB constituents listed in Appendix IX of 40 CFR 264, plus benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3).

1.2 Scope of Document

Phase 1 properties in the 1½ Mile Floodplain RAAs consist of two groups: Group 1A and Group 1B (Figure 1). Group 1A consists of 4 contiguous properties (Parcels I9-4-12, I8-24-5, I8-24-101, and I8-24-301) located along the north side of the Housatonic River (Figure 2). Within this group, there are two residential properties (Parcels I9-4-12

and I8-24-301), one commercial property (Parcel I8-24-5), and one recreational property (Parcel I8-24-101). Group 1B consists of one commercial property (Parcel I8-24-1) located along the north side of the Housatonic River (Figure 3).

The pre-design soil investigations for PCBs at these properties were performed in accordance with the PDI Work Plan and the Phase 1 Work Plan Addendum (collectively, the PDI Work Plans), as conditionally approved by EPA. As noted above, the field investigations were performed by GE between August 22 and November 4, 2002. Based on the results of these investigations, the need for one additional pre-design soil sample was identified by GE in a letter to EPA dated February 5, 2003, and subsequently collected on February 6, 2003. This document includes several tables and figures that summarize the available PCB soils data resulting from recent as well as historical sampling activities.

In the PDI Work Plans, GE proposed to submit a Second Work Plan Addendum that would present the results of the completed pre-design PCB soil investigations, identify the need for any additional PCB sampling, evaluate the need for response actions to address PCBs, and present an evaluation of the need for and scope of pre-design soil sampling for other Appendix IX+3 constituents. As discussed in this report, based on an evaluation of the available soil PCB data, the existing PCB concentrations in soil at each Phase 1 property already meet the applicable PCB Performance Standards, and hence there is no need for any further response actions to address PCBs at these properties. Further, as also discussed in this report, given the absence of any required remediation to address PCBs, GE believes that, in accordance with the SOW, there is no need to conduct soil sampling for other Appendix IX+3 constituents at these floodplain properties located downstream of the GE Plant Area. (Note: The existing non-PCB data from these properties were included in the July 22, 2002 Work Plan Addendum.) In these circumstances, there is no need for the aforementioned Second Addendum. Instead, GE has prepared this *Pre-Design Investigation and PCB Soil Evaluation Report for Phase 1 Floodplain Properties Adjacent to the 1/2 Mile Reach of Housatonic River* (Pre-Design Investigation/Evaluation Report) to summarize the pre-design PCB soil investigations and the results of RD/RA evaluations for PCBs in soils, as well as to present GE's evaluation regarding non-PCB constituents.

1.3 Format of Document

The remainder of this document is presented in five sections and is supplemented by several tables, figures, and appendices. Section 2 describes the pre-design soil investigations, provides a summary of the available PCB soil data from this area, and presents an assessment of remaining PCB soil-related data needs. Section 3 presents the RD/RA evaluations conducted for PCBs in soils. Section 4 presents an evaluation of the need for additional sampling for non-

PCB constituents at the Phase 1, Group 1A and 1B properties. Finally, Section 5 describes future activities and schedule related to the 1½ Mile Floodplain RAAs.

2. Summary of PCB Soil Investigations

2.1 General

The available pre-design PCB soil data set were derived from a number of different sources and sampling activities. The majority of the data were obtained by GE as part of the recent pre-design investigations conducted between August 22 and November 4, 2002 in accordance with the PDI Work Plans. In addition to these data, other data have been obtained and were incorporated, as appropriate, into this report. These data include the following:

- During preparation of the PDI Work Plans, an assessment of existing data was performed. From that effort, it was determined that certain existing data could be used to satisfy pre-design sampling requirements and support RD/RA evaluations.
- During the performance of the pre-design soil investigations, EPA representatives provided oversight of GE's sampling activities. During these activities, EPA representatives collected one soil sample from a location being sampled by GE for separate laboratory analysis for PCBs.
- Following GE's performance of the EPA-approved pre-design soil investigations, GE collected (on February 6, 2003) an additional surface soil sample for analysis of PCBs.
- Due to the location of the Lyman Street Area RAA (adjacent to and north of Group 1A properties), various sample locations within the Lyman Street Area that border the properties in Group 1A have been incorporated into the RD/RA evaluations presented in this document.

GE's recent pre-design investigations (including sample collection and survey activities) were performed by Blasland, Bouck & Lee, Inc. (BBL), while analytical services were provided by CT&E Environmental Services, Inc. All field and analytical activities conducted by GE were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP) (December 2002). Soil boring logs are presented in Appendix A to this report.

Soil samples collected by GE for PCB analysis during the pre-design investigations were analyzed for Arochlor-specific PCBs by EPA Method 8082. The PCB results were reported on a dry-weight basis with a detection limit of approximately 0.05 parts per million (ppm, or milligrams per kilogram, mg/kg) for all Aroclors.

During the performance of these activities, Weston Solutions, Inc. (Weston) performed oversight activities on behalf of EPA, including the collection and analysis of one soil sample at a certain location identified by Weston. This pre-design soil sampling effort (including the combined efforts of GE and EPA) involved the collection and analysis of approximately 117 soil samples from 56 locations.

When considering the overall PCB soil data set (i.e., when incorporating all of the investigations listed above), the soil data available to support the PCB RD/RA evaluations for the Phase 1, Group 1A and 1B properties include results from approximately 158 analyses of soil samples collected from approximately 72 locations. Figures 2 and 3 identify the sample locations, including the locations of usable historical soil samples, as well as samples collected and analyzed by GE and EPA during the pre-design investigations.

2.2 Summary of Pre-Design Sampling and Analysis Activities

The actual pre-design sample locations, frequencies, and depths were consistent with the proposals contained in the PDI Work Plans, with one exception. For Parcel I9-4-12, the PDI Work Plan (dated January 2002) initially identified that property as a non-residential/non-commercial property. However, based on a subsequent reconnaissance performed by GE, the Work Plan Addendum (dated July 22, 2002) clarified that this property is in fact a residential property, so that the proposed soil boring at this property (1A-SB-1) would be subject to sampling and analysis from depth increments consistent with those identified for residential properties in the PDI Work Plan (i.e., 0 to 1 foot, 1 to 3 feet, 3 to 5 feet, 5 to 7 feet, and 7 to 9 feet). However, sample location 1A-SB-1 was inadvertently sampled from depth increments related to non-residential properties in the PDI Work Plan (i.e., 0 to 1 foot, 1 to 3 feet, 3 to 6 feet, 6 to 10 feet, and 10 to 15 feet). Since the sample result from the 3- to 6-foot depth interval did not identify any detectable PCBs, additional analysis below 6 feet was not necessary. The sample result from the 3- to 6-foot depth interval at pre-design sample location 1A-SB-1 has been incorporated into the PCB remedial evaluations for this residential property (further discussed in Section 3) as a 3- to 5-foot depth interval sample result.

2.3 Summary of Available PCB Soil Data

For the Phase 1, Group 1A and 1B properties, the soil data used to perform the RD/RA evaluations for PCBs include the results of GE's recent pre-design investigations, as well as data available from prior investigations and data collected by EPA. The following table summarizes the current PCB data set (not including QA/QC analyses with the exception of field duplicate soil samples):

Analytical Parameter	GE Pre-Design Analyses*	EPA Pre-Design Analyses	Historical Soil Analyses	Total Soil Analyses
PCBs	122	1	35	158

* includes 6 analyses from the Lyman Street Area that were incorporated into the PCB remedial evaluations for the Phase 1 properties within the 1½ Mile Floodplain RAAs. Note that the Lyman Street Area is being addressed separately under the CD and SOW.

The locations from which these soil samples were collected, along with the PCB sample results, are shown on Figures 2 and 3. The pre-design PCB analytical results for soil samples collected by GE at the 1½ Mile Floodplain RAAs, as well as those from the Lyman Street Area that were incorporated into the PCB remedial evaluations, are provided in Tables 1 and 2, respectively. Table 3 provides the historical PCB results for samples analyzed by both GE and EPA. Table 4 presents the pre-design PCB analytical result for the one sample collected by EPA.

2.4 Data Quality Assessment

For the pre-design activities performed by GE, quality control samples (i.e., matrix spike/matrix spike duplicates, field duplicates, and field blanks) were collected in accordance with the FSP/QAPP. The FSP/QAPP also presents the quality control criteria and corrective action procedures to be followed for each analytical and field-generated quality control sample. Overall project quality assurance was provided by following the procedures for sample collection and analysis, corrective action, and data reporting and validation specified in the FSP/QAPP. Appendix B further describes the quality assessment procedures that were performed for the GE sampling activities.

All of the GE pre-design PCB analytical data (excluding the Lyman Street data, which will undergo separate data validation as part of preparation of the Lyman Street Area Pre-Design Investigation Report, due in April 2003) have undergone data validation in accordance with Section 7.5 of the FSP/QAPP. The results of this assessment for the pre-design samples are summarized in Appendix B. As discussed in the data validation report presented in Appendix B, 98.9% of the recent GE pre-design data are considered to be usable (data rejected consisted of non-detected PCB sample results), which is greater than the minimum required usability of 90% as specified in the FSP/QAPP. Thus, the overall pre-design soil PCB data set meets the data quality objectives set forth in the PDI Work Plans and the FSP/QAPP.

As indicated in the PDI Work Plans, the historical soil data were previously reviewed for overall quality, based on the accompanying laboratory documentation (where available). That data review resulted in the designation of some data as usable both to satisfy pre-design investigation requirements and for PCB remedial evaluations, and other data as supplemental data for use in PCB remedial evaluations. No data were rejected or eliminated.

It is GE's understanding that the analytical result for the soil sample collected and analyzed by EPA was validated by EPA prior to receipt by GE. Therefore, this result is considered acceptable and was used in the RD/RA evaluations discussed in Section 3.

2.5 Assessment of Potential PCB Data Needs

Following the performance of the pre-design soil investigations performed between August and November 2002, a PCB data need was identified by GE and subsequently presented in a letter to EPA dated February 5, 2003. Specifically, based on the detection of PCBs at pre-design sample location 1A-SS-1 (2.24 ppm at the 0- to 1-foot depth interval), GE identified and subsequently collected (on February 6, 2003) an additional surface soil sample at sample location 1A-SS-16 to determine the horizontal extent of PCBs at Parcel I9-4-12 (Figure 2). The analytical PCB result from this additional pre-design soil sample (1.3 ppm) adequately addressed this data need. No other PCB data needs were identified. Therefore, the available PCB soil data are sufficient to support RD/RA evaluations for PCBs in soil.

3. PCB Soil Evaluations

3.1 General

Based on an initial review of the available PCB soil data set, it was determined that the existing soil conditions within the Phase 1 properties may already achieve the applicable Performance Standards for PCBs, such that no response actions would be necessary. As a follow-up to this initial finding, GE has conducted a detailed evaluation of PCBs in these soils consistent with the requirements of the CD and SOW. This section summarizes those evaluations. Included herein are an overview of the applicable PCB-related Performance Standards for the 1½ Mile Floodplain RAAs (Section 3.2) and a description of the procedures established in the CD and SOW for conducting RD/RA evaluations (Section 3.3). The results of the PCB RD/RA evaluations are presented in Section 3.4.

3.2 Overview of PCB-Related Performance Standards

The Performance Standards for soils at the 1½ Mile Floodplain RAAs are set forth in Paragraphs 24, 28.a, and 29 of the CD and Section 2.5.2 of the SOW. These Performance Standards have been established based on (among other considerations) the use of the property (e.g., residential, recreational, or commercial/industrial) and whether or not a Grant of Environmental Restriction and Easement (ERE), if needed, will be obtained for recreational and commercial/industrial properties. The CD (Paragraph 24.b) and the SOW (Section 2.5.2) specify that there is no need for an ERE at a non-residential property if the Performance Standards for residential use are met at the property.

The need for response actions for PCBs in soils within the 1½ Mile Floodplain RAAs is generally to be determined based on the results of spatial averaging conducted for each property in accordance with the procedures described in Attachment E to the SOW. Included in that attachment are protocols related to the selection of the appropriate areas and depths of a property subject to spatial averaging, 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 applicable Performance Standards. For purposes of such averaging, the SOW provides that GE may consider the entire Actual/Potential Lawn of a residential property or the entire non-riverbank portion of a non-residential property -- including (in both cases) the portion lying within the floodplain and any portion outside the floodplain -- as an averaging area, provided that, for surface soil: (a) residential, recreational, or commercial exposure (as applicable) is equally likely throughout that area; and (b) GE ensures the removal of all soils in the top foot in unpaved portions of

the property that contain PCB concentrations above certain not-to-exceed (NTE) levels identified below (unless the averaging area is less than certain specified sizes).

Once calculated, the spatial average PCB concentrations for a given property are compared to the applicable PCB Performance Standards. Such standards have been developed for residential, recreational, and commercial/industrial properties within the 1½ Mile Floodplain RAAs. An overview of the pertinent Performance Standards related to the presence of PCBs in soil at the 1½ Mile Floodplain RAAs is presented below:

- For the two residential properties located in Phase 1 of these RAAs (Parcels I9-4-12 and I8-24-301), GE must calculate spatial average PCB concentrations for the 0- to 1-foot and 1- to X-foot depth increment at each Actual/Potential Lawn averaging area, where X equals the depth at which PCBs are detected (up to a maximum depth of 15 feet). If the spatial average PCB concentration in the 0- to 1-foot or 1- to X-foot depth increments exceeds 2 ppm, GE must remove and replace soils as necessary to achieve a spatial average PCB concentration at or below 2 ppm in each of those depth increments. In addition, if the averaging area for surface soil consists of the entire Actual/Potential Lawn of the property and exceeds 0.25 acre in size, GE must remove all soils in the top foot of unpaved areas that have PCB concentrations exceeding 10 ppm.
- For the one GE-owned recreational property located in Phase 1 of these RAAs (Parcel I8-24-101), GE must impose an ERE unless the Performance Standards for residential use are met. In addition, GE must calculate spatial average PCB concentrations for the 0- to 1-foot and 1- to 3-foot depth increments for each non-riverbank averaging area. 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 must remove and replace soils as necessary to achieve spatial average PCB concentrations at or below those levels in the increments specified above. GE must then calculate the spatial average PCB concentration for the 0- to 15-foot depth increment (or to whatever depth sampling data exist, if less than 15 feet), incorporating the anticipated performance of any response actions for the uppermost three feet of the averaging area. If that spatial average exceeds 100 ppm, GE must install an engineered barrier in accordance with the specifications for such barriers contained in the SOW. Additionally, if the averaging area for unpaved surface soil consists of the entire non-bank portion of the property and exceeds 0.5 acre in size, GE must remove all soils in the top foot of unpaved areas that have PCB concentrations exceeding 50 ppm.
- For the two non-GE-owned commercial/industrial properties (Parcels I8-24-1 and I8-24-5), GE must make “best efforts” (as defined in the CD) to obtain EREs at the properties unless the Performance Standards for residential use are met. If an ERE must be sought, the scope of soil-related response activities at a property is dependent

upon whether an ERE can be obtained or a Conditional Solution will be implemented, as discussed below.

- For properties where an ERE is obtained, if the spatial average PCB concentration in the top foot of soil in the unpaved non-riverbank portion of the property exceeds 25 ppm, GE must remove and replace soils as necessary to achieve that average concentration in such portion. For the paved portion of the property, if the spatial average PCB concentration exceeds 25 ppm in the top foot of soil, GE must either remove and replace soils as necessary to achieve that spatial average concentration or else enhance the pavement in such portion in accordance with the specification for pavement enhancement in the SOW. In addition, considering both paved and unpaved portions together, GE must remove/replace soils as necessary to achieve a spatial average PCB concentration of 200 ppm in the 1- to 6-foot depth increment at the non-riverbank portion of such property. Further, GE must install an engineered barrier if the remaining spatial average PCB concentration in the 0- to 15-foot depth increment (or to whatever depth sampling data exist, if less than 15 feet), incorporating the anticipated performance of any response actions for the 0- to 1-foot and 1- to 6-foot depth increments, exceeds 100 ppm. Additionally, if the averaging area for surface soil consists of the entire non-bank portion of the property and exceeds 0.5 acre in size, GE must remove all soils in the top foot of unpaved areas that have PCB concentrations exceeding 125 ppm.

- For properties where an ERE must be sought but cannot be obtained, GE must implement a Condition Solution, which includes soil removal/replacement as necessary to achieve spatial average PCB concentrations of 25 ppm in both the top foot of soil (considering paved and unpaved portions together) and the top 3 feet of soil (incorporating the anticipated performance of any response actions for the 0- to 1-foot depth increment) and 200 ppm in the 1- to 6-foot depth increment (incorporating the anticipated performance of any response actions for the 0- to 3-foot depth increment). Further, GE must install an engineered barrier if the remaining spatial average PCB concentration in the 0- to 15-foot depth increment (or to whatever depth sampling data exist, if less than 15 feet), incorporating the anticipated performance of any response actions for the uppermost 6 feet of the averaging area, exceeds 100 ppm. Additionally, if the averaging area for surface soil consists of the entire non-bank portion of the property and exceeds 0.5 acre in size, GE must remove all soils in the top foot of unpaved areas that have PCB concentrations exceeding 125 ppm.

- Regardless of whether an ERE is obtained, the following additional Performance Standards are applicable to the non-residential properties within the 1½ Mile Floodplain RAAs:

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- For those properties where utilities potentially subject to emergency repair are present (e.g., water, gas, sewer, electricity, communication, and storm water), GE must calculate a spatial average PCB concentration for the appropriate utility corridor. If that average exceeds 200 ppm, GE must evaluate whether any additional response actions are necessary for that utility corridor.

 - If a new sub-grade utility is installed at such a property or if an existing utility is repaired or replaced, GE must ensure that the spatial average PCB concentration of the backfill materials is at or below 10 ppm in the top 3 feet and 25 ppm for soils at greater depths for recreational properties, and at or below 25 ppm for commercial/industrial properties.

3.3 Summary of PCB Evaluation Procedures

The general procedures used to calculate spatial average PCB concentrations are established in Attachment E to the SOW (Protocols for PCB Spatial Averaging) and are summarized below. To perform the evaluations summarized in this section, several detailed maps and computer spreadsheets have been prepared. These materials are provided in Appendix C to this report.

The initial step in the calculation of spatial average PCB concentrations involves the preparation of a detailed site plan to illustrate the following features:

- property/area boundaries;
- surface topography;
- soil sampling locations within and adjacent to area;
- presence of roadways, utilities, easements, etc.;
- presence of buildings, pavement, and other permanent structures; and
- other significant site features.

To support the RD/RA evaluations, survey information provided by EPA was used to develop the base mapping for the PCB evaluations discussed below. It is GE's understanding that this survey information was generated for use in the EPA's design for the Phase 1/Phase 2 transition of the 1½ Mile Reach Removal Action. As such, it is considered adequate for use in RD/RA evaluations.

The next step in the evaluation process is the development of Thiessen polygon maps for each averaging area and depth interval subject to the PCB Performance Standards established in the CD and SOW. Thiessen polygon mapping involves the use of computer software to draw perpendicular bisector lines between adjacent sample locations to create two-dimensional, sample-specific polygon areas. Certain boundary conditions impact the generation of Thiessen polygons, such as the boundaries of the area subject to averaging, presence of paved and unpaved areas, easement boundaries, building footprints, property lines, etc. As appropriate, the computer-generated Thiessen polygons are modified to reflect actual site conditions, presence/absence of soil at a given depth, locations of property ownership lines, or other specific or unique site considerations. Once the Thiessen polygon mapping is complete, the soil areas and depths subject to PCB Performance Standards (and possible response actions) are adequately defined for use in subsequent evaluations. After generation of the Thiessen polygons, polygon identification numbers are assigned to each polygon and the surface area of each polygon is calculated.

The next step in the calculation of spatial average PCB concentrations is the development of computer spreadsheets to combine information obtained from the Thiessen polygon mapping (i.e., polygon ID and area for each polygon) with the analytical results of soil sampling to provide a three-dimensional characterization of the soils associated with each polygon. The volume of soil associated with each polygon is based on the surface area of the polygon multiplied by the corresponding depth of soil for which samples were collected. Using the information described above, a spatial average PCB concentration for each relevant depth increment is derived by multiplying the volume of each polygon by its assigned PCB concentration, summing the results of this calculation for each polygon involved in the evaluation, and then dividing that sum by the cumulative soil volume associated with all of the polygons. This procedure yields a spatial average PCB concentration that incorporates both volume- and area-weighted considerations.

3.4 Summary of Parcel-Specific PCB Evaluations

Using the available PCB soils data and spatial averaging procedures summarized in Section 3.4, spatial average PCB concentrations have been calculated for soils for each Phase 1 property. Once calculated, these concentrations were compared to the applicable PCB Performance Standards. A summary of these evaluations and corresponding results is presented below on a property-specific basis.

To support the PCB evaluations discussed below, the following evaluation materials have been prepared for each property and are included in Appendix C:

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- Site mapping identifying specific Thiessen polygons for several depth increments within each property; and
 - Computer spreadsheets for the relevant depth increments, which incorporate the site plan information (i.e., Thiessen polygon size) and the corresponding PCB analytical data and show the resulting spatial average PCB concentrations for those depth increments.

A summary of the evaluation results is provided below.

3.4.1 Parcel I9-4-12

Parcel I9-4-12 is a non-GE-owned residential property within Phase 1, Group 1A. Using the available PCB soils data and spatial averaging procedures previously summarized, the existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 0.93 ppm. For the 1- to X-foot depth increment, the data from the 1- to 5-foot depth increment were used (since PCBs were not detected below 5 feet), and the resulting spatial average PCB concentration is 0.30 ppm. Tables C-1 and C-2 of Appendix C provide a summary of the spatial average PCB calculations for these depth increments. In addition, the maximum PCB concentration in the uppermost foot of unpaved soil is 2.24 ppm, which is well below the applicable NTE level for this type of property.

Based on the evaluation results summarized above, existing conditions at this property already achieve the applicable PCB Performance Standards for residential properties. Therefore, no response actions are necessary to address PCBs in soils at this property.

3.4.2 Parcel I8-24-301

Parcel I8-24-301 is also a non-GE-owned residential property within Phase 1, Group 1A. Based on the PCB soils data available for this property, the existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 0.74 ppm. For the 1- to X-foot depth increment, the data from the 1- to 5-foot depth increment were used (since PCBs were not detected below 5 feet), and the resulting spatial average PCB concentration is 0.59 ppm. Tables C-3 and C-4 of Appendix C provide a summary of the spatial average PCB calculations for these depth increments. In addition, the maximum PCB concentration in the uppermost foot of unpaved soil is 1.4 ppm, which is well below the applicable NTE level for this type of property.

Based on the evaluation results summarized above, existing conditions at this property already achieve the applicable PCB Performance Standards for residential properties. Therefore, no response actions are necessary to address PCBs in soils at this property.

3.4.3 Parcel I8-24-101

Parcel I8-24-101 is a GE-owned recreational property in Phase 1, Group 1A. Using the available PCB soils data and spatial averaging procedures previously summarized, the existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 1.60 ppm, that for the 1- to 3-foot depth increment is 2.16 ppm, and that for the 0- to 15-foot depth increment is 0.89 ppm. Tables C-5 through C-7 of Appendix C provide a summary of the spatial average PCB calculations for these depth increments. In addition, the maximum PCB concentration in the uppermost foot of unpaved soil is 2.14 ppm, which is well below the applicable NTE level for this type of property. Based on these concentrations, the applicable PCB Performance Standards are already met under existing conditions, and thus no response actions are necessary to address PCBs at this property.

To determine whether an ERE is necessary at this GE-owned property, GE evaluated whether this property meets the Performance Standards for residential properties. The existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 1.60 ppm (Table C-5) and that for the 1- to X-foot depth increment (which is represented by the 1- to 10-foot depth increment, since PCBs were not detected below 10 feet) is 1.28 ppm (Table C-8). Since these concentrations are below the Performance Standards for residential use, an ERE at this property is not required.

3.4.4 Parcel I8-24-5

Parcel I8-24-5 is a non-GE-owned commercial/industrial property within Phase 1, Group 1A. Based on the PCB soils data available for this parcel, the existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 0.67 ppm, that for the 0- to 3-foot depth increment is 0.54 ppm, that for the 1- to 6-foot depth increment is 0.43 ppm, and that for the 0- to 15-foot depth increment is 0.23 ppm. Tables C-9 through C-12 of Appendix C provide a summary of the spatial average PCB calculations for these depth increments. In addition, the maximum PCB concentration in the uppermost foot of unpaved soil is 1.39 ppm, which is well below the applicable NTE level for this type of property. Based on these concentrations, the applicable PCB Performance Standards are already met under existing conditions, and thus no response actions are necessary to address PCBs at this property.

To determine whether an ERE must be sought for this property, GE evaluated whether this property meets the Performance Standards for residential properties. The existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 0.67 ppm (Table C-9) and that for the 1- to X-foot depth increment (which is represented by the 1- to 15-foot depth increment, since PCBs were detected to 15 feet) is 0.20 ppm (Table C-13). Since these concentrations are below the Performance Standards for residential use, there is no need to seek an ERE for this property.

3.4.5 Parcel I8-24-1

Parcel I8-24-1 is a non-GE-owned commercial/industrial property within Phase 1, Group 1B. Based on the PCB soils data available for this parcel, the existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 1.49 ppm, that for the 0- to 3-foot depth increment is 1.05 ppm, that for the 1- to 6-foot depth increment is 0.42 ppm, and that for the 0- to 15-foot depth increment is 0.28 ppm. Tables C-14 through C-17 of Appendix C provide a summary of the spatial average PCB calculations for these depth increments. In addition, the maximum PCB concentration in the uppermost foot of unpaved soil within the property is 14 ppm, which is well below the applicable NTE level for this type of property. Based on these concentrations, the applicable PCB Performance Standards are already met under existing conditions, and thus no response actions are necessary to address PCBs at this property.

To determine whether an ERE must be sought for this property, GE evaluated whether this property meets the Performance Standards for residential properties. The existing spatial average PCB concentration for soils in the 0- to 1-foot depth increment is 1.49 ppm (Table C-14) and that for the 1- to X-foot depth increment (which is represented by the 1- to 15-foot depth increment, since PCBs were detected to 15 feet) is 0.19 ppm (Table C-18). Since these concentrations are below the Performance Standards for residential use, there is no need to seek an ERE for this property.

It should be noted that two riverbank surface soil samples previously collected by EPA -- sample RB010981 (151 ppm) and sample RB011001 (156 ppm) -- contain PCB concentrations that exceed the NTE level for this type of property (125 ppm). Due to their position within either the middle or upper portion of the bank, the Theissen polygons associated with each of these samples marginally extend onto the non-riverbank portions of this property (i.e., the portion of the property associated with the 1½ Mile Floodplain RAAs). Given the location of these EPA samples, the similar levels of PCBs detected in other nearby bank soil samples, and the low levels of PCBs detected in non-bank areas in the immediate vicinity of these samples, it is clear that the presence of the elevated PCB

concentrations represented by the above-mentioned EPA riverbank samples is limited to the bank portions of the property. In this situation, while GE has included these data and their corresponding polygons in the spatial average evaluations, it does not believe that it is necessary to remove any non-riverbank soils on account of these sample results. It is GE's understanding that EPA is currently preparing and finalizing its remedial design for the Phase 1/Phase 2 transition of the 1½ Mile Reach Removal Action. GE anticipates that, based on the results of its remedial evaluations, EPA will address the bank-related NTE areas located along this stretch of river -- i.e., between Lyman Street Bridge and Elm Street Bridge. Accordingly, additional response actions outside the riverbank are not necessary to address the PCB sample results from the riverbank at this property.

3.4.6 Subsurface Utilities

As part of the PCB soil evaluations conducted for each individual property in Phase 1, an evaluation has been made to determine whether soil-related response actions may be needed for existing utilities subject to emergency repair. The available site mapping provided by EPA indicates that there are numerous utilities present throughout the Phase 1, Group 1A and 1B properties. However, since no discrete PCB sample results exceeded 200 ppm, the spatial average concentration for soils within a designated utility band would necessarily be less than the 200 ppm Performance Standard. Also, based on a review of the available data, it is clear that the soils in close proximity to the subsurface utilities would have a spatial average less than 2 ppm, thus indicating that no response actions of any kind are needed. As a result, it is not necessary to conduct a further evaluation of the need for separate response actions for these utility corridors, and hence there is no need for any soil-related response actions at the Phase 1, Group 1A and 1B properties.

4. Evaluation of Need for Pre-Design Investigations for Non-PCB Constituents

As indicated in the PDI Work Plans, GE proposed that, following initial PCB soil investigations for floodplain properties of the 1½ Mile Reach, it would submit a Second PDI Work Plan Addendum that would evaluate the available PCB data, assess the need for soil remediation to address PCBs in soil, and evaluate the need for and scope of supplemental soil sampling for other Appendix IX+3 constituents in soils. As discussed above, GE has completed its pre-design PCB investigations for the Phase 1 properties and has evaluated the PCB data in a manner consistent with the CD and SOW. Based on those evaluations, no response actions are necessary to address PCBs in the property soils.

In addition, GE has evaluated the need for supplemental soil sampling for other Appendix IX+3 constituents. The SOW provides (on pages 69-70) that, “[f]or floodplain properties located downstream of the GE Plant Area, where there are intervening potential sources of non-PCB constituents, GE may exclude from the evaluation [of non-PCB constituents] particular properties (or portions of properties) where response actions are not necessary to address PCBs.” In this case, the properties in Phase 1 of the 1½ Mile Floodplain RAAs are located downstream of the GE Plant Area, there are intervening potential sources of non-PCB constituents (e.g., the Lyman Street Area and Former Oxbow Area C), and no response actions are necessary to address PCBs at these properties. In these circumstances, GE believes that there is no need for additional sampling and/or an evaluation for non-PCB Appendix IX+3 constituents in soil at these properties. Correspondingly, there is no need for a Second Addendum to the PDI Work Plan.

5. Future Activities and Schedule

As discussed in the January 2002 PDI Work Plan, to allow for coordination between any response actions that may be needed for the 1½ Mile Floodplain RAAs and those to be separately conducted by EPA for the sediments and riverbank soils in the same reach of river, GE proposed to conduct the pre-design investigations and subsequent RD/RA activities (if necessary) for the 1½ Mile Floodplain RAAs in the following four phases:

Phase 1 – Lyman Street Bridge to Elm Street Bridge;

Phase 2 – Elm Street Bridge to Dawes Avenue;

Phase 3 – Dawes Avenue to Pomeroy Avenue; and

Phase 4 – Pomeroy Avenue to the Confluence.

As described in this report, for the properties in Phase 1, no PCB-related response actions are necessary to achieve the applicable Performance Standards, and GE believes that there is no need for Appendix IX+3 sampling at these properties. As a result, no further RD/RA evaluations or submittals are needed for the Phase 1 properties. Rather, this report represents the completion of GE's activities associated with Phase 1, Group 1A and 1B properties.

For the remaining phases, consistent with the schedule provided in EPA's July 8, 2002 conditional approval letter, it is anticipated that EPA will advise GE of its likely timing for initiating removal activities for a given phase or stage of the 1½ Mile Reach Removal Action at least 12 months prior to the anticipated commencement date for that phase. Following that notification, GE will submit a proposed schedule for the submission of the Phase- and/or Group-specific Work Plan Addendum for the corresponding section of the floodplain. That schedule will provide for submission of such Addendum at least 10 months prior to the initiation of EPA's removal activities in that section of the 1½ Mile Reach.

Tables

TABLE 1

SUMMARY OF PRE-DESIGN PCB SOIL INVESTIGATIONS

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 (Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
Surface Samples						
1A-SS-1	0-1	11/4/2002	ND(0.038)	1.5	0.74	2.24
1A-SS-2	0-1	11/4/2002	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
1A-SS-3	0-1	11/4/2002	ND(0.044)	0.35	ND(0.044)	0.35
1A-SS-4	0-1	8/22/2002	ND(0.037)	ND(0.037)	0.082	0.082
1A-SS-5	0-1	11/4/2002	ND(0.036)	ND(0.036)	0.34	0.34
1A-SS-6	0-1	11/4/2002	ND(0.042)	ND(0.042)	1.4	1.4
1A-SS-7	0-1	8/22/2002	ND(0.035) [ND(0.036)]	0.33 [0.34]	0.33 [0.33]	0.66 [0.67]
1A-SS-8	0-1	11/4/2002	ND(0.039)	ND(0.039)	0.30	0.30
1A-SS-9	0-1	11/4/2002	ND(0.044)	ND(0.044)	0.74	0.74
1A-SS-10	0-1	10/2/2002	ND(0.053)	0.99	0.40	1.39
1A-SS-11	0-1	10/2/2002	ND(0.050)	0.12	0.070	0.19
1A-SS-12	0-1	8/22/2002	ND(0.036)	0.34	1.2	1.54
1A-SS-13	0-1	10/2/2002	ND(0.050)	0.45	0.27	0.72
1A-SS-14	0-1	10/2/2002	ND(0.046)	0.16	0.082	0.242
1A-SS-15	0-1	8/22/2002	ND(0.036)	0.33	0.57	0.90
1A-SS-16	0-1	2/6/2003	ND(0.048)	0.72	0.58	1.3
1B-SS-1	0-1	10/22/2002	ND(0.048) [ND(0.047)]	0.17 [ND(0.047)]	0.18 [0.21]	0.35 [0.21]
1B-SS-2	0-1	10/22/2002	ND(0.048)	0.092	0.035 J	0.127
1B-SS-3	0-1	10/22/2002	R	0.38 J	0.36 J	0.74 J
1B-SS-4	0-1	10/22/2002	ND(0.049) [ND(0.050)]	ND(0.049) [ND(0.050)]	0.67 [0.95]	0.67 [0.95]
1B-SS-5	0-1	10/22/2002	ND(0.048)	ND(0.048)	0.42	0.42
1B-SS-6	0-1	10/22/2002	ND(0.050)	ND(0.050)	0.98	0.98
1B-SS-7	0-1	10/22/2002	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
1B-SS-8	0-1	10/22/2002	ND(0.052)	0.15	0.12	0.27
1B-SS-9	0-1	10/22/2002	ND(0.050)	ND(0.050)	1.7	1.7
1B-SS-10	0-1	10/22/2002	ND(0.051)	ND(0.051)	0.21	0.21
1B-SS-11	0-1	10/22/2002	ND(0.046)	ND(0.046)	0.17	0.17
1B-SS-12	0-1	10/22/2002	ND(0.047)	ND(0.047)	0.18	0.18
1B-SS-13	0-1	10/22/2002	ND(0.051)	ND(0.051)	0.26	0.26
1B-SS-14	0-1	10/22/2002	ND(0.049)	ND(0.049)	1.4	1.4
1B-SS-15	0-1	10/22/2002	ND(0.044)	ND(0.044)	0.087	0.087
1B-SS-16	0-1	10/22/2002	ND(0.051)	ND(0.051)	1.5	1.5
1B-SS-17	0-1	10/22/2002	ND(0.046)	0.27	0.47	0.74
1B-SS-18	0-1	10/22/2002	ND(0.52)	4.0	10	14
1B-SS-19	0-1	10/22/2002	ND(0.045)	ND(0.045)	0.17	0.17
1B-SS-20	0-1	10/22/2002	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)
Soil Boring Samples						
1A-SB-1	0-1	8/22/2002	ND(0.036)	0.17	0.079	0.249
	1-3	8/22/2002	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	3-6	8/22/2002	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
1A-SB-2	0-1	8/23/2002	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	1-3	8/23/2002	ND(0.41)	4.8	1.6	6.4
	3-5	8/23/2002	ND(0.046)	0.12	0.083	0.203
	5-7	8/23/2002	ND(0.049) J	ND(0.049) J	ND(0.049) J	ND(0.049) J
1A-SB-3	0-1	11/4/2002	ND(0.045)	ND(0.045)	0.73	0.73
	1-3	11/4/2002	ND(0.044) [ND(0.044)]	ND(0.044) [ND(0.044)]	0.090 [0.15]	0.090 [0.15]
	3-5	11/4/2002	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
1A-SB-4	0-1	11/4/2002	ND(0.037)	ND(0.037)	0.54	0.54
	1-3	11/4/2002	ND(0.042)	ND(0.042)	0.23	0.23
	3-5	11/4/2002	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)

TABLE 1

SUMMARY OF PRE-DESIGN PCB SOIL INVESTIGATIONS

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 (Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
Soil Boring Samples						
1A-SB-5	0-1	10/2/2002	ND(0.44)	0.58	ND(0.44)	0.58
	1-3	10/2/2002	R	0.48 J	R	0.48 J
	3-6	10/2/2002	ND(0.046) [ND(0.047)]	0.11 [0.086]	0.040 J [ND(0.047)]	0.15 J [0.086 J]
	6-10	10/2/2002	ND(0.054)	0.20	ND(0.054)	0.20
	10-15	10/2/2002	ND(0.054) J	0.087 J	ND(0.054) J	0.087 J
1A-SB-6	0-1	10/2/2002	ND(0.046)	0.81	ND(0.046)	0.81
	1-3	10/2/2002	ND(0.045)	0.11	0.045 J	0.155
	3-6	10/2/2002	ND(0.046)	0.36	0.17	0.53
	6-10	10/2/2002	ND(0.061)	ND(0.061)	ND(0.061)	ND(0.061)
1A-SB-7	0-1	8/22/2002	ND(0.036)	0.64	1.5	2.14
	1-3	8/22/2002	ND(0.035)	1.0	1.3	2.3
	3-6	8/22/2002	ND(0.036)	0.99	1.2	2.19
	6-10	8/22/2002	ND(0.040) J	0.15 J	0.14 J	0.29 J
	10-15	8/22/2002	ND(0.093) J	ND(0.093) J	ND(0.093) J	ND(0.093) J
1B-SB-1	0-1	10/30/2002	ND(0.039)	0.16	0.25	0.41
	1-3	10/30/2002	ND(0.041)	0.47	0.42	0.89
	3-6	10/30/2002	ND(0.039)	0.21	0.28	0.49
	6-10	10/30/2002	ND(0.055) J	ND(0.055) J	ND(0.055) J	ND(0.055) J
1B-SB-2	0-1	10/30/2002	ND(0.044)	0.42	0.16	0.58
	1-3	10/30/2002	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	3-6	10/30/2002	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
1B-SB-3	0-1	10/21/2002	ND(0.050)	0.19	0.17	0.36
	1-3	10/21/2002	ND(0.045)	0.084	0.094	0.178
	3-6	10/21/2002	ND(0.043)	0.036 J	ND(0.043)	0.036 J
1B-SB-4	0-1	10/21/2002	ND(0.042)	ND(0.042)	0.037 J	0.037 J
	1-3	10/21/2002	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	3-6	10/21/2002	ND(0.044)	ND(0.044)	0.044 J	0.044 J
1B-SB-5	0-1	10/31/2002	ND(0.040)	ND(0.040)	1.1	1.1
	1-3	10/31/2002	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	3-6	10/31/2002	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
1B-SB-6	0-1	10/30/2002	ND(0.40)	2.8	3.1	5.9
	1-3	10/30/2002	ND(0.036)	0.18	0.32	0.50
	3-6	10/30/2002	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
1B-SB-7	0-1	10/30/2002	ND(0.21)	ND(0.21)	2.6	2.6
	1-3	10/30/2002	ND(0.038)	ND(0.038)	0.25	0.25
	3-6	10/30/2002	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
1B-SB-8	0-1	10/31/2002	ND(0.036)	0.64	0.41	1.05
	1-3	10/31/2002	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	10/31/2002	ND(0.037)	ND(0.037)	1.1	1.1
	6-10	10/31/2002	ND(0.037) J	0.040 J	ND(0.037) J	0.040 J
1B-SB-9	0-1	10/31/2002	ND(0.38)	1.8	3.9	5.7
	1-3	10/31/2002	ND(0.035)	ND(0.035)	0.37	0.37
	3-6	10/31/2002	ND(0.045) [ND(0.046)]	ND(0.045) [ND(0.046)]	ND(0.045) [ND(0.046)]	ND(0.045) [ND(0.046)]
1B-SB-10	0-1	10/31/2002	ND(0.039)	0.52	1.2	1.72
	1-3	10/31/2002	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	3-6	10/31/2002	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
1B-SB-11	0-1	10/31/2002	ND(0.035)	0.082	ND(0.035)	0.222
	1-3	10/31/2002	ND(0.037)	ND(0.037)	0.043	0.043
	3-6	10/31/2002	ND(0.041)	ND(0.041)	0.34	0.34
	6-10	10/31/2002	ND(0.038) J	ND(0.038) J	ND(0.038) J	ND(0.038) J

TABLE 1

SUMMARY OF PRE-DESIGN PCB SOIL INVESTIGATIONS

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 (Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
Soil Boring Samples (continued)						
1B-SB-12	0-1	10/23/2002	ND(0.044)	ND(0.044)	0.17	0.17
	1-3	10/23/2002	ND(0.044) [ND(0.044)]	ND(0.044) [ND(0.044)]	ND(0.044) [ND(0.044)]	ND(0.044) [ND(0.044)]
	3-6	10/23/2002	ND(0.047)	ND(0.047)	0.11	0.11
	6-10	10/23/2002	ND(0.041)	ND(0.041)	0.56	0.56
	10-15	10/23/2002	ND(0.041) J	ND(0.041) J	ND(0.041) J	ND(0.041) J
1B-SB-13	0-1	10/23/2002	ND(0.049)	ND(0.049)	0.30	0.30
	1-3	10/23/2002	ND(0.050)	ND(0.050)	0.73	0.73
	3-6	10/23/2002	ND(0.045)	ND(0.045)	0.13	0.13
	6-10	10/23/2002	ND(0.038)	ND(0.038)	0.081	0.081
	10-15	10/23/2002	ND(0.051) J	ND(0.051) J	ND(0.051) J	ND(0.051) J

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics

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

TABLE 2

SUMMARY OF SELECT LYMAN STREET AREA PRE-DESIGN PCB SOIL INVESTIGATIONS

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 (Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA12-AA4	0-1	8/15/2002	ND(0.036)	0.15	0.072	0.222
RAA12-Y2	0-1	8/14/2002	ND(0.035)	0.65	0.49	1.14
RAA12-Z4	0-1	8/21/2002	ND(0.38)	0.70	1.6	2.3
	1-3	8/21/2002	ND(0.36)	ND(0.36)	0.43	0.43
	3-6	8/21/2002	ND(0.045)	0.27	0.24	0.51
	6-10	8/21/2002	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	10-15	8/21/2002	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

Data Qualifiers:

Organics

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

TABLE 3

HISTORICAL PCB SOIL SAMPLING DATA

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 (Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Total PCBs
I8-24-5A	0 - 0.5	8/24/1992	38
I8-24-5B	0 - 0.5	1/7/1993	0.66
	0.5 - 1	1/7/1993	0.67
I8-24-5C	0 - 0.5	1/7/1993	2.1
	0.5 - 1	1/7/1993	0.78
BS000164	0 - 1	2/8/2001	5.3 J
	1 - 2	2/8/2001	0.43 J
	2 - 3	2/8/2001	0.29 J
BS000165	0 - 1	2/8/2001	1.3 J
	1 - 2	2/8/2001	0.74 J
	2 - 3	2/8/2001	0.25 J[0.24 J]
BS000166	0 - 1	2/8/2001	4.6 J
	1 - 2	2/8/2001	0.15 J
	2 - 3	2/8/2001	0.024 J
BS000167	0 - 1	2/8/2001	2.3 J
	1 - 2	2/8/2001	0.15 J
	2 - 3	2/8/2001	0.3 J
RB010981	0 - .5	6/19/2000	151 J
	1 - 1.5	6/19/2000	16.2
	2 - 2.5	6/19/2000	8.47 J
RB010982	0 - .5	6/19/2000	39 J
	1 - 1.5	6/19/2000	42.6 J
RB011001	0 - .5	6/19/2000	156
	1 - 1.5	6/19/2000	28
	2 - 2.5	6/19/2000	43
RB011021	0 - .5	6/16/2000	27.8 J
	1 - 1.5	6/16/2000	58.4 J
	2 - 2.5	6/16/2000	118 J
RB011041	0 - .5	6/16/2000	5.3
	1 - 1.5	6/16/2000	3.01 J
	2 - 2.5	6/16/2000	3.61 J
RB021061	0 - .5	6/15/2000	4.22 J
	1 - 1.5	6/15/2000	3.39 J
	2 - 2.5	6/15/2000	1.22 J

Notes:

1. Sample data obtained from USEPA database entitled "120601_usepa_hr_dbase1.mdb" and GE database entitled "hr121201.mdb".
2. Duplicate results presented in brackets.

Data Qualifiers:Organics

J - Indicates estimated value less than the CLP-required quantitation limit.

TABLE 4

EPA PRE-DESIGN PCB SOIL SAMPLING DATA

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 (Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
H2-BH000860-0-0080	8- 8.6	11/4/2002	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)

Notes:

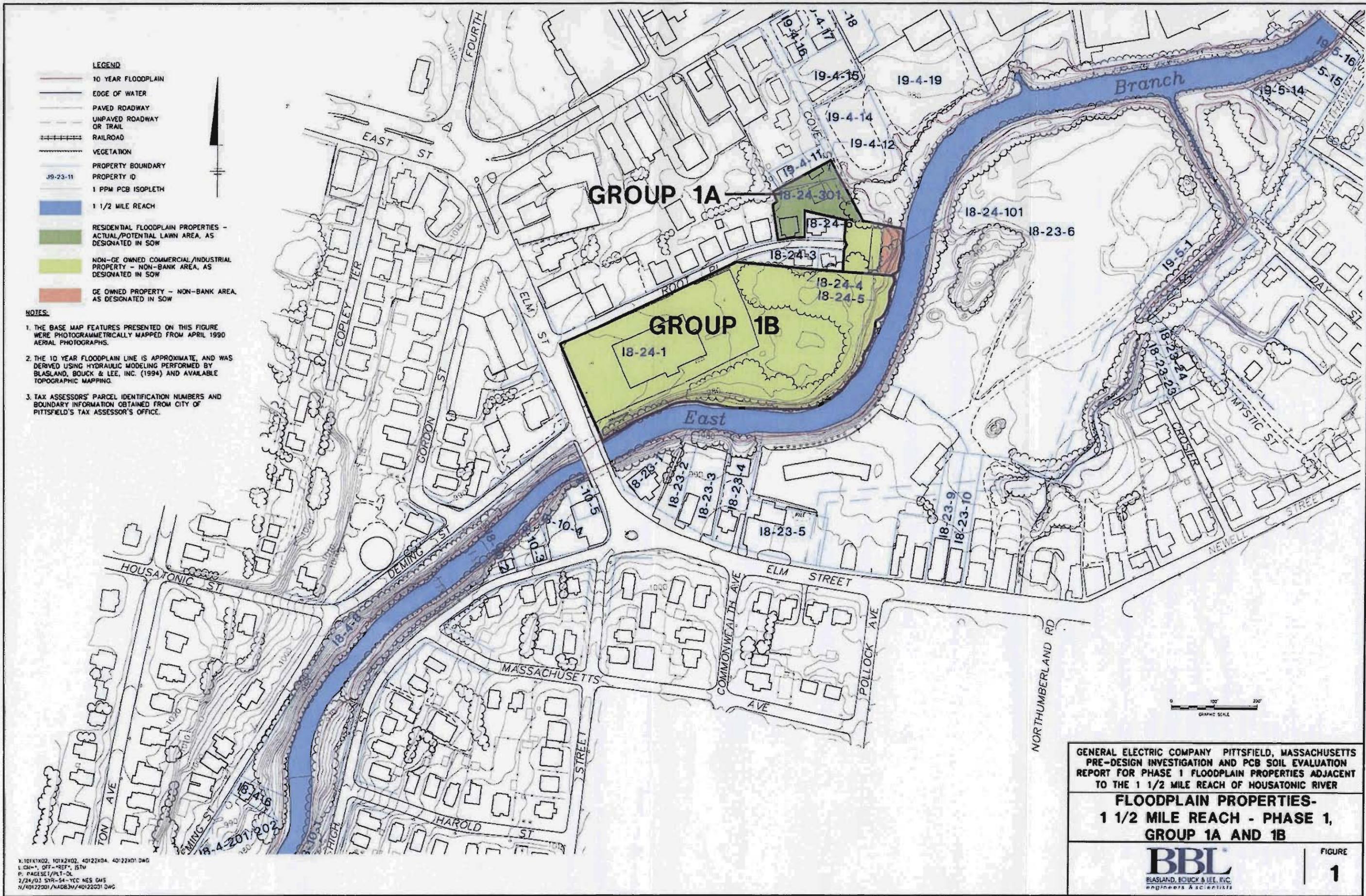
1. Sample was collected by Weston Solutions, Inc. and submitted for analysis of PCBs.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
3. This sample location corresponds to GE pre-design sample location 1A-SB-4.

Figures

- LEGEND**
- 10 YEAR FLOODPLAIN
 - EDGE OF WATER
 - PAVED ROADWAY
 - UNPAVED ROADWAY OR TRAIL
 - RAILROAD
 - VEGETATION
 - PROPERTY BOUNDARY
 - PROPERTY ID
 - 1 PPM PCB ISOPLETH
 - 1 1/2 MILE REACH
 - RESIDENTIAL FLOODPLAIN PROPERTIES - ACTUAL/POTENTIAL LAWN AREA, AS DESIGNATED IN SOW
 - NON-GE OWNED COMMERCIAL/INDUSTRIAL PROPERTY - NON-BANK AREA, AS DESIGNATED IN SOW
 - GE OWNED PROPERTY - NON-BANK AREA, AS DESIGNATED IN SOW

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.
3. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE.



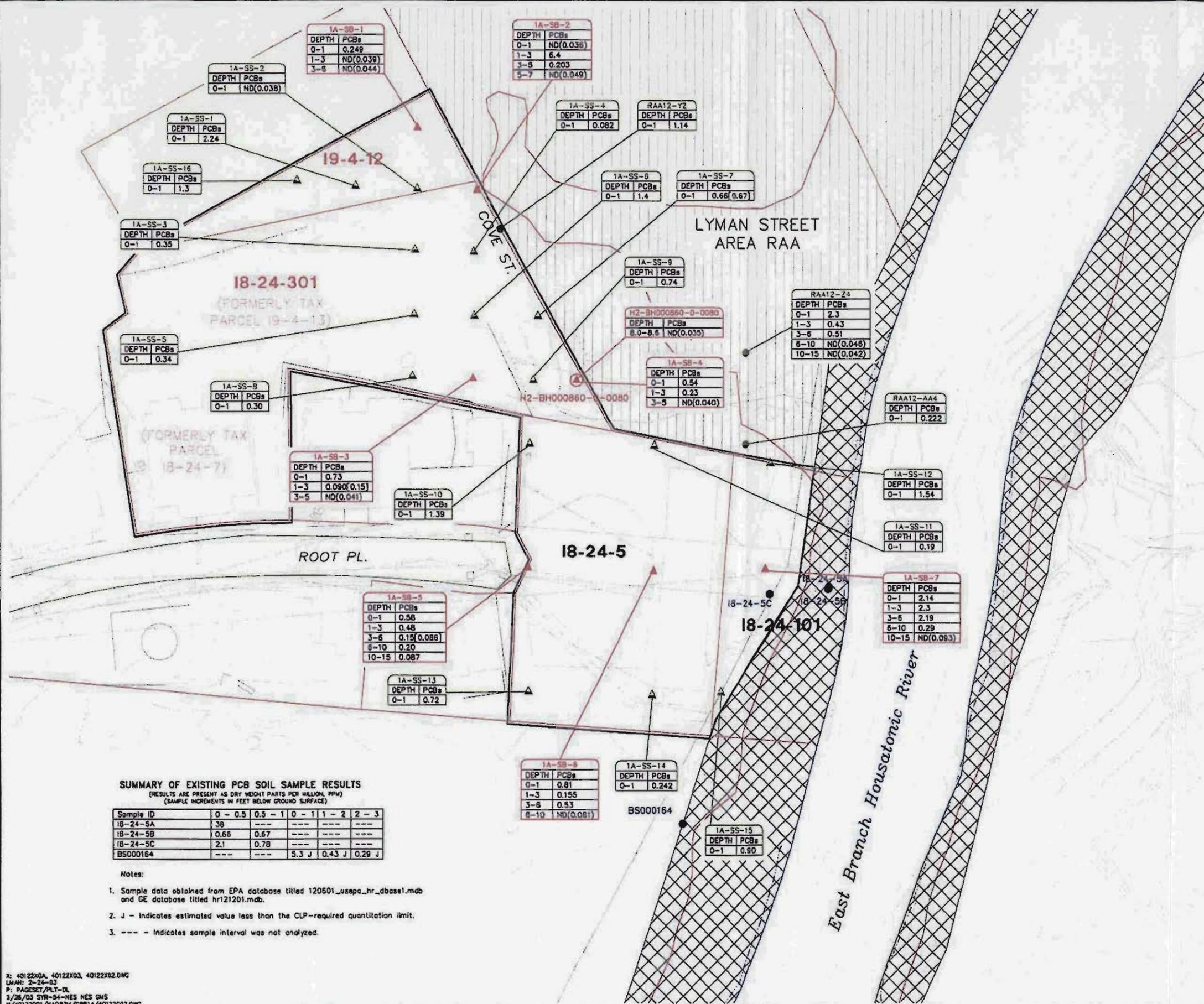
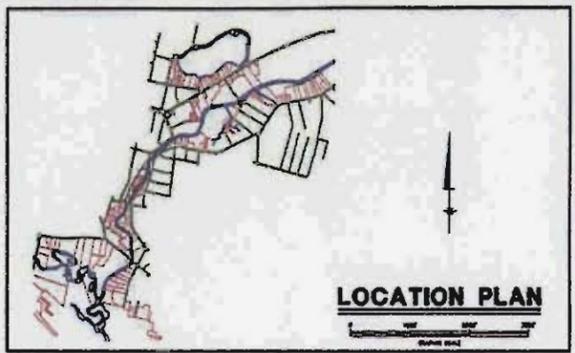
GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**FLOODPLAIN PROPERTIES-
 1 1/2 MILE REACH - PHASE 1,
 GROUP 1A AND 1B**

BBL
 BLASLAND, BOUCK & LEE, INC.
 ENGINEERS & SCIENTISTS

FIGURE
1

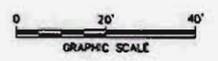
X:101X102, 101X202, 40122X04, 40122X01 DAG
 L:CM*, OFF-REF*, ISTV
 P: PAGE 1/PLT-DL
 7/24/03 SWR-54-YCC NES CHS
 H/4012201/NAD83/4012201 DAG



LEGEND

- APPROXIMATE PARCEL BOUNDARY
- FENCELINE
- 18-24-301 RESIDENTIAL PROPERTY PARCEL ID
- 18-24-5 NON-RESIDENTIAL PROPERTY PARCEL ID
- 18-24-5C EXISTING SOIL BORING LOCATION
- ▲ PRE-DESIGN SURFACE SOIL SAMPLE LOCATION
- ▲ PRE-DESIGN SOIL BORING LOCATION
- LYMAN STREET AREA RAA PRE-DESIGN SAMPLE LOCATION
- EPA PRE-DESIGN SAMPLE LOCATION
- H2-BH000860-0-0080
- BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SDW (FOR GROUP 1A)
- 10 YEAR FLOODPLAIN
- AREA TO BE ADDRESSED BY EPA IN 1/2 MILE REACH REMOVAL AREA

- NOTES:**
- THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 - PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 - THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1984) AND AVAILABLE TOPOGRAPHIC MAPPING.
 - PCB CONCENTRATIONS ARE REPORTED IN MG/KG.



SUMMARY OF EXISTING PCB SOIL SAMPLE RESULTS
 (RESULTS ARE PRESENT AS DRY WEIGHT PARTS PER MILLION, PPM)
 (SAMPLE INCREMENTS IN FEET BELOW GROUND SURFACE)

Sample ID	0 - 0.5	0.5 - 1	0 - 1	1 - 2	2 - 3
18-24-5A	38	---	---	---	---
18-24-5B	0.66	0.67	---	---	---
18-24-5C	2.1	0.78	---	---	---
BS000164	---	---	5.3 J	0.43 J	0.29 J

- Notes:**
- Sample data obtained from EPA database titled 120601_usepa_hr_dbasel.mdb and GE database titled hr121201.mdb.
 - J - Indicates estimated value less than the CLP-required quantitation limit.
 - - Indicates sample interval was not analyzed.

1A-SB-6

DEPTH	PCBs
0-1	0.81
1-3	0.155
3-6	0.53
6-10	ND(0.081)

1A-SS-14

DEPTH	PCBs
0-1	0.242

1A-SS-15

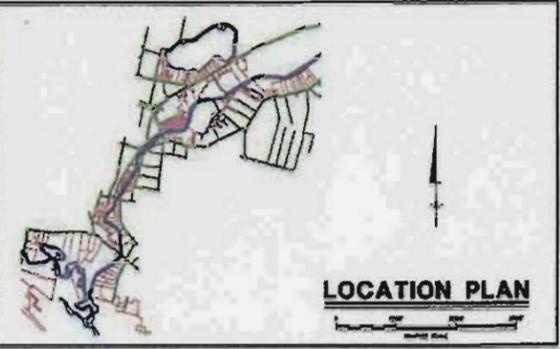
DEPTH	PCBs
0-1	0.90

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

SUMMARY OF SOIL SAMPLING LOCATIONS FOR PHASE 1, GROUP 1A



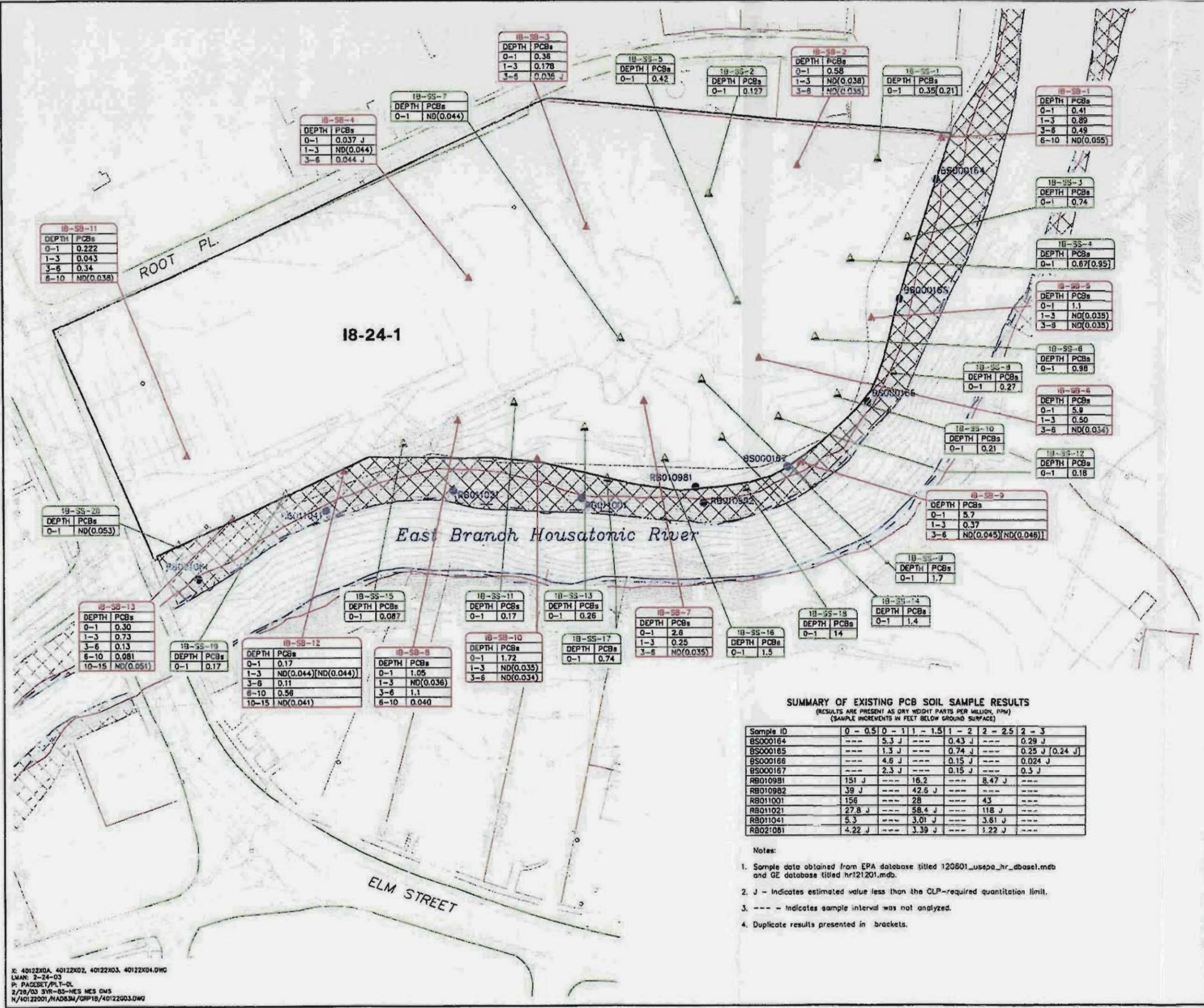
R: 40122X0A, 40122X03, 40122X02.DWG
 LWJH: 2-26-03
 P: PAGESET/PLT-DL
 2/26/03 SVR-54-NES NES GMS
 H:\40122001\NAD83M\GRP1A\40122003.DWG



LOCATION PLAN

- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - - - FENCELINE
 - 18-24-1 NON-RESIDENTIAL PROPERTY PARCEL ID
 - RB010981 ● EXISTING SOIL BORING LOCATION
 - ▲ PRE-DESIGN SURFACE SOIL SAMPLE LOCATION
 - ▲ PRE-DESIGN SOIL BORING LOCATION
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOH (FOR GROUP 1B)
 - 10 YEAR FLOODPLAIN
 - ▨ AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY MESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.
 4. PCB CONCENTRATIONS ARE REPORTED IN MG/KG.



SUMMARY OF EXISTING PCB SOIL SAMPLE RESULTS

(RESULTS ARE PRESENT AS DRY WEIGHT PARTS PER MILLION, PPM)
(SAMPLE INCREMENTS IN FEET BELOW GROUND SURFACE)

Sample ID	0 - 0.5	0 - 1	1 - 1.5	1 - 2	2 - 2.5	2 - 3
BS000164	---	5.3 J	---	0.43 J	---	0.29 J
BS000165	---	1.3 J	---	0.74 J	---	0.25 J (0.24 J)
BS000166	---	4.6 J	---	0.15 J	---	0.024 J
BS000167	---	2.3 J	---	0.15 J	---	0.5 J
RB010981	151 J	---	16.2	---	8.47 J	---
RB010982	39 J	---	42.6 J	---	---	---
RB011001	156	---	28	---	43	---
RB011021	27.8 J	---	58.4 J	---	118 J	---
RB011041	5.3	---	3.01 J	---	3.61 J	---
RB021081	4.22 J	---	3.39 J	---	1.22 J	---

- Notes:**
1. Sample data obtained from EPA database titled 120801_uscpa_hr_dbasel.mdb and GE database titled hr121201.mdb.
 2. J - Indicates estimated value less than the CLP-required quantitation limit.
 3. --- indicates sample interval was not analyzed.
 4. Duplicate results presented in brackets.



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

SUMMARY OF SOIL SAMPLING LOCATIONS FOR PHASE 1, GROUP 1B



Appendix A

Soil Boring Logs

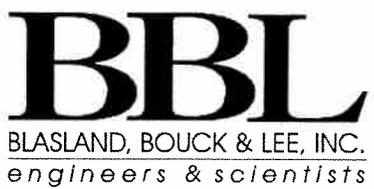
Date Start/Finish: 8/22/02
 Drilling Company: BBL
 Driller's Name: GAR/JAB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 912082.2775
 Easting: 56644.8675
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 979.5713
 Descriptions By: GAR

Boring ID: 1A-SB-01
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I9-4-12

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
980								
		1	0-1		0.0		Brown fine SAND and SILT.	
		2	1-3		0.0		Dark brown to black FILL consisting of Cinders, Ash, Slag, and Brick.	
				3.7				
975		3	3-5		0.0			
		4	6-8	1.2	0.0			
		5	8-10	1.2	0.0		Dark brown to black fine to medium SAND, staining.	
970		6	10-12	1.2	0.0		Brown PEAT, groundwater at 12' bgs.	
		7	12-15	2.1	0.0		Gray fine to medium SAND, wet.	
965								
15								

Borehole backfilled with Bentonite.

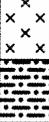


Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

Date Start/Finish: 8/23/02
 Drilling Company: BBL
 Driller's Name: GAR/JAB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 912179.3077
 Easting: 56699.5179
 Casing Elevation: NA
 Borehole Depth: 9.0' below grade
 Surface Elevation: 979.3167
 Descriptions By: GAR

Boring ID: 1A-SB-02
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel 18-24-301

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
980								
		1	0-1	2.0	0.0		Light brown fine SAND.	
		2	1-3	0.2			Gray FILL consisting of Cinders, Ash, and Brick.	
975		3	3-5	1.4	0.6		Gray-brown FILL consisting of Cinders, Ash, Slag, and Brick.	
		4	5-7	1.4	0.4			
		5	7-9	1.6	1.8		Dark brown to black stained SILT and PEAT.	
970								
10								
965								
15								



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-5', and 5-7'.

Date Start/Finish: 11/4/02
 Drilling Company: BBL
 Driller's Name: SLL, NR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56706.49
 Easting: 912148.5783
 Casing Elevation: NA

Boring ID: 1A-SB-03
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-301

Borehole Depth: 9.0' below grade
 Surface Elevation: 980.9
 Descriptions By: SLL

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0								
980		1	0-1	2.0	8.7*		Dark brown fine SAND and SILT, little coarse Sand, trace Organics, moist.	
		2	1-3		20.9*		Dark brown SAND and SILT, some Coal and Ash, moist.	
		3	3-5	7.6*		Dark brown fine SAND and medium SAND, some Silt, trace fine Gravel.		
5		4	5-7	599.2*		Brown SAND, ASH, COAL, trace Gravel, moist.		
975		5	7-9	0.8	86*		Brown fine SAND, some Silt, moist.	
10								
970								
15								
965								

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-5'. Duplicate sample IA-DUP-6 collected from 1-3' bgs for PCBs. MS/MSD collected from 3-5' bgs for PCBs.
 * PID meter may not be working properly.

Date Start/Finish: 11/4/02
 Drilling Company: BBL
 Driller's Name: NJR/JTG
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56717.3559
 Easting: 912148.3342
 Casing Elevation: NA
 Borehole Depth: 9.0' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1A-SB-04
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel 18-24-301

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
1		1	0-1	2.5	164*		Brown SILT, little Gravel, trace fine Sand, trace Organics, trace Coal.	
2		2	1-3		40*		Brown SILT, little Gravel, trace fine Sand, trace Organics, trace Glass and Brick.	
3		3	3-5	2.2	*	Light brown-gray SILT with fine Sand, little Gravel.		
4		4	5-7		*	Black SILT with fine Sand, trace paper.		
5		5	7-9		0.6	*	Orange-brown SILT with fine Sand, trace Brick, little Gravel.	
5		5	7-9	0.6	*	Light brown to gray GRAVEL, some Silt and fine Sand.		
10	10							
15	15							

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-5'.
 * = PID may not be working properly.
 Sample taken by Weston just below 9' bgs.

Date Start/Finish: 10/2/02
 Drilling Company: BBL
 Driller's Name: JJB/JAB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56713.3637
 Easting: 912125.3804
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 981.7
 Descriptions By: JJB

Boring ID: 1A-SB-05
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Pacer 18-24-5

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
8		1	0-1		0.0		Light brown fine SAND, some fine to medium Gravel, dry. Trace Brick below 0.4' bgs.	
980		2	1-3	3.2	0.0	x x x x	FILL consisting of Coal and Ash, little fine Sand.	
		3	3-4		0.0	x x x x		
5		4	4-6		0.0		Black fine SAND, some Silt, trace fine Gravel, moist.	
975		5	6-8	3.9	0.0		Gray fine SAND and SILT, moist.	
10		6	8-10		0.0			
		7	10-12	2.0	0.0		Gray fine SAND, wet.	
970								
		8	12-15	3.0	0.0			
15								

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', 6-10' and 10-15'.
 Duplicate sample 1A-DUP-2 collected from 3-6' bgs for PCBs.
 MS/MSD collected from 1-3' bgs for PCBs.

Date Start/Finish: 10/2/02
 Drilling Company: BBL
 Driller's Name: JJB/JAB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56728.7904
 Easting: 912124.9049
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 981.5
 Descriptions By: JJB

Boring ID: 1A-SB-06
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel 18-24-5

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0								
	980	1	0-1		0.0		Light brown fine SAND, some fine to medium Gravel, dry. Trace Brick below 0.6' bgs.	
		2	1-3	2.2	0.0		BRICK. FILL consisting of Coal and Ash.	
		3	3-4		0.0			
5		4	4-6		28.2		Brown fine SAND, some fine to medium Gravel, some Fill consisting of Coal, Ash, and Brick.	
	975	5	6-8		65.5			
		6	8-10		58.1		Gray fine SAND and SILT, strong petroleum odor, moist.	
10		7	10-12		16.6			
	970	8	12-15	2.5	39.5		Gray SAND, some fine to medium Gravel, wet.	
15								

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', and 6-10'.

Date Start/Finish: 8/22/02
 Drilling Company: BBL
 Driller's Name: GAR/JAB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 912125.1817
 Easting: 56742.9608
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 980.4954
 Descriptions By: GAR

Boring ID: 1A-SB-07
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-101

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
8	980	1	0-1	0.1			Dark brown SILT.	
		2	1-3	0.0			Light brown SILT with fine Sand, some Gravel.	
		3	3-5	0.1	4.4		Light brown SILT, some fine Sand.	
5	975	4	6-8	1.2	0.0		Brown fine SAND and Debris consisting of Brick, Cinders, and Ash.	
		5	8-10	1.1	1.7		Black pieces of WOOD.	
10	970	6	10-12	1.0	0.6		Black oil saturated fine SAND and SILT, petroleum odor, groundwater at 12' bgs.	
		7	12-15	1.6	8.0		Black oil saturated fine SAND and SILT, petroleum odor, groundwater at 12' bgs.	
15	965							

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', 6-10' and 10-15'.

Date Start/Finish: 10/30/02
 Drilling Company: BBL
 Driller's Name: NJR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56733.9004
 Easting: 912104.2346
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1B-SB-01
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
		1	0-1		0.0		Dark brown fine SAND, some Silt, some fine Gravel, trace Organics, dry.	
		2	1-3	2.8	0.0		Brown fine SAND with Silt, Organics, some medium Gravel, dry.	
		3	3-5		0.0		Dark brown fine SAND, some Silt, some fine Gravel, trace Organics, dry. Light brown color below 4.6' bgs.	
				2.5			Brown fine SAND, some Silt, dry.	
		4	6-8		0.0			
		5	8-10		0.0		Dark brown fine SAND, moist.	
		6	10-12		0.0			
				3.3				
		7	12-15		0.0			
15	15						Light brown fine to medium SAND and fine to medium GRAVEL, wet.	

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', and 6-10'.

Date Start/Finish: 10/30/02
 Drilling Company: BBL
 Driller's Name: NJR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56697.8962
 Easting: 912097.4025
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1B-SB-02
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0	1	0-1		0.0		Dark brown fine SAND with Silt, Organics, some fine Gravel, dry.	
2		2	1-3	3.0	0.0		Brown fine to medium SAND, trace Organics, some fine to medium Gravel, dry.	
3		3	3-4		0.0		Brown fine to medium SAND, some fine to medium Gravel, dry.	
5	5	4	4-6		0.0		Light brown fine to medium SAND, some fine Gravel, dry.	
5		5	6-8	3.7	0.0		Light brown fine SAND and fine to medium GRAVEL, dry.	
6		6	8-10		0.0		Dark brown fine SAND, moist.	
10	10	7	10-12	2.0	0.0		Brown fine to medium SAND, moist.	
15	15	8	12-15	2.7	0.0			

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

Date Start/Finish: 10/21/02
 Drilling Company: BBL
 Driller's Name: JJB/JAB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 912082.2775
 Easting: 56644.8675
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 985.3171
 Descriptions By: JJB

Boring ID: 1B-SB-03
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
8	985	1	0-1	0.0			Dark brown fine SAND, little Silt, trace fine to medium Gravel, trace Organics.	
		2	1-3	2.7	0.0		Light brown fine SAND, little fine to medium Gravel.	
		3	3-4	0.0			Gray-brown fine SAND, some Fill consisting of Coal, Ash, Brick, and Glass.	
5	980	4	4-6	0.0				
		5	6-8	2.0	0.0			
		6	8-10	0.0			FILL consisting of Coal, Ash, and Slag.	
10	975	7	10-12	0.0			Dark brown fine SAND, some Silt, trace fine to medium Gravel, moist.	
		8	12-15	2.3	0.0		Dark brown PEAT, moist.	
15	970						Gray-brown fine SAND and SILT, wet.	

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

Date Start/Finish: 10/31/02
 Drilling Company: BBL
 Driller's Name: JJB/JAB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56615.2802
 Easting: 912069.6383
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 987.0381
 Descriptions By: JJB

Boring ID: 1B-SB-04
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	987							
0		1	0-1		0.0		ASPHALT. Light brown fine SAND, little fine to medium Gravel.	
0	985	2	1-3	2.8	0.0		Black fine to medium SAND, trace Fill consisting of Coal, Slag, and Ash.	
		3	3-4		0.0		Orange-brown fine SAND.	
5		4	4-6		0.0		Brown fine SAND, some Silt, moist.	
				3.8				
	980	5	6-8		0.0		Orange-brown fine SAND and SILT, wet.	
		6	8-10		0.0		Gray-brown fine to coarse SAND, little fine to medium Gravel, wet.	
10				3.4				
		7	10-12		0.0			
	975							
		8	12-15	2.7	0.0			
15								

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

Date Start/Finish: 10/31/02
Drilling Company: BBL
Driller's Name: NJR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: Macrocore

Northing: 56716.4351
Easting: 912059.7671
Casing Elevation: NA
Borehole Depth: 15' below grade
Surface Elevation: NA
Descriptions By: NJR

Boring ID: 1B-SB-05
Client: General Electric Company
Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
1		1	0-1	2.84	0.0		Dark brown fine SAND, trace Silt, moist.	Borehole backfilled with Bentonite.
2		2	1-3	0.0	0.0		Brown fine SAND, trace Silt, moist.	
3		3	3-4	0.0	0.0		Dark brown fine SAND, trace Silt, trace Gravel, moist.	
4		4	4-6	1.9	0.0		Brown fine SAND, trace Silt, trace Gravel, dry.	
5	5	5	6-8	0.0	0.0		Tan fine SAND and medium GRAVEL, dry.	
6		6	8-10	3.2	0.0		Brown fine SAND and SILT, some Gravel, dry.	
7	10	7	10-12	0.0	0.0		Light gray fine to coarse SAND, little Cobbles, dry.	
8		8	12-15	3.03	0.0		Brown fine to coarse SAND, little Gravel, trace Glass, dry.	
15	15						Light brown fine to coarse SAND, trace Gravel, dry.	
							Dark brown PEAT with Silt, moist.	
							Gray fine SAND with Silt, trace coarse Sand, wet.	



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

Date Start/Finish: 10/30/02
 Drilling Company: BBL
 Driller's Name: NJR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56688.0179
 Easting: 912049.7085
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1B-SB-06
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 0								
		1	0-1		0.0		Brown fine SAND, some fine to medium Gravel, dry.	
		2	1-3	3.2	0.0			
		3	3-4		0.0			
5 5		4	4-6		0.0		Dark brown fine SAND with fine to medium GRAVEL, dry.	
		5	6-8	2.6	0.0			
		6	8-10		0.0		Dark brown fine SAND, moist.	
10 10				2.0			No Description Available.	
		7	10-12		0.0			
		8	12-15	3.0	0.0			
15 15								

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

Date Start/Finish: 10/30/02
 Drilling Company: BBL
 Driller's Name: NJR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 5669.0171
 Easting: 912039.065
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1B-SB-07
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
1		1	0-1		0.0		Brown fine SAND with Silt, some fine to medium Gravel, dry.	
2		2	1-3	2.9	0.0		Dark brown fine SAND, some fine to medium Gravel, dry.	
3		3	3-4		0.0			
4	5	4	4-6		0.0		Brown fine SAND, some fine to medium Gravel, dry.	
5		5	6-8	3.1	0.0		Dark brown fine SAND and fine to medium GRAVEL, dry.	
6		6	8-10		0.0		Dark brown to brown color below 8.0' bgs.	
7	10	7	10-12	3.0	0.0		Dark brown fine SAND, moist.	
8		8	12-15	3.0	0.0			
15	15							



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

Date Start/Finish: 10/31/02
 Drilling Company: BBL
 Driller's Name: NJR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56612.3583
 Easting: 912034.2862
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1B-SB-08
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
		1	0-1		0.0		Dark brown fine SAND with Silt, trace Organics, dry.	
		2	1-3	2.7	0.0		Brown fine to medium SAND, some fine Gravel, dry.	
		3	3-4		0.0		Brown fine to medium SAND, some fine to medium Gravel, dry.	
5	5	4	4-6		0.0			
		5	6-8	2.3	0.0			
		6	8-10		0.0		Dark brown to black fine to medium SAND and fine to medium GRAVEL, dry.	
10	10	7	10-12	2.2	0.0			
		8	12-15	1.8	0.0		Dark brown, many Organics, some fine Sand and Silt, cedar mulch odor.	
15	15							

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', and 6-10'.

Date Start/Finish: 10/31/02 Drilling Company: BBL Driller's Name: NJR Drilling Method: Direct Push Auger Size: NA Rig Type: Bach Jack Hammer Sample Method: Macrocore	Northing: 56698.4733 Easting: 912023.7471 Casing Elevation: NA Borehole Depth: 15' below grade Surface Elevation: NA Descriptions By: NJR	Boring ID: 1B-SB-09 Client: General Electric Company Location: Phase 1 - 1 1/2 Mile Reach Parcel I8-24-1
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
		1	0-1		0.0	[Pattern]	Dark brown fine SAND and SILT, trace Roots, Topsoil, moist.	[Shaded Column] Borehole backfilled with Bentonite.
		2	1-3	2.0	0.0		Brown fine SAND, little medium to coarse Sand, little fine to medium Gravel, dry.	
		3	3-4		0.0			
5	5	4	4-6		0.0	[Pattern]	Brown fine SAND, with Brick, Gravel, and Nails.	
		5	6-8	2.2	0.0		Dark brown SILT with Peat.	
		6	8-10		0.0	[Pattern]	Dark gray fine to coarse SAND, moist.	
10	10	7	10-12		0.0			
		8	12-15		0.0	[Pattern]	Light gray fine to coarse SAND, trace Silt and fine to medium Gravel, wet.	
15	15							



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'. Duplicate sample 1B-DUP-5 collected from 3-6' bgs for PCBs.

Date Start/Finish: 10/31/02
 Drilling Company: BBL
 Driller's Name: NJR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56632.3621
 Easting: 912024.7425
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1B-SB-10
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel 18-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0	1	0-1	0.0			Dark brown fine SAND, trace Silt, moist.	Borehole backfilled with Bentonite.
		2	1-3	2.5	0.0		Brown fine SAND, trace Silt and medium Gravel, dry.	
		3	3-4	0.0			Brown fine SAND and SILT, some medium Gravel, dry.	
5	5	4	4-6	0.0			Gray coarse GRAVEL, some fine Sand, dry.	
		5	6-8	2.75	0.0		Tan fine SAND, trace Gravel, dry.	
		6	8-10	0.0			Tan to white fine SAND, dry.	
		7	10-12	2.0	0.0		Brown fine SAND, some fine Gravel, dry.	
10	10	8	12-15	0.5	0.0		Brown fine SAND and medium GRAVEL, dry.	
							Dark brown to tan fine SAND, Slag, and Calcified Material, moist.	
							Dark brown fine to medium SAND, trace Gravel, wet to saturated.	
15	15						Brown SILT and CLAY, trace Slag, saturated.	



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', and 3-6'.

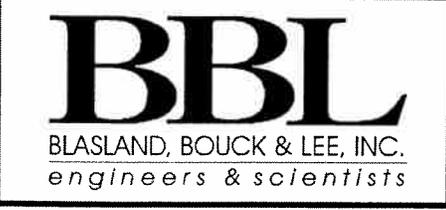
Date Start/Finish: 10/31/02
 Drilling Company: BBL
 Driller's Name: NJR
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56544.03
 Easting: 912025.6158
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: NJR

Boring ID: 1B-SB-11
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel 18-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
		1	0-1		0.0		Black Top.	
		2	1-3	2.5	0.0		Dark brown fine to medium SAND, trace Organics. some fine to medium Gravel, dry.	
		3	3-4		0.0		Dark brown to black fine SAND, some fine to medium Gravel, dry.	
5	5	4	4-6		0.0		Brown fine to medium SAND, some fine Gravel, dry.	
		5	6-8	2.7	0.0			
		6	8-10		0.0		Brown to olive fine SAND, some fine Gravel, moist.	
10	10	7	10-12		0.0			
		8	12-15	2.0	0.0			
15	15							

Borehole backfilled with Bentonite.



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', and 6-10'.

Date Start/Finish: 10/23/02
 Drilling Company: BBL
 Driller's Name: MPH
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: Macrocore

Northing: 56583.8082
 Easting: 912021.7551
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: NA
 Descriptions By: MPH

Boring ID: 1B-SB-12
 Client: General Electric Company
 Location: Phase 1 - 1 1/2 Mile Reach
 Parcel I8-24-1

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
		1	0-1		0.0	[Dotted pattern]	Light brown fine SAND, dry.	[Vertical shaded bar] Borehole backfilled with Bentonite.
		2	1-3	2.7	0.0			
		3	3-4		0.0			
5	5	4	4-6		0.0	[Dotted pattern]	Medium dark brown fine to medium SAND, trace subangular Gravel, some Wood, dry.	
		5	6-8	2.0	0.0			
		6	8-10		0.1	[Dotted pattern]	Dark brown fine to medium SAND, trace subrounded Gravel, moist.	
10	10	7	10-12		0.0		Dark brown medium to coarse SAND, trace medium subangular Gravel, moist.	
		8	12-15	1.7	0.1		Dark brown medium to coarse SAND, trace subrounded Gravel, trace bone-like fragments, moist.	
15	15							



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', 6-10' and 10-15'.
 Duplicate sample 1B-DUP-4 collected from 1-3' bgs for PCBs.
 MS/MSD collected from 3-6' for PCBs.

Date Start/Finish: 10/23/02 Drilling Company: BBL Driller's Name: MPH/JDB Drilling Method: Direct Push Auger Size: NA Rig Type: Tractor-mounted Power Probe Sample Method: Macrocore	Northing: 56555.4628 Easting: 912010.0721 Casing Elevation: NA Borehole Depth: 15' below grade Surface Elevation: NA Descriptions By: MPH	Boring ID: 1B-SB-13 Client: General Electric Company Location: Phase 1 - 1 1/2 Mile Reach Parcel 18-24-1
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0							
		1	0-1		0.0	[Dotted pattern]	Dark brown fine SAND, trace Organics, medium subangular Gravel, dry.	Borehole backfilled with Bentonite.
		2	1-3	2.8	0.0			
		3	3-4		0.0			
5	5	4	4-6		0.0	[Dotted pattern]	Light brown fine SAND, trace subrounded Gravel, dry.	
				2.5			Dark brown fine to medium SAND, dry.	
		5	6-8		0.0			
		6	8-10		0.0	[Dotted pattern]	Black medium to coarse SAND, some Fill, moist.	
10	10	7	10-12		0.0			
				2.2				
		8	12-15	2.1	0.1	[Dotted pattern]	Black fine SAND, strong petroleum odor, wet.	
15	15							



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: PCBs: 0-1', 1-3', 3-6', 6-10' and 10-15'.

Appendix B

Soil Sampling Data Validation Report

**APPENDIX B
SOIL SAMPLING DATA VALIDATION REPORT
PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT
FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1½ MILE REACH OF HOUSATONIC RIVER**

GENERAL ELECTRIC COMPANY – PITTSFIELD, MASSACHUSETTS

1.0 General

This Appendix summarizes the Tier I and Tier II data reviews performed for soil samples collected as part of pre-design investigations for those properties in Phase 1 of the 1 ½ Mile Reach of Housatonic River. Data validation was performed for 125 samples which were analyzed for polychlorinated biphenyls (PCBs) by CT&E Environmental Services, Inc. of Charleston, West Virginia.

2.0 Data Evaluation Procedures

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

- *Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts*, Blasland, Bouck & Lee, Inc. ([BBL]; FSP/QAPP, approved November 4, 2002 and resubmitted December 10, 2002);
- *Region I Tiered Organic and Inorganic Data Validation Guidelines*, USEPA Region I (July 1, 1993);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (February 1, 1988) (Modified November 1, 1988);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 1996); and

A tabulated summary of the Tier I and Tier II data evaluations is presented in Table B-1. Each sample subjected to evaluation is listed in Table B-1 to document that data review was performed, as well as present the highest level of data validation (Tier I or Tier II) that was applied. Samples that required data qualification are listed separately for each parameter (compound or analyte) that required qualification.

The following data qualifiers have been used in this data evaluation.

- J The compound or analyte was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound or analyte is detected at estimated concentrations less than the Practical Quantitation Limit (PQL).
- U The compound or analyte was analyzed for, but was not detected. The sample quantitation limit is presented and adjusted for dilution and (for solid samples only) percent moisture. Non-detected sample results are presented as ND(PQL) within this report and in Table B-1 for consistency with previous documents prepared for this investigation.

- UJ The compound or analyte was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual level of quantitation. Non-detected sample results that required qualification are presented as ND(PQL) J within this report and in Table B-1 for consistency with previous documents prepared for this investigation.
- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purposes.

3.0 Data Validation Procedures

The FSP/QAPP provides (in Section 7.5) that all analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (USEPA guidelines). Accordingly, 100% of the analytical data for these investigations were subjected to Tier I review. The Tier I review consisted of a completeness evidence audit, as outlined in the *USEPA Region I CSF Completeness Evidence Audit Program* (USEPA Region I, 7/31/91), to ensure that all laboratory data and documentation were present. A tabulated summary of the samples subjected to Tier I and Tier II data evaluation is presented below.

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

Parameter	Tier I Only			Tier I & Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCBs	69	3	6	40	4	3	125

In the event data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with USEPA Region I Tier I data completeness requirements.

As specified in the FSP/QAPP, approximately 25% of the laboratory sample delivery group packages were randomly chosen to be subjected to Tier II review. A Tier II review was also performed to resolve data usability limitations identified from laboratory qualification of the data during the Tier I data review. The Tier II data review consisted of a review of all data package summary forms for identification of Quality Assurance/Quality Control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Due to the variable sizes of the data packages and the number of data qualification issues identified during the Tier I review, approximately 38% of the data were subjected to a Tier II review. The Tier II review resulted in the qualification of data for several samples due to minor QA/QC deficiencies. Additionally, all field duplicates were examined for Relative Percent Difference (RPD) compliance with the criteria specified in the FSP/QAPP.

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in USEPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented below for PCBs.

4.0 Data Review

Matrix spike (MS)/ matrix spike duplicate (MSD) sample analysis recoveries for PCBs must be within the laboratory generated QC acceptance limits specified on the MS reporting form. PCB sample results that exceeded laboratory generated QC acceptance limits and have MS recoveries greater than 10 percent were qualified as approximated (J). Non-detected PCBs sample results associated MS recoveries which exceeded laboratory generated QC acceptance limits and have MS recoveries less than 10 percent were qualified as rejected (R). Compounds that did not meet MS recovery criteria and the samples qualified due to those deviations are presented below

Compounds Qualified Due to Matrix Spike Recovery Deviations

Analysis	Analyte/Compounds	Number of Affected Samples	Qualification	
PCBs	Aroclor-1016	2	R	
	Aroclor-1221	2	R	
	Aroclor-1232	2	R	
	Aroclor-1242	2	R	
	Aroclor-1248	2	R	
	Aroclor-1254	2	J	
	Aroclor-1260		1	J
			1	R
	Total PCBs	2	J	

Field duplicate samples were analyzed to evaluate the overall precision of laboratory and field procedures. The RPD between duplicate samples is required to be less than 50 percent for soil samples. Sample results for compounds that exceeded these limits were qualified as estimated (J). The compounds that did not meet field duplicate RPD requirements and the number of samples qualified due to those deviations are presented below.

Compounds Qualified Due to Field Duplicate Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
PCBs	Total PCBs	2	J

The technical extraction holding time for criteria for PCBs in soil/sediment is 14 days from the time of collection. PCB sample results that were not extracted within the required time frame resulted in qualification of sample data as estimated (J). These compounds are shown below, along with the number of affected samples.

Compounds Qualified Due to Extraction Holding Time Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
PCBs	Aroclor-1016	4	J
	Aroclor-1221	4	J
	Aroclor-1232	4	J
	Aroclor-1242	4	J
	Aroclor-1248	4	J
	Aroclor-1254	4	J
	Aroclor-1260	4	J
PCBs	Total PCBs	4	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results determined to be usable during the data validation process. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analyses. The percent usability calculation included analyses evaluated under both the Tier I and Tier II data validation reviews. The percent usability calculation also includes quality control samples collected to aid in the evaluation of data usability. Therefore, field/equipment blank, trip blank, and field duplicate data determined to be unusable as a result of the validation process are represented in the percent usability value tabulated below.

Data Usability		
Parameter	Percent Usability	Rejected Data
PCBs	98.9	A total of 11 sample results were rejected due to MS/MSD recovery deviations

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

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included field duplicates and MS/MSD samples. For this analytical program, 0.20% of the data required qualification field duplicate RPD deviations. None of the data required qualification MS/MSD RPD deviations.

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, Laboratory Control Standards (LCSs), MS/MSD samples, and surrogate compound recoveries. For this analytical program, 1.6% required qualification for MS/MSD recoveries. None of the data required qualification for LCS recovery deviations, instrument calibration recoveries deviations, or surrogate compound standard recoveries deviations.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling

locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in Agency-approved work plans and by following the procedures for sample collection/analyses described in the FSP/QAPP. Additionally, the analytical program used procedures that were consistent with USEPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical program, 7.2% required qualification for extraction holding time deviations.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. The USEPA SW-846¹ analytical methods presented in the FSP/QAPP are updated on occasion by the USEPA to benefit from recent technological advancements in analytical chemistry and instrumentation. In most cases, the method upgrades include the incorporation of new technology that improves the sensitivity and stability of the instrumentation or allows the laboratory to increase throughput without hindering accuracy and precision. Overall, the analytical methods for this investigation have remained consistent in their general approach through continued use of the basic analytical techniques (i.e., sample extraction/preparation, instrument calibration, QA/QC procedures, etc.). Through this use of consistent base analytical procedures and by requiring that updated procedures meet the QA/QC criteria specified in the FSP/QAPP, the analytical data from past, present, and future sampling events will be comparable to allow for qualitative and quantitative assessment of site conditions.

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness and overall usability of this analytical data set is 98.9%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

The rejected PCBs sample data for these investigations include sample analyses results for 11 PCBs due to MS/MSD recoveries less than 10 percent. The MS/MSD of these compounds was performed in duplicate and similar results were obtained in both analyses of the MS demonstrating matrix interference. Re-sampling for these at these sampling locations is not recommended since subsequent reanalysis of these samples has proven matrix interference and the same analytical performance limitations for the analysis could occur again.

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

TABLE B-1
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1 1/2 MILE REACH OF HOUSATONIC RIVER

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

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
2H0P532	1A-RB-1	8/22/2002	Water	Tier I	No						
2H0P532	1A-SB-1 (0 - 1)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SB-1 (1 - 3)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SB-1 (3 - 6)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SB-7 (0 - 1)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SB-7 (1 - 3)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SB-7 (3 - 6)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SS-12 (0 - 1)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SS-15 (0 - 1)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SS-4 (0 - 1)	8/22/2002	Soil	Tier I	No						
2H0P532	1A-SS-7 (0 - 1)	8/22/2002	Soil	Tier II	No						
2H0P532	1A-SS-DUP-1 (0 - 1)	8/22/2002	Soil	Tier II	No						
2H0P557	1A-SB-2 (0 - 1)	8/23/2002	Soil	Tier I	No						1A-SS-7
2H0P557	1A-SB-2 (1 - 3)	8/23/2002	Soil	Tier I	No						
2H0P557	1A-SB-2 (3 - 5)	8/23/2002	Soil	Tier I	No						
2I0P156	1A-SB-2 (5 - 7)	8/23/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
						Aroclor-1221	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
						Aroclor-1232	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
						Aroclor-1242	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
						Aroclor-1248	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
						Aroclor-1254	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
						Aroclor-1260	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
						Total PCBs	Holdtimes (Extraction)	18 Days	14 Days	ND(0.049) J	
2I0P156	1A-SB-7 (6 - 10)	8/22/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	18 Days	14 Days	ND(0.040) J	
						Aroclor-1221	Holdtimes (Extraction)	18 Days	14 Days	ND(0.040) J	
						Aroclor-1232	Holdtimes (Extraction)	18 Days	14 Days	ND(0.040) J	
						Aroclor-1242	Holdtimes (Extraction)	18 Days	14 Days	ND(0.040) J	
						Aroclor-1248	Holdtimes (Extraction)	18 Days	14 Days	ND(0.040) J	
						Aroclor-1254	Holdtimes (Extraction)	18 Days	14 Days	0.15 J	
						Aroclor-1260	Holdtimes (Extraction)	18 Days	14 Days	0.14 J	
						Total PCBs	Holdtimes (Extraction)	18 Days	14 Days	0.29 J	
2I0P329	1A-SB-7 (10 - 15)	8/22/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
						Aroclor-1221	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
						Aroclor-1232	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
						Aroclor-1242	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
						Aroclor-1248	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
						Aroclor-1254	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
						Aroclor-1260	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
						Total PCBs	Holdtimes (Extraction)	12 Days	14 Days	ND(0.093) J	
2J0P089	1A-DUP-2 (3 - 6)	10/2/2002	Soil	Tier II	Yes	Total PCBs	Field Duplicate RPD (Soil)	54.2%	<50%	0.086 J	1A-SB-5
2J0P089	1A-SB-5 (0 - 1)	10/2/2002	Soil	Tier II	No						
2J0P089	1A-SB-5 (1 - 3)	10/2/2002	Soil	Tier II	Yes	Aroclor-1016	MSD %R	0.0%	50% to 130%	R	
						Aroclor-1221	MSD %R	0.0%	50% to 130%	R	
						Aroclor-1232	MSD %R	0.0%	50% to 130%	R	
						Aroclor-1242	MSD %R	0.0%	50% to 130%	R	
						Aroclor-1248	MSD %R	0.0%	50% to 130%	R	
						Aroclor-1254	MSD %R	0.0%	50% to 130%	0.48 J	
						Aroclor-1260	MSD %R	0.0%	50% to 130%	R	
						Total PCBs	MSD %R	0.0%	50% to 130%	0.48 J	
2J0P089	1A-SB-5 (3 - 6)	10/2/2002	Soil	Tier II	Yes	Total PCBs	Field Duplicate RPD (Soil)	54.2%	<50%	0.15 J	
2J0P089	1A-SB-6 (0 - 1)	10/2/2002	Soil	Tier II	No						
2J0P089	1A-SB-6 (1 - 3)	10/2/2002	Soil	Tier II	No						
2J0P089	1A-SB-6 (3 - 6)	10/2/2002	Soil	Tier II	No						
2J0P089	1A-SS-10 (0 - 1)	10/2/2002	Soil	Tier II	No						
2J0P089	1A-SS-11 (0 - 1)	10/2/2002	Soil	Tier II	No						
2J0P089	1A-SS-13 (0 - 1)	10/2/2002	Soil	Tier II	No						

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

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
2J0P089	1A-SS-14 (0 - 1)	10/2/2002	Soil	Tier II	No						
2J0P089	RB-100202-1	10/2/2002	Water	Tier II	No						
2J0P388	1A-SB-5 (6 - 10)	10/2/2002	Soil	Tier I	No						
2J0P388	1A-SB-6 (6 - 10)	10/2/2002	Soil	Tier I	No						
2J0P620	1B-SB-3 (0 - 1)	10/21/2002	Soil	Tier I	No						
2J0P620	1B-SB-3 (1 - 3)	10/21/2002	Soil	Tier I	No						
2J0P620	1B-SB-3 (3 - 6)	10/21/2002	Soil	Tier I	No						
2J0P620	1B-SB-4 (0 - 1)	10/21/2002	Soil	Tier I	No						
2J0P620	1B-SB-4 (1 - 3)	10/21/2002	Soil	Tier I	No						
2J0P620	1B-SB-4 (3 - 6)	10/21/2002	Soil	Tier I	No						
2J0P621	1B-DUP-2 (0 - 1)	10/22/2002	Soil	Tier II	No						1B-SS-1
2J0P621	1B-DUP-3 (0 - 1)	10/22/2002	Soil	Tier II	No						1B-SS-4
2J0P621	1B-SS-1 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-10 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-11 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-12 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-13 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-14 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-15 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-16 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-17 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-18 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-19 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-2 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-20 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-3 (0 - 1)	10/22/2002	Soil	Tier II	Yes	Aroclor-1016	MS %R	9.0%	50% to 130%	R	
						Aroclor-1221	MS %R	9.0%	50% to 130%	R	
						Aroclor-1232	MS %R	9.0%	50% to 130%	R	
						Aroclor-1242	MS %R	9.0%	50% to 130%	R	
						Aroclor-1248	MS %R	9.0%	50% to 130%	R	
						Aroclor-1254	MS %R	9.0%	50% to 130%	0.38 J	
						Aroclor-1260	MS %R	9.0%	50% to 130%	0.36 J	
						Total PCBs	MS %R	9.0%	50% to 130%	0.74 J	
2J0P621	1B-SS-4 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-5 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-6 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-7 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-8 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	1B-SS-9 (0 - 1)	10/22/2002	Soil	Tier II	No						
2J0P621	RB-102202-1	10/22/2002	Water	Tier II	No						
2J0P621	RB-102202-2	10/22/2002	Water	Tier II	No						
2J0P640	1A-SB-5 (10 - 15)	10/2/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	22 Days	14 Days	ND(0.054) J	
						Aroclor-1221	Holdtimes (Extraction)	22 Days	14 Days	ND(0.054) J	
						Aroclor-1232	Holdtimes (Extraction)	22 Days	14 Days	ND(0.054) J	
						Aroclor-1242	Holdtimes (Extraction)	22 Days	14 Days	ND(0.054) J	
						Aroclor-1248	Holdtimes (Extraction)	22 Days	14 Days	ND(0.054) J	
						Aroclor-1254	Holdtimes (Extraction)	22 Days	14 Days	0.087 J	
						Aroclor-1260	Holdtimes (Extraction)	22 Days	14 Days	ND(0.054) J	
						Total PCBs	Holdtimes (Extraction)	22 Days	14 Days	0.087 J	
2J0P661	1B-DUP-4 (1 - 3)	10/23/2002	Soil	Tier I	No						
2J0P661	1B-SB-12 (0 - 1)	10/23/2002	Soil	Tier I	No						1B-SB-12
2J0P661	1B-SB-12 (1 - 3)	10/23/2002	Soil	Tier I	No						
2J0P661	1B-SB-12 (3 - 6)	10/23/2002	Soil	Tier I	No						
2J0P661	1B-SB-13 (0 - 1)	10/23/2002	Soil	Tier I	No						
2J0P661	1B-SB-13 (1 - 3)	10/23/2002	Soil	Tier I	No						
2J0P661	1B-SB-13 (3 - 6)	10/23/2002	Soil	Tier I	No						

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

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
2J0P661	RB-102302-1	10/23/2002	Water	Tier I	No						
2K0P059	1B-DUP-5 (3 - 6)	10/31/2002	Soil	Tier I	No						1B-SB-9
2K0P059	1B-SB-1 (0 - 1)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-1 (1 - 3)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-1 (3 - 6)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-10 (0 - 1)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-10 (1 - 3)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-10 (3 - 6)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-11 (0 - 1)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-11 (1 - 3)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-11 (3 - 6)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-2 (0 - 1)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-2 (1 - 3)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-2 (3 - 6)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-5 (0 - 1)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-5 (1 - 3)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-5 (3 - 6)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-6 (0 - 1)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-6 (1 - 3)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-6 (3 - 6)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-7 (0 - 1)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-7 (1 - 3)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-7 (3 - 6)	10/30/2002	Soil	Tier I	No						
2K0P059	1B-SB-8 (0 - 1)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-8 (1 - 3)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-8 (3 - 6)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-9 (0 - 1)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-9 (1 - 3)	10/31/2002	Soil	Tier I	No						
2K0P059	1B-SB-9 (3 - 6)	10/31/2002	Soil	Tier I	No						
2K0P059	RB-103002-1	10/30/2002	Water	Tier I	No						
2K0P059	RB-103102-1	10/31/2002	Water	Tier I	No						
2K0P060	1B-SB-12 (6 - 10)	10/23/2002	Soil	Tier I	No						
2K0P060	1B-SB-13 (6 - 10)	10/23/2002	Soil	Tier I	No						
2K0P079	1A-DUP-6 (1 - 3)	11/4/2002	Soil	Tier I	No						1A-SB-3
2K0P079	1A-SB-04 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SB-04 (1 - 3)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SB-04 (3 - 5)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SB-3 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SB-3 (1 - 3)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SB-3 (3 - 5)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SS-1 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SS-2 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SS-3 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SS-5 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SS-6 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SS-8 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	1A-SS-9 (0 - 1)	11/4/2002	Soil	Tier I	No						
2K0P079	RB-110402-1	11/4/2002	Water	Tier I	No						
2K0P269	1B-SB-12 (10 - 15)	10/23/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	
						Aroclor-1221	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	
						Aroclor-1232	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	
						Aroclor-1242	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	
						Aroclor-1248	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	
						Aroclor-1254	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	
						Aroclor-1260	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	
						Total PCBs	Holdtimes (Extraction)	20 Days	14 Days	ND(0.041) J	

TABLE B-1
ANALYTICAL DATA VALIDATION SUMMARY
PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT
FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER

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

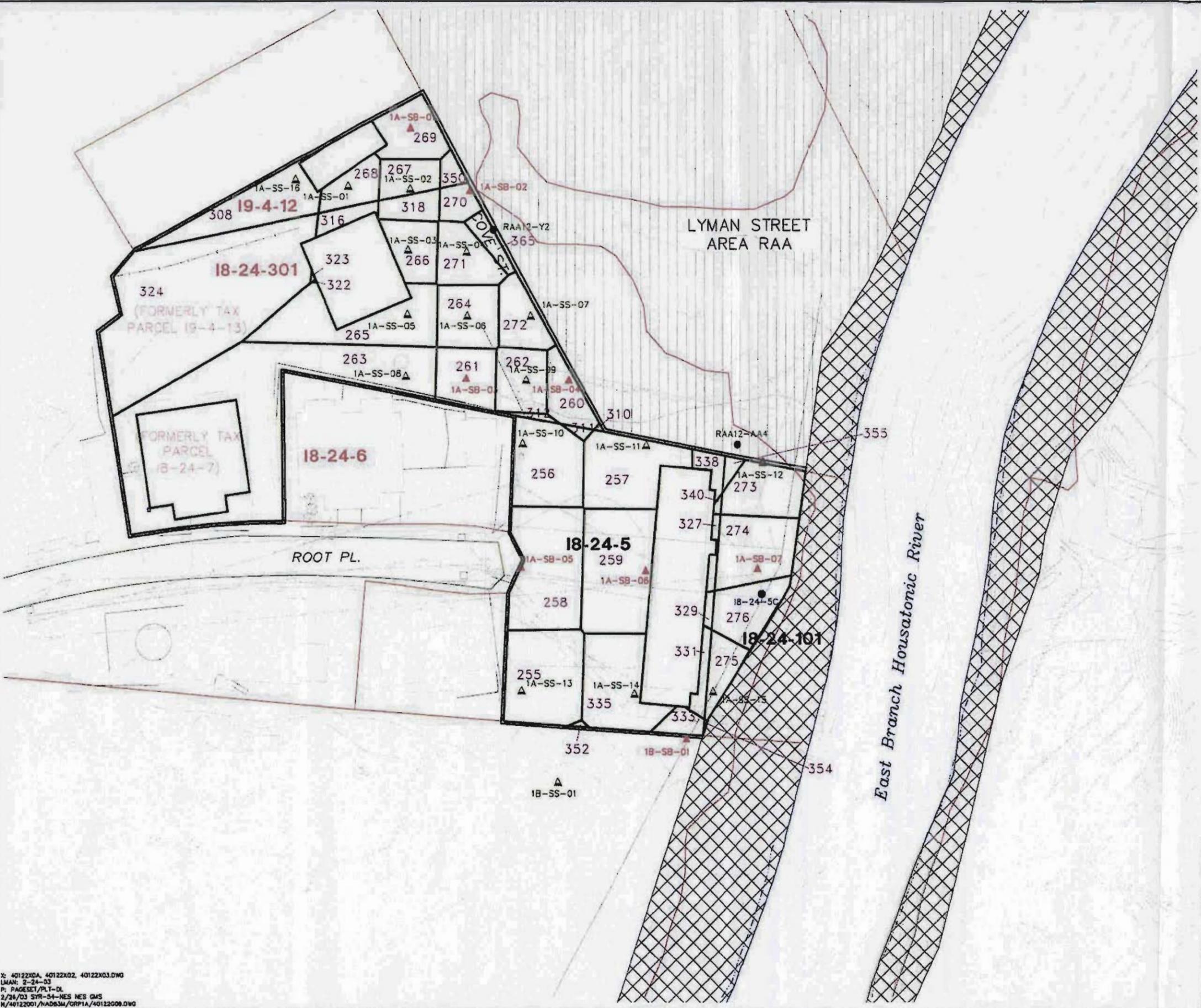
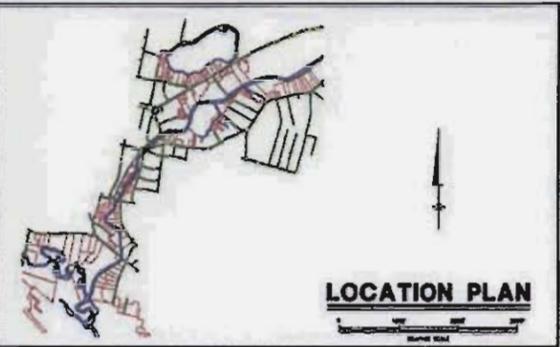
Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
2K0P269	1B-SB-13 (10 - 15)	10/23/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
						Aroclor-1221	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
						Aroclor-1232	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
						Aroclor-1242	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
						Aroclor-1248	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
						Aroclor-1254	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
						Aroclor-1260	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
						Total PCBs	Holdtimes (Extraction)	20 Days	14 Days	ND(0.051) J	
2K0P393	1B-SB-1 (6 - 10)	10/30/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
						Aroclor-1221	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
						Aroclor-1232	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
						Aroclor-1242	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
						Aroclor-1248	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
						Aroclor-1254	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
						Aroclor-1260	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
						Total PCBs	Holdtimes (Extraction)	19 Days	14 Days	ND(0.055) J	
2K0P393	1B-SB-11 (6 - 10)	10/31/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
						Aroclor-1221	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
						Aroclor-1232	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
						Aroclor-1242	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
						Aroclor-1248	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
						Aroclor-1254	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
						Aroclor-1260	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
						Total PCBs	Holdtimes (Extraction)	18 Days	14 Days	ND(0.038) J	
2K0P393	1B-SB-8 (6 - 10)	10/31/2002	Soil	Tier II	Yes	Aroclor-1016	Holdtimes (Extraction)	18 Days	14 Days	ND(0.037) J	
						Aroclor-1221	Holdtimes (Extraction)	18 Days	14 Days	ND(0.037) J	
						Aroclor-1232	Holdtimes (Extraction)	18 Days	14 Days	ND(0.037) J	
						Aroclor-1242	Holdtimes (Extraction)	18 Days	14 Days	ND(0.037) J	
						Aroclor-1248	Holdtimes (Extraction)	18 Days	14 Days	ND(0.037) J	
						Aroclor-1254	Holdtimes (Extraction)	18 Days	14 Days	0.040 J	
						Aroclor-1260	Holdtimes (Extraction)	18 Days	14 Days	ND(0.037) J	
						Total PCBs	Holdtimes (Extraction)	18 Days	14 Days	0.040 J	
3B0P172	1A-SS-16 (0 - 1)	2/6/2003	Soil	Tier I	No						
3B0P172	RB-020603-1	2/6/2003	Water	Tier I	No						

Appendix C

PCB Spatial Average Evaluations

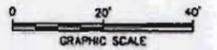
PCB Spatial Average Evaluations

Theissen Polygon Maps – Group 1A



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - - - FENCELINE
 - 18-24-301 RESIDENTIAL PROPERTY PARCEL ID
 - 18-24-5 NON-RESIDENTIAL PROPERTY PARCEL ID
 - 18-24-5C EXISTING SOIL BORING LOCATION
 - 1A-SS-08 PRE-DESIGN SURFACE SOIL SAMPLE LOCATION
 - 1A-SB-05 PRE-DESIGN SOIL BORING LOCATION
 - RAA12-24 LYMAN STREET AREA RAA PRE-DESIGN SAMPLE LOCATION
 - 324 POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOW (FOR GROUP 1A)
 - 10 YEAR FLOODPLAIN
 - ▨ AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.

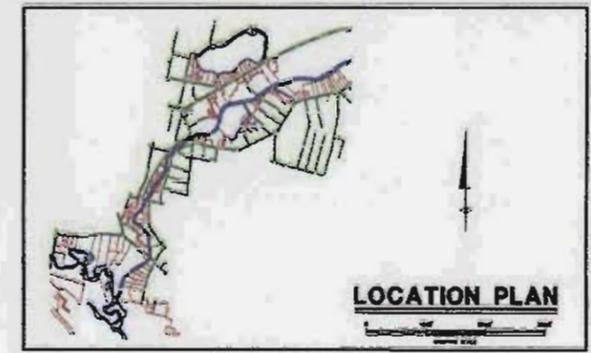
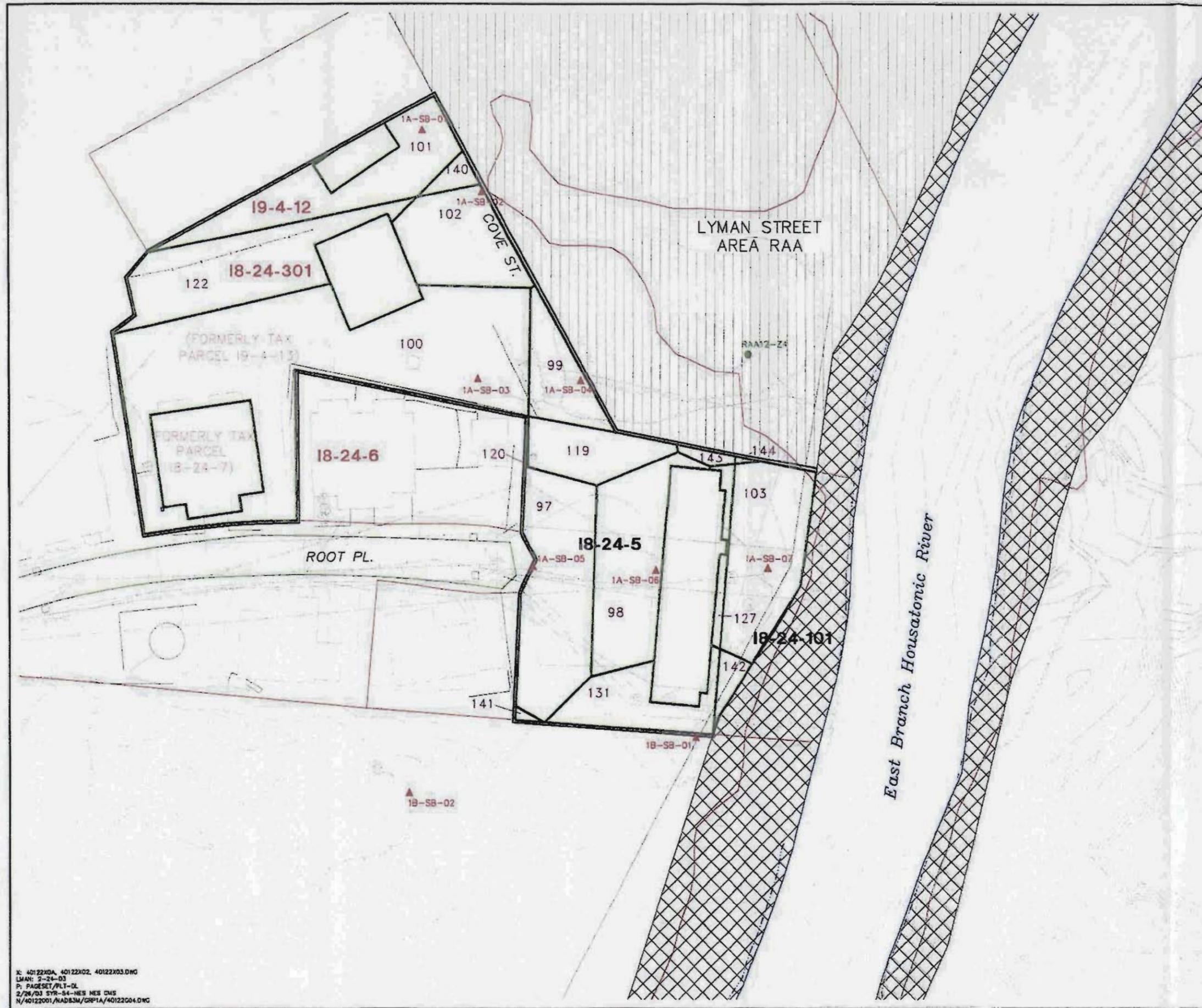


GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 0- TO 1-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1A**



FIGURE
C-1



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - FENCELINE
 - 18-24-301** RESIDENTIAL PROPERTY PARCEL ID
 - 18-24-5** NON-RESIDENTIAL PROPERTY PARCEL ID
 - 1A-SB-05** ▲ PRE-DESIGN SOIL BORING LOCATION
 - RAA12-24** ● LYMAN STREET AREA RAA PRE-DESIGN SAMPLE LOCATION
 - 98** POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SDW (FOR GROUP 1A)
 - 10 YEAR FLOODPLAIN
 - AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASE-BASED BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



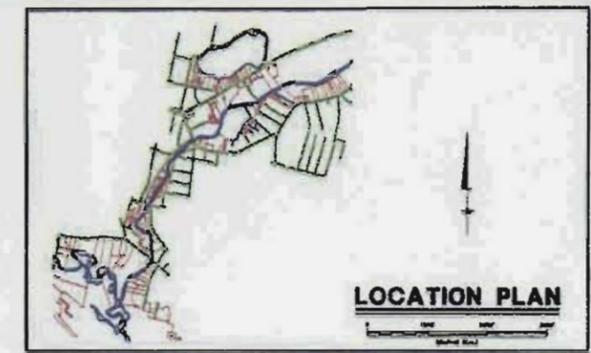
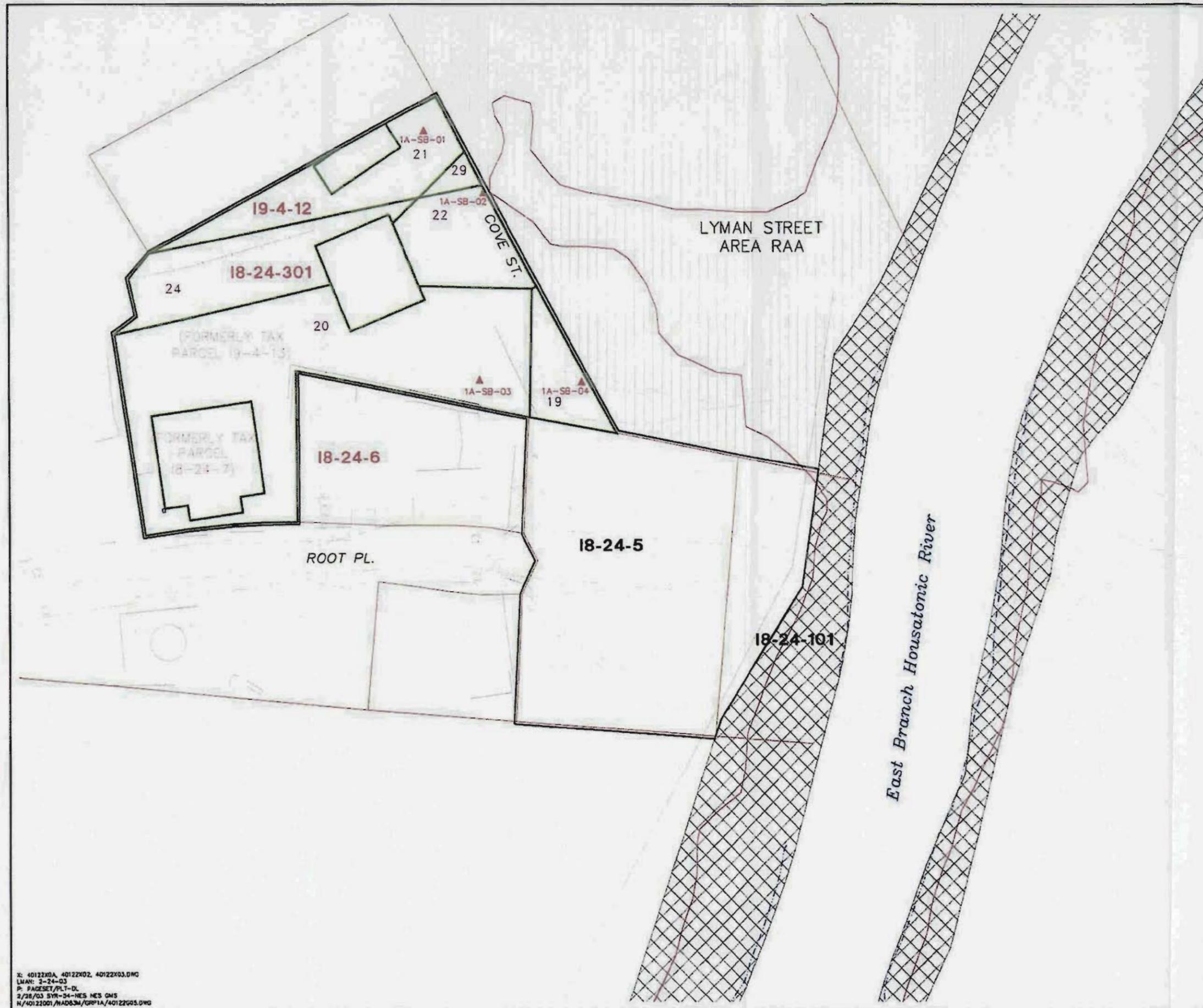
GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

THEISSEN POLYGON MAP
1- TO 3-FOOT DEPTH INCREMENT
FOR PHASE 1, GROUP 1A



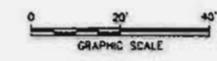
FIGURE
C-2

X: 40122X0A, 40122X02, 40122X03.DWG
 LMAN: 2-24-03
 P: PAGESET/PLT-DL
 2/26/03 SYR-S4-NES NES CMS
 N/40122001/NA03M/GRP1A/40122004.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - FENCELINE
 - 18-24-301** RESIDENTIAL PROPERTY PARCEL ID
 - 18-24-5** NON-RESIDENTIAL PROPERTY PARCEL ID
 - 1A-SB-05** ▲ PRE-DESIGN SOIL BORING LOCATION
 - 122** POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOW (FOR GROUP 1A)
 - 10 YEAR FLOODPLAIN
 - ▨ AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



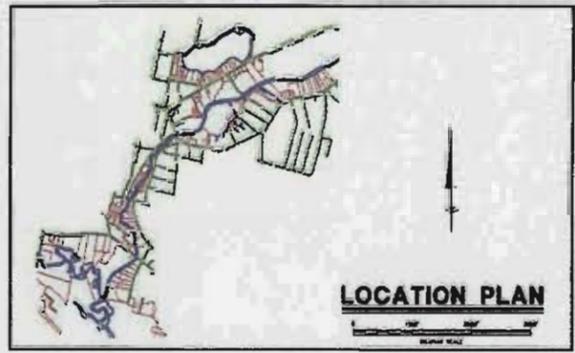
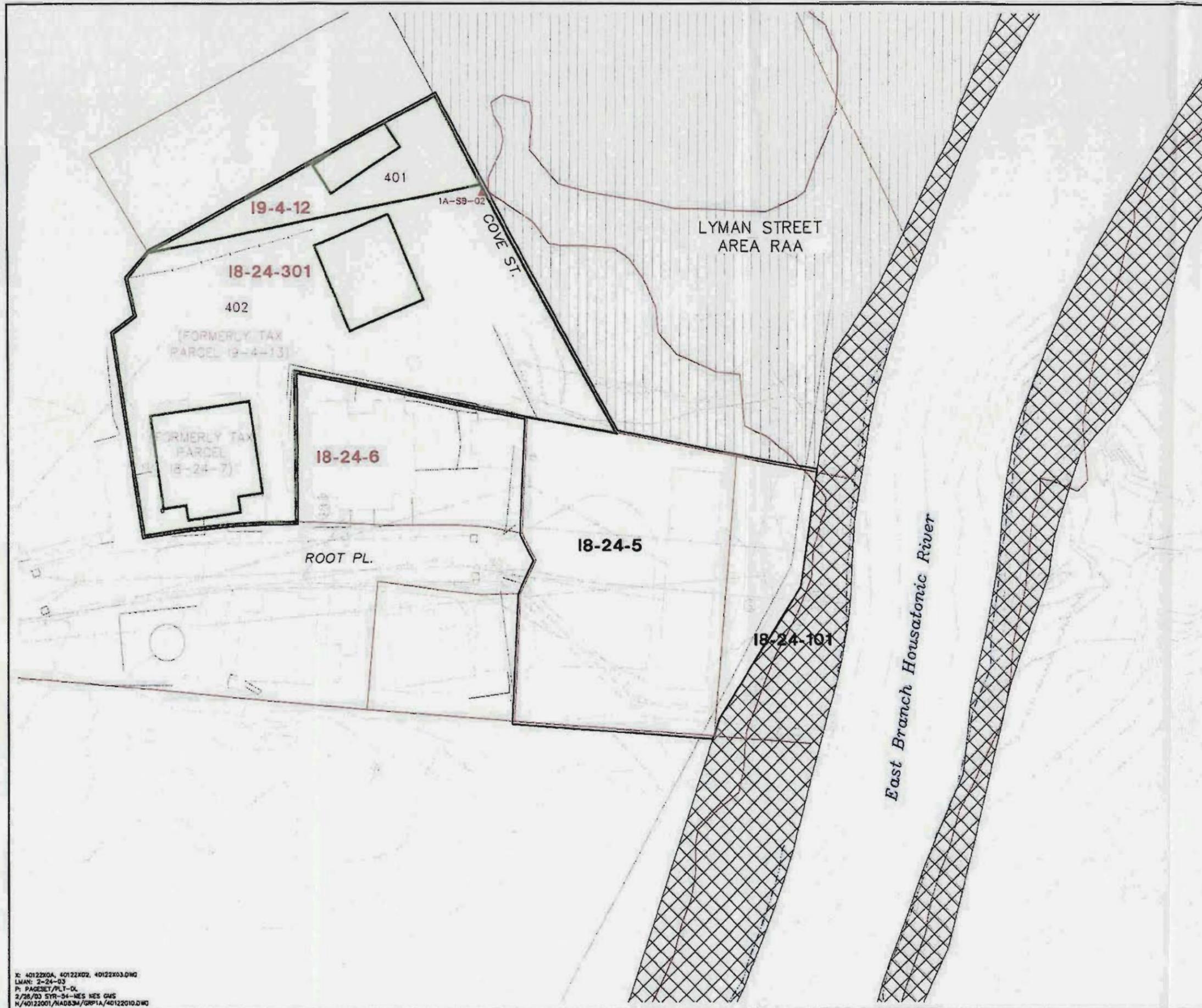
GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 3- TO 5-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1A**



FIGURE
C-3

X: 40122X0A, 40122X02, 40122X03.DWG
 LMAN: 2-24-03
 P: PAGESET/PL1-DL
 2/28/03 SYR-34-NES NES GMS
 N/40122001/HAD63M/GRP1A/40122X03.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - FENCELINE
 - 18-24-301 RESIDENTIAL PROPERTY PARCEL ID
 - 18-24-5 NON-RESIDENTIAL PROPERTY PARCEL ID
 - 1A-SB-05 ▲ PRE-DESIGN SOIL BORING LOCATION
 - 301 POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOW (FOR GROUP 1A)
 - 10 YEAR FLOODPLAIN
 - ▨ AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASERBASE.ORG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



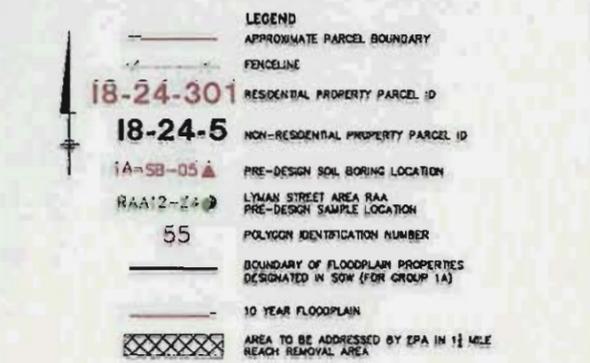
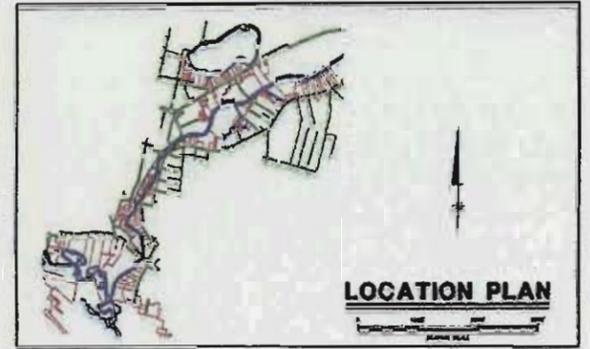
GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 5- TO 7-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1A**



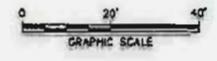
FIGURE
C-4

X: 40122K0A, 40122K02, 40122K03.DWG
 LMAN: 2-24-03
 P: PAGESET/PLT-DL
 2/28/03 SYR-54-NES HES GWS
 H/40122001/NA0834/GRP1A/40122010.DWG



NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BODDY & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.

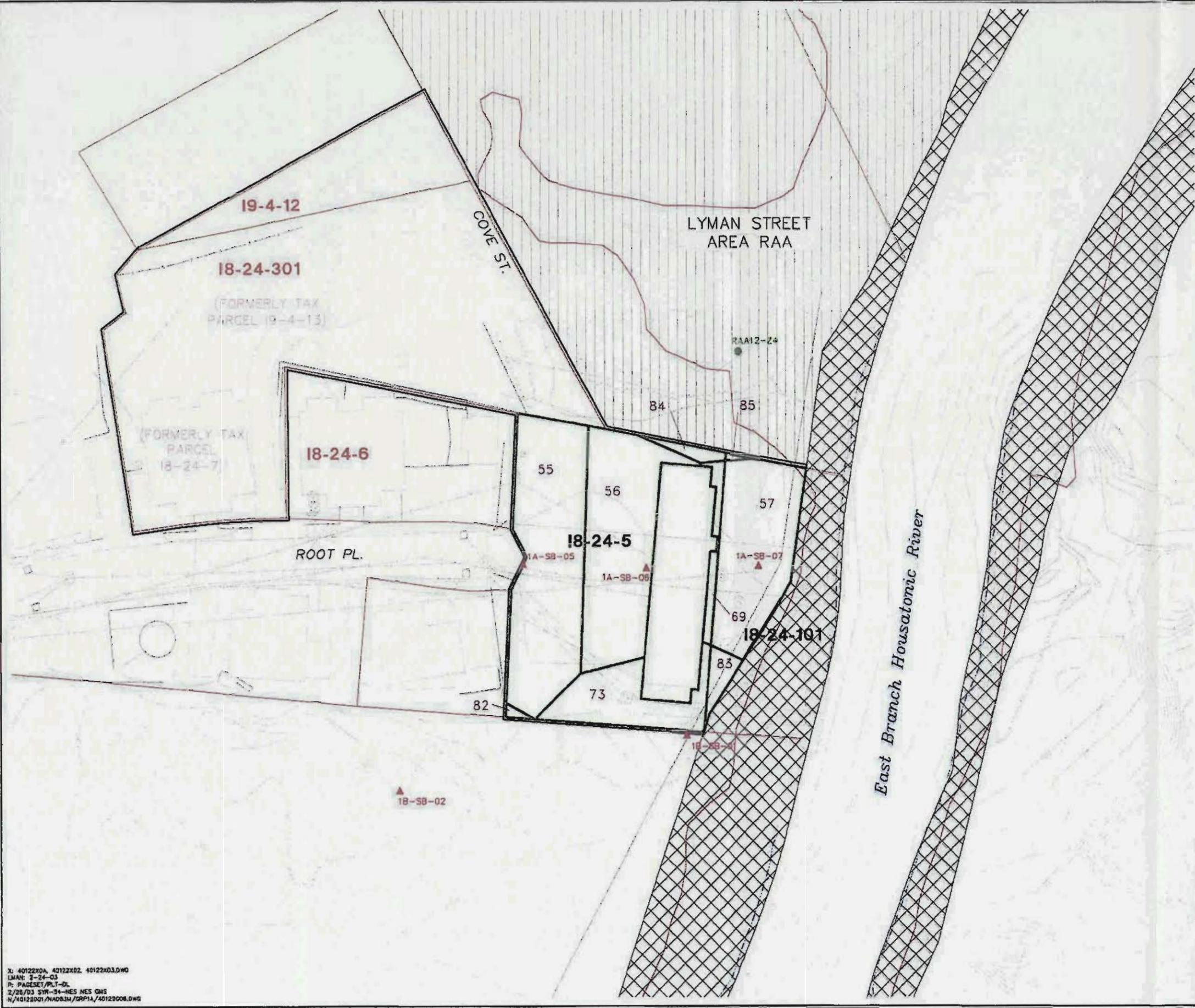


GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

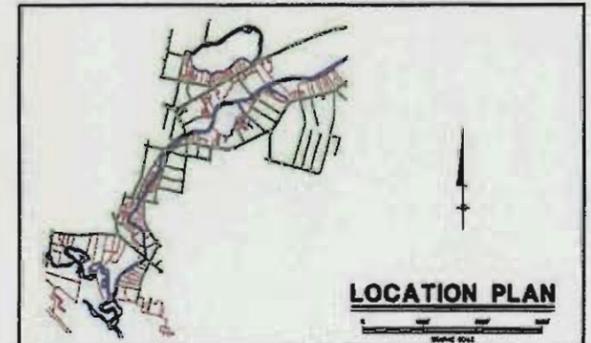
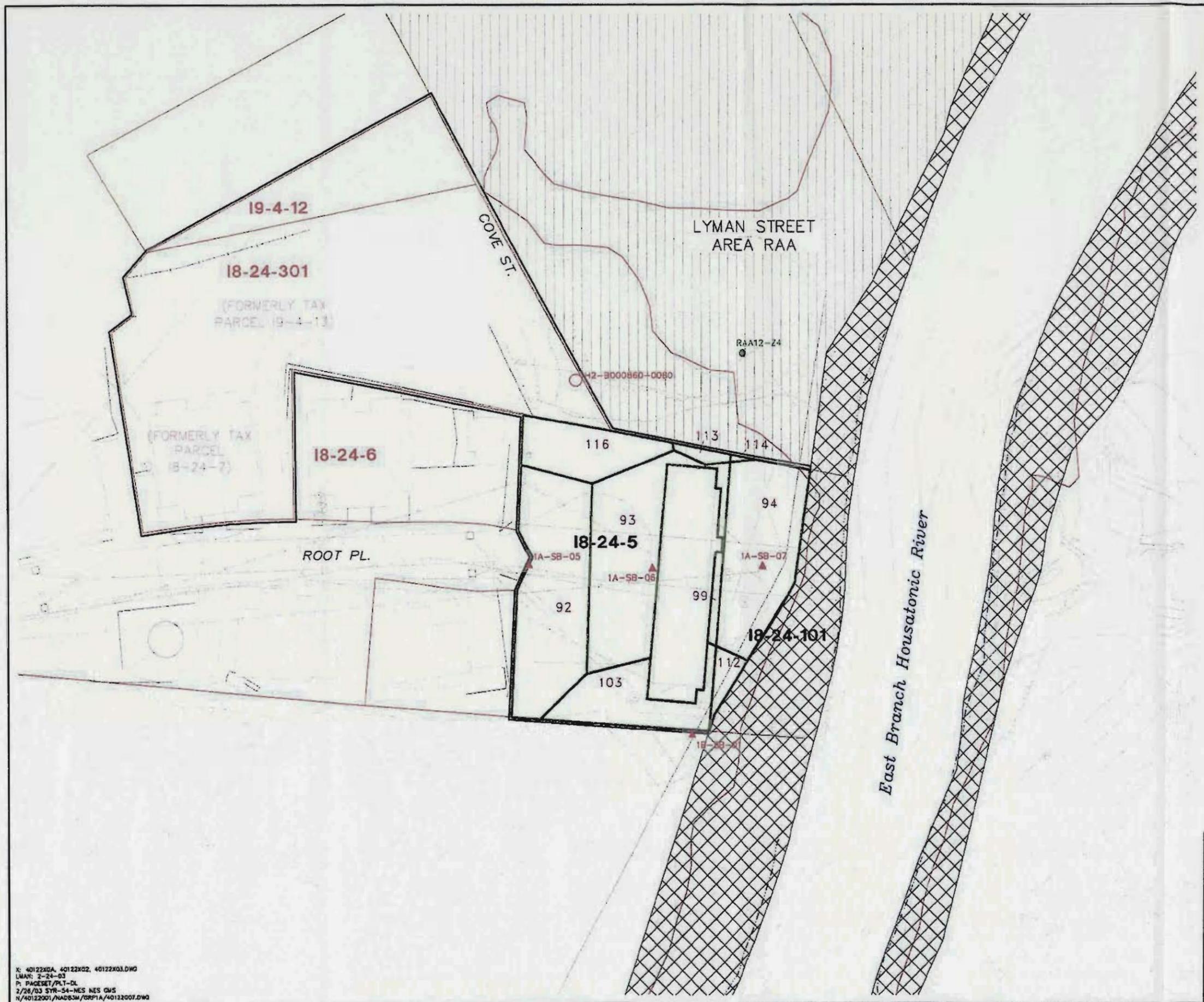
**THEISSEN POLYGON MAP
3- TO 6-FOOT DEPTH INCREMENT
FOR PHASE 1, GROUP 1A**



FIGURE
C-5



X: 40122X0A, 40122X02, 40122X03.DWG
LWAC: 2-24-03
P: PAGESET/PLT-DL
2/26/03 5:18:34-RES NES GWS
N:\40122001\NA033M\GRP1A\40122008.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - FENCELINE
 - 18-24-301 RESIDENTIAL PROPERTY PARCEL ID
 - 18-24-5 NON-RESIDENTIAL PROPERTY PARCEL ID
 - 1A-SB-05 PRE-DESIGN SOIL BORING LOCATION
 - RAA12-24 LYMAN STREET AREA RAA PRE-DESIGN SAMPLE LOCATION
 - H2-BH000860-0-0080 EPA PRE-DESIGN SAMPLE LOCATION
 - 39 POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOW (FOR GROUP 1A)
 - 10 YEAR FLOODPLAIN
 - AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASE 1 ARE BASED ON THE DATA PROVIDED BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



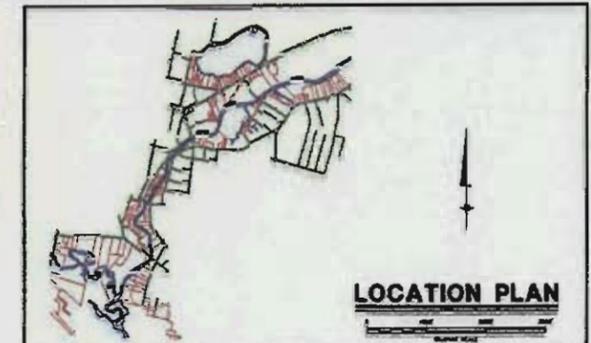
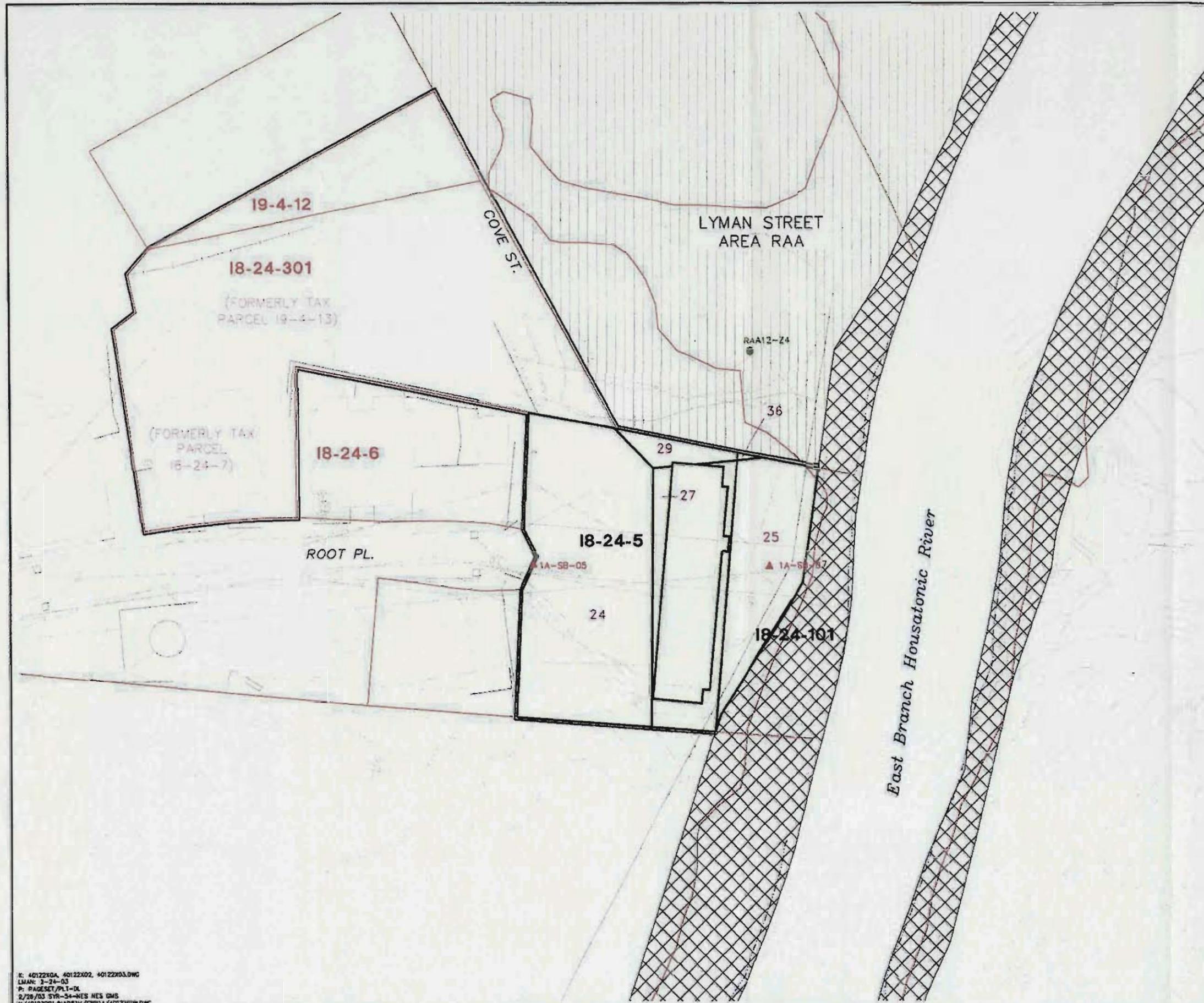
GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

THEISSEN POLYGON MAP
6- TO 10-FOOT DEPTH INCREMENT
FOR PHASE 1, GROUP 1A



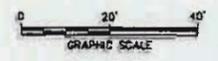
FIGURE
C-6

X: 40122X02A, 40122X02, 40122X03.DWG
 LMAP: 2-24-03
 P: PAGES17,PLT-DL
 2/28/03 STR-54-NES NES CWS
 N/40122001/NAD63M/GRP1A/40122007.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - FENCELINE
 - 18-24-301 RESIDENTIAL PROPERTY PARCEL ID
 - 18-24-5 NON-RESIDENTIAL PROPERTY PARCEL ID
 - 1A-SB-05 PRE-DESIGN SOIL BORING LOCATION
 - RAA12-24 LYMAN STREET AREA RAA PRE-DESIGN SAMPLE LOCATION
 - 24 POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOH (FOR GROUP 1A)
 - 10 YEAR FLOODPLAIN
 - AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 10- TO 15-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1A**

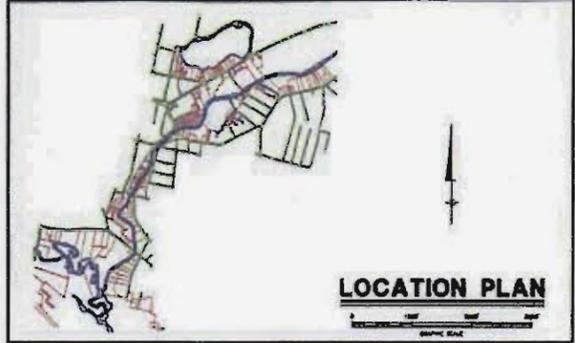


FIGURE
C-7

K: 40122X0A, 40122X02, 40122X03.DWG
 LMAN: 7-24-03
 P: PAGESET/PL1-DL
 2/28/03 SVR-34-NES NES GMS
 W/40122001/NAD83M/GRP1A/40122G00.DWG

PCB Spatial Average Evaluations

Theissen Polygon Maps – Group 1B



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - - - FENCELINE
 - 18-24-1** NON-RESIDENTIAL PROPERTY PARCEL ID
 - EXISTING SOIL BORING LOCATION
 - ▲ PRE-DESIGN SURFACE SOIL SAMPLE LOCATION
 - ▲ PRE-DESIGN SOIL BORING LOCATION
 - 222 POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOW (FOR GROUP 1B)
 - 10 YEAR FLOODPLAIN
 - ▨ AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



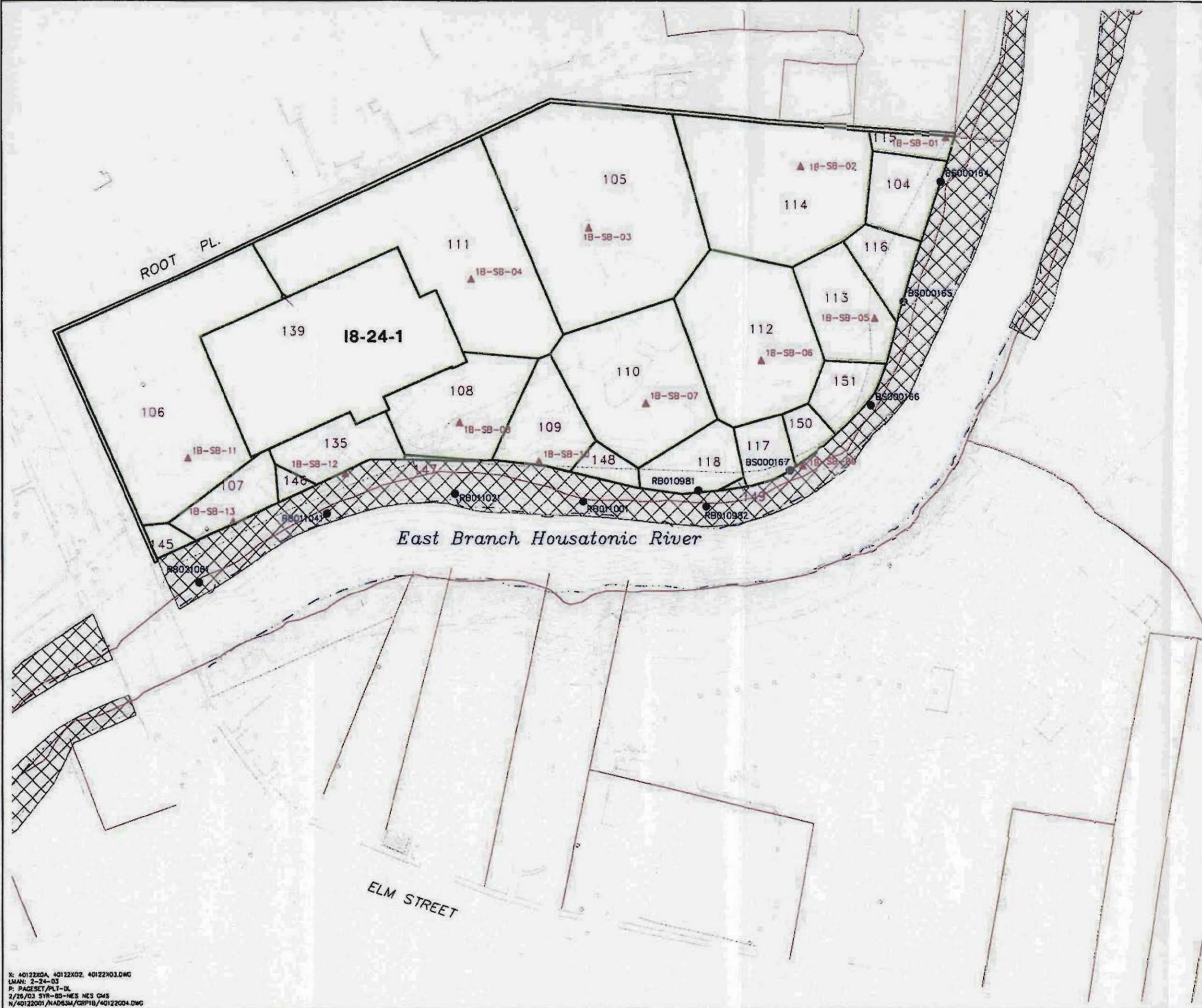
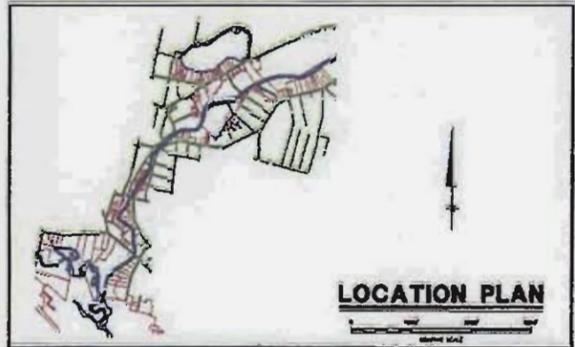
GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 0- TO 1-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1B**



FIGURE
C-8

X: 40122X0A, 40122X02, 40122X03.DWG
 LMAN: 2-24-03
 P: PAGESET/PLT-DL
 2/26/03 3YR-85-NES MES GMS
 N/40122001/NA0834/GRP10/40122008.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - - - FENCELINE
 - 18-24-1** NON-RESIDENTIAL PROPERTY PARCEL ID
 - RB010981 EXISTING SOIL BORING LOCATION
 - ▲ 1A-SB-03 PRE-DESIGN SOIL BORING LOCATION
 - 108 POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SDW (FOR GROUP 1B)
 - 10 YEAR FLOODPLAIN
 - ▨ AREA TO BE ADDRESSED BY EPA IN 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLAISLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



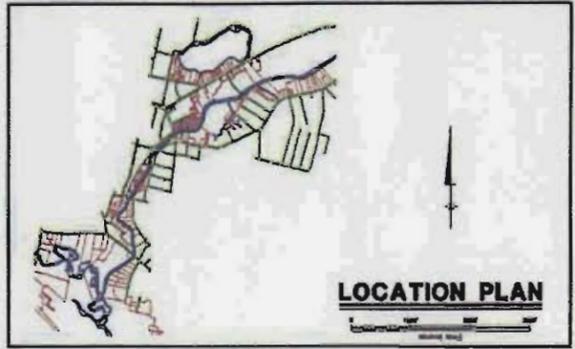
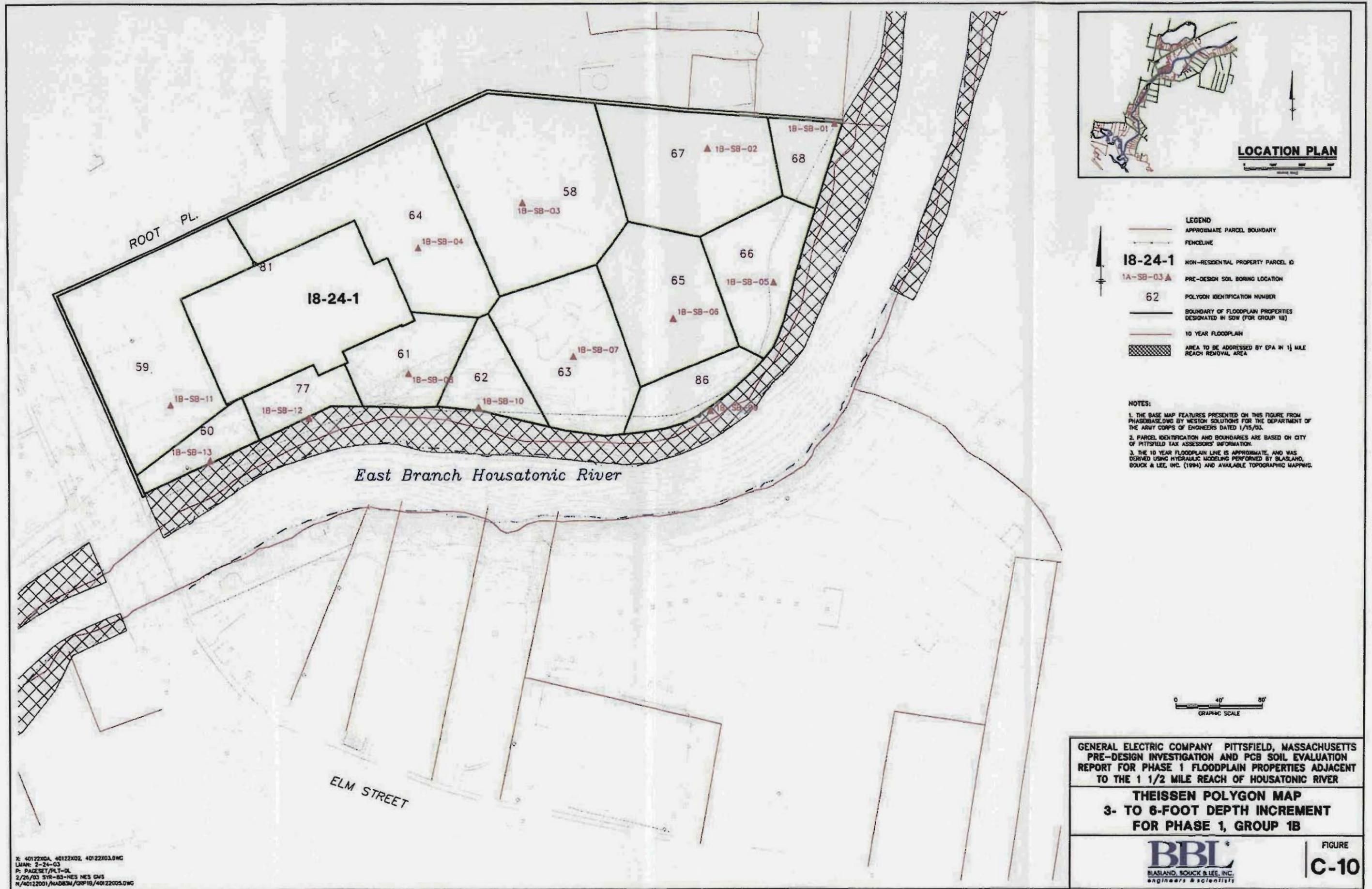
GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 1- TO 3-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1B**



FIGURE
C-9

X: 4012200A, 40122002, 40122003.DWG
 LMAN: 2-24-03
 P: PAGESET/PLT-DL
 2/26/03 SYR-B5-NES NES GMS
 N/40122001/NAD63M/CRP1B/40122004.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - - - FENCELINE
 - 18-24-1** NON-RESIDENTIAL PROPERTY PARCEL ID
 - ▲ 18-SB-03 PRE-DESIGN SOIL BORING LOCATION
 - 62 POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOW (FOR GROUP 1B)
 - 10 YEAR FLOODPLAIN
 - ▨ AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



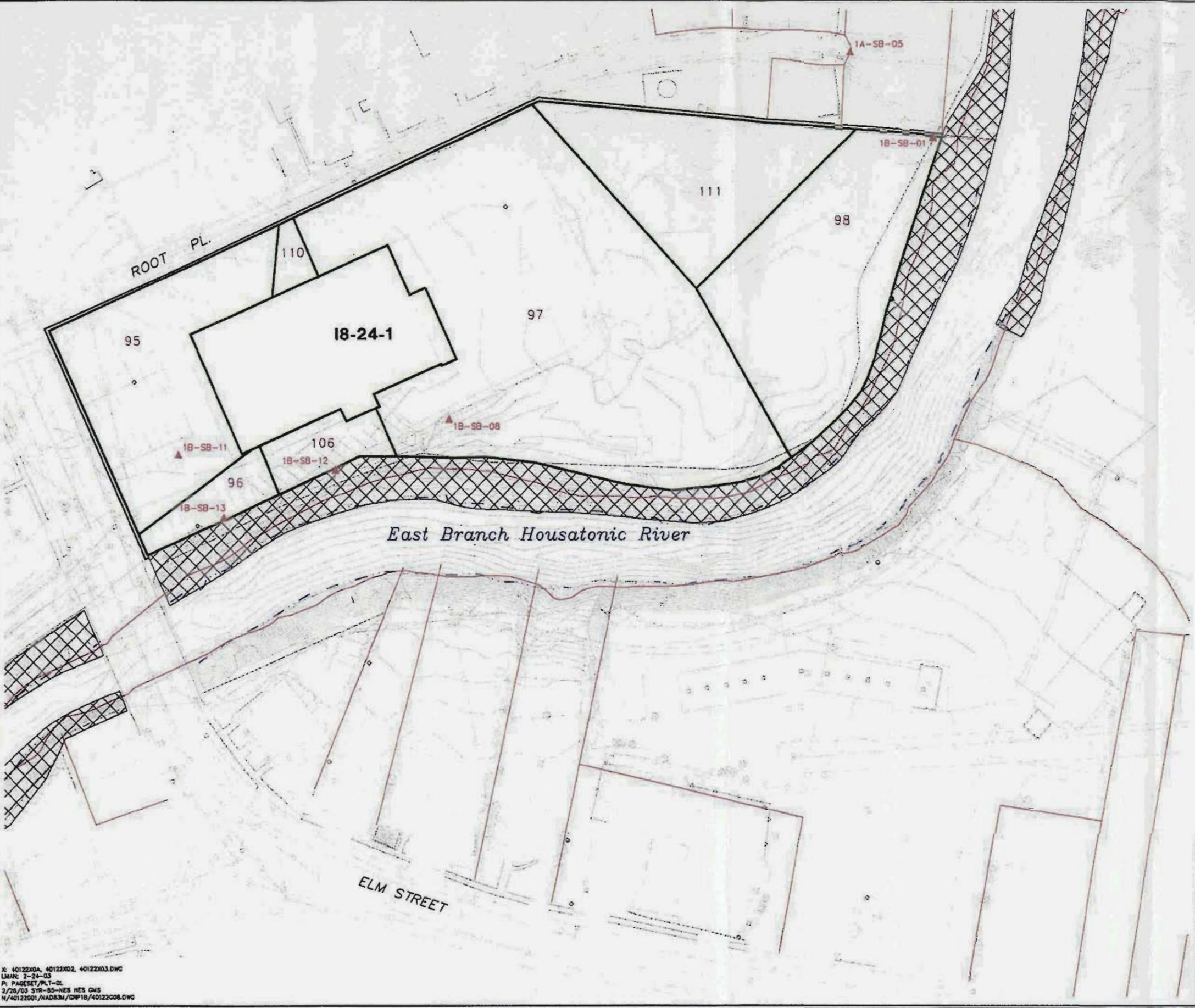
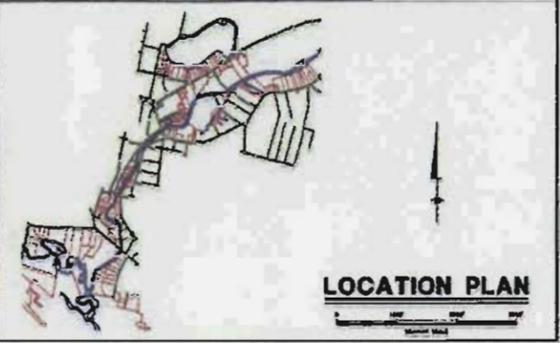
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 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 3- TO 6-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1B**



FIGURE
C-10

X: 4012200A, 4012200Z, 40122003.DWG
 LDATE: 7-24-03
 P: PAGESET/PLT-DL
 2/26/03 578-B5-NE5 DWS
 R/40122001/HADBSM/GRP1B/40122005.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - FENCELINE
 - 18-24-1** NON-RESIDENTIAL PROPERTY PARCEL ID
 - 1A-SB-03▲ PRE-DESIGN SOIL BORING LOCATION
 - 97** POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SOM (FOR GROUP 1B)
 - 10 YEAR FLOODPLAIN
 - AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



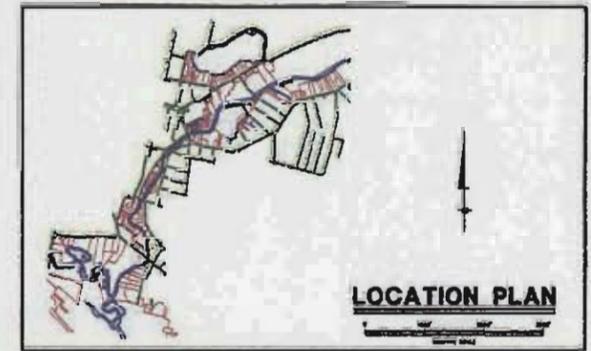
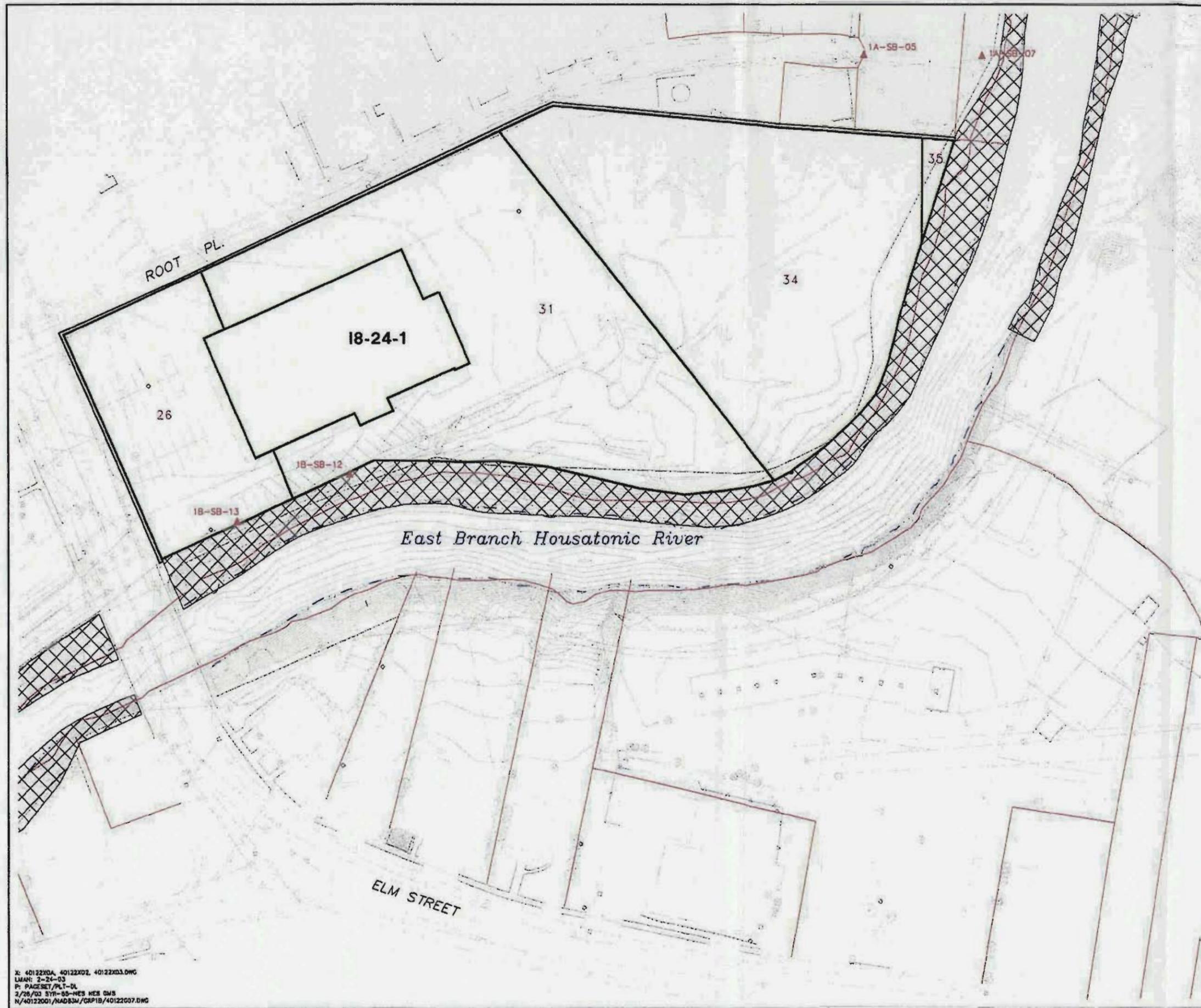
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 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

**THEISSEN POLYGON MAP
 6- TO 10-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1B**



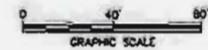
FIGURE
C-11

X: 40122X0A, 40122X02, 40122X03.DWG
 LNAME: 2-24-03
 P: PAGESET/PLT-01
 2/28/03 STR-B5-RES RES GMS
 N/40122001/HADR3M/GPF18/40122008.DWG



- LEGEND**
- APPROXIMATE PARCEL BOUNDARY
 - FENCELINE
 - 18-24-1** NON-RESIDENTIAL PROPERTY PARCEL ID
 - 1A-SB-05 ▲ PRE-DESIGN SOIL BORING LOCATION
 - 35** POLYGON IDENTIFICATION NUMBER
 - BOUNDARY OF FLOODPLAIN PROPERTIES DESIGNATED IN SDW (FOR GROUP 1B)
 - 10 YEAR FLOODPLAIN
 - AREA TO BE ADDRESSED BY EPA IN 1 1/2 MILE REACH REMOVAL AREA

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE FROM PHASEBASE.DWG BY WESTON SOLUTIONS FOR THE DEPARTMENT OF THE ARMY CORPS OF ENGINEERS DATED 1/15/03.
 2. PARCEL IDENTIFICATION AND BOUNDARIES ARE BASED ON CITY OF PITTSFIELD TAX ASSESSORS' INFORMATION.
 3. THE 10 YEAR FLOODPLAIN LINE IS APPROXIMATE, AND WAS DERIVED USING HYDRAULIC MODELING PERFORMED BY BLASLAND, BOUCK & LEE, INC. (1994) AND AVAILABLE TOPOGRAPHIC MAPPING.



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS
 PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION
 REPORT FOR PHASE 1 FLOODPLAIN PROPERTIES ADJACENT
 TO THE 1 1/2 MILE REACH OF HOUSATONIC RIVER

THEISSEN POLYGON MAP
 10- TO 15-FOOT DEPTH INCREMENT
 FOR PHASE 1, GROUP 1B



FIGURE
C-12

PCB Spatial Average Evaluation

Parcel I9-4-12

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engineers & scientists

TABLE C-1

PARCEL I9-4-12
 SPATIAL AVERAGE 0- TO 1-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-01	268	357.24	0 - 1	2.24	2.24	13.23	29.64
1A-SS-02	267	349.39	0 - 1	ND (0.038)	0.019	12.94	0.25
1A-SS-16	308	909.42	0 - 1	1.3	1.3	33.68	43.79
1A-SB-01	269	556.48	0 - 1	0.249	0.249	20.61	5.13
1A-SB-02	350	109.79	0 - 1	ND (0.036)	0.018	4.07	0.07
Totals:	--	2282.31	--	--		84.53	78.88
						Volume Weighted Average:	0.93

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-2

PARCEL I9-4-12

SPATIAL AVERAGE 1- TO X- (1- TO 5) FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SB-01	101	2089.21	1 - 3	ND (0.039)	0.0195	154.76	3.02
1A-SB-02	140	192.99	1 - 3	6.4	6.4	14.30	91.49
1A-SB-01	21	2089.21	3 - 5	ND (0.044)	0.022	154.76	3.40
1A-SB-02	29	192.99	3 - 5	0.203	0.203	14.30	2.90
1A-SB-02	401	2282.21	5 - 7	ND(0.049)	*	*	*
Totals:	--	6846.62		--		338.10	100.82
						Volume Weighted Average:	0.30

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.
3. * - Not included in spatial average calculations since PCBs not detected at this depth.

PCB Spatial Average Evaluation

Parcel I8-24-301

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engineers & scientists

TABLE C-3

PARCEL 18-24-301
SPATIAL AVERAGE 0- TO 1-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-01	316/323	175.45	0 - 1	2.24	2.24	6.50	14.56
1A-SS-02	318	260.69	0 - 1	ND (0.038)	0.019	9.66	0.18
1A-SS-03	266/322	475.86	0 - 1	0.35	0.35	17.62	6.17
1A-SS-04	271	541.84	0 - 1	0.082	0.082	20.07	1.65
1A-SS-05	265	1209.94	0 - 1	0.34	0.34	44.81	15.24
1A-SS-06	264	650.66	0 - 1	1.4	1.4	24.10	33.74
1A-SS-07	272	470.15	0 - 1	0.66[0.67]	0.665	17.41	11.58
1A-SS-08	263	3534.77	0 - 1	0.3	0.3	130.92	39.28
1A-SS-09	262	546.25	0 - 1	0.74	0.74	20.23	14.97
1A-SS-10	312	43.81	0 - 1	1.39	1.39	1.62	2.26
1A-SS-11	310	6.57	0 - 1	0.19	0.19	0.24	0.05
1A-SS-16	324	4012.56	0 - 1	1.3	1.3	148.61	193.20
1A-SB-02	270	214.63	0 - 1	ND (0.036)	0.018	7.95	0.14
1A-SB-03	261	579.51	0 - 1	0.73	0.73	21.46	15.67
1A-SB-04	260	401.91	0 - 1	0.54	0.54	14.89	8.04
RAA12-Y2	365	177.28	0 - 1	1.14	1.14	6.57	7.49
Totals:	--	13301.87	--	--		492.66	364.19
						Volume Weighted Average:	0.74

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. [] - Duplicate sample result, values averaged for calculations.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-4

PARCEL 18-24-301
 SPATIAL AVERAGE 1- TO X- (1- TO 5) FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SB-01	122	2531.81	1 - 3	ND (0.039)	0.0195	187.54	3.66
1A-SB-02	102	1673.63	1 - 3	6.4	6.4	123.97	793.43
1A-SB-03	100	8091.97	1 - 3	0.90[0.15]	0.525	599.40	314.69
1A-SB-04	99	1005.97	1 - 3	0.23	0.23	74.52	17.14
1A-SB-01	24	2531.81	3 - 5	ND (0.044)	0.022	187.54	4.13
1A-SB-02	22	1673.63	3 - 5	0.203	0.203	123.97	25.17
1A-SB-03	20	8091.97	3 - 5	ND(0.041)	0.0205	599.40	12.29
1A-SB-04	19	1005.97	3 - 5	ND(0.040)	0.02	74.52	1.49
1A-SB-02	402	13308.38	5 - 7	ND (0.049)	*	*	*
Totals:	--	39915.14	--	--		1970.87	1171.98
						Volume Weighted Average:	0.59

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. [] - Duplicate sample result, values averaged for calculations.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.
4. * - Not included in spatial average calculations since PCBs not detected at this depth.

PCB Spatial Average Evaluation

Parcel 18-24-101

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TABLE C-5

**PARCEL I8-24-101
SPATIAL AVERAGE 0- TO 1-FOOT DEPTH INTERVAL**

**PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-12	273	650.55	0 - 1	1.54	1.54	24.09	37.11
1A-SS-15	275	331.09	0 - 1	0.9	0.9	12.26	11.04
1A-SB-07	274	859.47	0 - 1	2.14	2.14	31.83	68.12
1B-SB-01	354	4.09	0 - 1	0.41	0.41	0.15	0.06
RAA12-AA4	355	65.98	0 - 1	0.222	0.222	2.44	0.54
I8-24-5C	276	598.46	0 - 0.5	2.1	2.1	11.08	23.27
I8-24-5C	276	598.46	0.5 - 1	0.78	0.78	11.08	8.64
Totals:	--	3108.10	--	--		92.94	148.78
						Volume Weighted Average:	1.60

Note:

1. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-6

PARCEL I8-24-101
 SPATIAL AVERAGE 1- TO 3-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SB-07	103	2277.36	1 - 3	2.3	2.3	168.69	388.00
1B-SB-01	142	218.93	1 - 3	0.89	0.89	16.22	14.43
RAA12-Z4	144	17.33	1 - 3	0.43	0.43	1.28	0.55
Totals:	--	2513.62	--	--		186.19	402.98
						Volume Weighted Average:	2.16

Note:

1. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-7

PARCEL I8-24-101
SPATIAL AVERAGE 0- TO 15-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-12	205	650.55	0 - 1	1.54	1.54	24.09	37.11
1A-SS-15	207	331.09	0 - 1	0.9	0.9	12.26	11.04
1A-SB-07	206	859.47	0 - 1	2.14	2.14	31.83	68.12
1B-SB-01	280	4.09	0 - 1	0.41	0.41	0.15	0.06
RAA12-AA4	281	65.98	0 - 1	0.222	0.222	2.44	0.54
I8-24-5C	276	598.46	0 - 0.5	2.1	2.1	11.08	23.27
I8-24-5C	276	598.46	0.5 - 1	0.78	0.78	11.08	8.64
1A-SB-07	103	2277.36	1 - 3	2.3	2.3	168.69	388.00
1B-SB-01	142	218.93	1 - 3	0.89	0.89	16.22	14.43
RAA12-Z4	144	17.33	1 - 3	0.43	0.43	1.28	0.55
1A-SB-07	57	2277.36	3 - 6	2.19	2.19	253.04	554.16
1B-SB-01	83	218.93	3 - 6	0.49	0.49	24.33	11.92
RAA12-Z4	85	17.33	3 - 6	0.51	0.51	1.93	0.98
1A-SB-07	94	2277.36	6 - 10	0.29	0.29	337.39	97.84
1B-SB-01	112	218.93	6 - 10	ND(0.055)	0.0275	32.43	0.89
RAA12-Z4	114	17.33	6 - 10	ND(0.046)	0.023	2.57	0.06
1A-SB-07	25	2496.29	10 - 15	ND(0.093)	0.0465	462.28	21.50
RAA12-Z4	36	17.33	10 - 15	ND(0.042)	0.021	3.21	0.07
Totals:	--	13162.60	--	--		1396.31	1239.18
						Volume Weighted Average:	0.89

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-8

PARCEL I8-24-101
 SPATIAL AVERAGE, 1- TO X- (1- TO 10) FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SB-07	103	2277.36	1 - 3	2.3	2.3	168.69	388.00
1B-SB-01	142	218.93	1 - 3	0.89	0.89	16.22	14.43
RAA12-Z4	144	17.33	1 - 3	0.43	0.43	1.28	0.55
1A-SB-07	57	2277.36	3 - 6	2.19	2.19	253.04	554.16
1B-SB-01	83	218.93	3 - 6	0.49	0.49	24.33	11.92
RAA12-Z4	85	17.33	3 - 6	0.51	0.51	1.93	0.98
1A-SB-07	94	2277.36	6 - 10	0.29	0.29	337.39	97.84
1B-SB-01	112	218.93	6 - 10	ND(0.055)	0.0275	32.43	0.89
RAA12-Z4	114	17.33	6 - 10	ND(0.046)	0.023	2.57	0.06
1A-SB-07	25	2496.29	10 - 15	ND(0.093)	*	*	*
RAA12-Z4	36	17.33	10 - 15	ND(0.042)	*	*	*
Totals:	--	10054.49	--	--		837.87	1068.83
						Volume Weighted Average:	1.28

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.
3. * - Not included in spatial average calculations since PCBs not detected at this depth.

PCB Spatial Average Evaluation

Parcel 18-24-5

TABLE C-9

PARCEL I8-24-5
SPATIAL AVERAGE 0- TO 1-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-10	256	953.76	0 - 1	1.39	1.39	35.32	49.10
1A-SS-11	257	1010.27	0 - 1	0.19	0.19	37.42	7.11
1A-SS-12	340	19.37	0 - 1	1.54	1.54	0.72	1.11
1A-SS-13	255	1204.99	0 - 1	0.72	0.72	44.63	32.13
1A-SS-14	335	1029.22	0 - 1	0.242	0.242	38.12	9.22
1A-SS-15	331	155.64	0 - 1	0.9	0.9	5.76	5.19
1B-SS-01	352	12.27	0 - 1	0.35[0.21]	0.28	0.45	0.13
RAA12-AA4	338	147.14	0 - 1	0.222	0.222	5.45	1.21
I8-24-5C	329	51.13	0 - 1	1.44	1.44	1.89	2.73
1A-SB-04	311	35.84	0 - 1	0.54	0.54	1.33	0.72
1A-SB-05	258	1407.45	0 - 1	0.58	0.58	52.13	30.23
1A-SB-06	259	1397.87	0 - 1	0.81	0.81	51.77	41.94
1A-SB-07	327	87.51	0 - 1	2.14	2.14	3.24	6.94
1B-SB-01	333	168.24	0 - 1	0.41	0.41	6.23	2.55
Totals:	--	7680.69	--	--		284.47	190.30
						Volume Weighted Average:	0.67

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. [] - Duplicate sample result, values averaged for calculations.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-10

PARCEL I8-24-5
SPATIAL AVERAGE 0- TO 3-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-10	188	953.762596	0 - 1	1.39	1.39	35.32	49.10
1A-SS-11	189	1010.27	0 - 1	0.19	0.19	37.42	7.11
1A-SS-12	266	19.37	0 - 1	1.54	1.54	0.72	1.11
1A-SS-13	187	1204.99	0 - 1	0.72	0.72	44.63	32.13
1A-SS-14	261	1029.22	0 - 1	0.242	0.242	38.12	9.22
1A-SS-15	257	155.64	0 - 1	0.9	0.9	5.76	5.19
1B-SS-01	278	12.27	0 - 1	0.35[0.21]	0.28	0.45	0.13
RAA12-AA4	264	147.14	0 - 1	0.222	0.222	5.45	1.21
I8-24-5C	255	51.13	0 - 1	1.44	1.44	1.89	2.73
1A-SB-04	241	35.84	0 - 1	0.54	0.54	1.33	0.72
1A-SB-05	190	1407.45	0 - 1	0.58	0.58	52.13	30.23
1A-SB-06	191	1397.87	0 - 1	0.81	0.81	51.77	41.94
1A-SB-07	253	87.51	0 - 1	2.14	2.14	3.24	6.94
1B-SB-01	259	168.24	0 - 1	0.41	0.41	6.23	2.55
1A-SB-03	120	11.73	1 - 3	0.090[0.15]	0.12	1.30	0.16
1A-SB-04	119	1048.70	1 - 3	0.23	0.23	77.68	17.87
1A-SB-05	97	2711.03	1 - 3	0.48	0.48	200.82	96.39
1A-SB-06	98	2308.25	1 - 3	0.155	0.155	170.98	26.50
1A-SB-07	127	260.26	1 - 3	2.3	2.3	19.28	44.34
1B-SB-01	131	1193.25	1 - 3	0.89	0.89	88.39	78.67
1B-SB-02	141	34.66	1 - 3	ND(0.038)	0.019	2.57	0.05
RAA12-Z4	143	110.76	1 - 3	0.43	0.43	12.31	5.29
Totals:	--	15359.33	--	--	--	857.80	459.57
						Volume Weighted Average:	0.54

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-11

PARCEL 18-24-5
SPATIAL AVERAGE 1- TO 6-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SB-03	120	11.73	1 - 3	0.090[0.15]	0.12	0.87	0.10
1A-SB-04	119	1048.70	1 - 3	0.23	0.23	77.68	17.87
1A-SB-05	97	2711.03	1 - 3	0.48	0.48	200.82	96.39
1A-SB-06	98	2308.25	1 - 3	0.155	0.155	170.98	26.50
1A-SB-07	127	260.26	1 - 3	2.3	2.3	19.28	44.34
1B-SB-01	131	1193.25	1 - 3	0.89	0.89	88.39	78.67
1B-SB-02	141	34.66	1 - 3	ND(0.038)	0.019	2.57	0.05
RAA12-Z4	143	110.76	1 - 3	0.43	0.43	8.20	3.53
1A-SB-05	55	3346.30	3 - 6	0.15[0.086]	0.118	371.81	43.87
1A-SB-06	56	2715.01	3 - 6	0.53	0.53	301.67	159.88
1A-SB-07	69	260.26	3 - 6	2.19	2.19	28.92	63.33
1B-SB-01	73	1193.25	3 - 6	0.49	0.49	132.58	64.97
1B-SB-02	82	34.66	3 - 6	ND(0.035)	0.0175	3.85	0.07
RAA12-Z4	84	129.06	3 - 6	0.51	0.51	14.34	7.31
Totals:	--	15357.18	--	--		1421.96	606.88
						Volume Weighted Average:	0.43

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-12

PARCEL I8-24-5
SPATIAL AVERAGE 0- TO 15-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-10	188	953.76	0 - 1	1.39	1.39	35.32	49.10
1A-SS-11	189	1010.27	0 - 1	0.19	0.19	37.42	7.11
1A-SS-12	266	19.37	0 - 1	1.54	1.54	0.72	1.11
1A-SS-13	187	1204.99	0 - 1	0.72	0.72	44.63	32.13
1A-SS-14	261	1029.22	0 - 1	0.242	0.242	38.12	9.22
1A-SS-15	257	155.64	0 - 1	0.9	0.9	5.76	5.19
1B-SS-01	278	12.27	0 - 1	0.35[0.21]	0.28	0.45	0.13
RAA12-AA4	264	147.14	0 - 1	0.222	0.222	5.45	1.21
I8-24-5C	255	51.13	0 - 1	1.44	1.44	1.89	2.73
1A-SB-04	241	35.84	0 - 1	0.54	0.54	1.33	0.72
1A-SB-05	190	1407.45	0 - 1	0.58	0.58	52.13	30.23
1A-SB-06	191	1397.87	0 - 1	0.81	0.81	51.77	41.94
1A-SB-07	253	87.51	0 - 1	2.14	2.14	3.24	6.94
1B-SB-01	259	168.24	0 - 1	0.41	0.41	6.23	2.55
1A-SB-03	120	11.73	1 - 3	0.090[0.15]	0.12	0.87	0.10
1A-SB-04	119	1048.70	1 - 3	0.23	0.23	77.68	17.87
1A-SB-05	97	2711.03	1 - 3	0.48	0.48	200.82	96.39
1A-SB-06	98	2308.25	1 - 3	0.155	0.155	170.98	26.50
1A-SB-07	127	260.26	1 - 3	2.3	2.3	19.28	44.34
1B-SB-01	131	1193.25	1 - 3	0.89	0.89	88.39	78.67
1B-SB-02	141	34.66	1 - 3	ND(0.038)	0.019	2.57	0.05
RAA12-Z4	143	110.76	1 - 3	0.43	0.43	8.20	3.53
1A-SB-05	55	3346.30	3 - 6	0.15[0.086]	0.118	371.81	43.87
1A-SB-06	56	2715.01	3 - 6	0.53	0.53	301.67	159.88
1A-SB-07	69	260.26	3 - 6	2.19	2.19	28.92	63.33
1B-SB-01	73	1193.25	3 - 6	0.49	0.49	132.58	64.97
1B-SB-02	82	34.66	3 - 6	ND(0.035)	0.0175	3.85	0.07
RAA12-Z4	84	129.06	3 - 6	0.51	0.51	14.34	7.31

TABLE C-12

PARCEL I8-24-5
 SPATIAL AVERAGE 0- TO 15-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
H2-BH000860-0-0080	116	1060.21	8 - 8.6	ND (0.035)	0.0175	157.07	2.75
1A-SB-05	92	2745.79	6 - 10	0.2	0.2	406.78	81.36
1A-SB-06	93	2308.25	6 - 10	ND(0.061)	0.0305	341.96	10.43
1A-SB-07	99	260.26	6 - 10	0.29	0.29	38.56	11.18
1B-SB-01	103	1193.25	6 - 10	ND(0.055)	0.0275	176.78	4.86
RAA12-Z4	113	110.76	6 - 10	ND(0.046)	0.023	16.41	0.38
1A-SB-05	24	6239.34	10 - 15	0.087	0.087	1155.43	100.52
1A-SB-07	27	1059.78	10 - 15	ND(0.093)	0.0465	196.26	9.13
RAA12-Z4	29	381.46	10 - 15	ND(0.042)	0.021	211.92	4.45
Totals:	--	38396.99	--	--		4407.60	1022.24
						Volume Weighted Average:	0.23

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-13

PARCEL I8-24-5
SPATIAL AVERAGE 1- TO X- (1 - TO 15) FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SB-03	120	11.73	1 - 3	0.090[0.15]	0.12	0.87	0.10
1A-SB-04	119	1048.70	1 - 3	0.23	0.23	77.68	17.87
1A-SB-05	97	2711.03	1 - 3	0.48	0.48	200.82	96.39
1A-SB-06	98	2308.25	1 - 3	0.155	0.155	170.98	26.50
1A-SB-07	127	260.26	1 - 3	2.3	2.3	19.28	44.34
1B-SB-01	131	1193.25	1 - 3	0.89	0.89	88.39	78.67
1B-SB-02	141	34.66	1 - 3	ND(0.038)	0.019	2.57	0.05
RAA12-Z4	143	110.76	1 - 3	0.43	0.43	8.20	3.53
1A-SB-05	55	3346.30	3 - 6	0.15[0.086]	0.118	371.81	43.87
1A-SB-06	56	2715.01	3 - 6	0.53	0.53	301.67	159.88
1A-SB-07	69	260.26	3 - 6	2.19	2.19	28.92	63.33
1B-SB-01	73	1193.25	3 - 6	0.49	0.49	132.58	64.97
1B-SB-02	82	34.66	3 - 6	ND(0.035)	0.0175	3.85	0.07
RAA12-Z4	84	129.06	3 - 6	0.51	0.51	14.34	7.31
H2-BH000860-0-0080	116	1060.21	8 - 8.6	ND(0.035)	0.0175	157.07	2.75
1A-SB-05	92	2745.79	6 - 10	0.2	0.2	406.78	81.36
1A-SB-06	93	2308.25	6 - 10	ND(0.061)	0.0305	341.96	10.43
1A-SB-07	99	260.26	6 - 10	0.29	0.29	38.56	11.18
1B-SB-01	103	1193.25	6 - 10	ND(0.055)	0.0275	176.78	4.86
RAA12-Z4	113	110.76	6 - 10	ND(0.046)	0.023	16.41	0.38
1A-SB-05	24	6239.34	10 - 15	0.087	0.087	1155.43	100.52
1A-SB-07	27	1059.78	10 - 15	ND(0.093)	0.0465	196.26	9.13
RAA12-Z4	29	381.46	10 - 15	ND(0.042)	0.021	211.92	4.45
Totals:	--	30716.30	--	--		4123.13	831.94
						Volume Weighted Average:	0.20

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

PCB Spatial Average Evaluation

Parcel I8-24-1

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

TABLE C-14

PARCEL I8-24-1
SPATIAL AVERAGE 0- TO 1-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-13	351	483.07	0 - 1	0.72	0.72	17.89	12.88
1A-SS-14	353	147.78	0 - 1	0.242	0.242	5.47	1.32
1B-SS-01	304	2905.53	0 - 1	0.35[0.21]	0.28	107.61	30.13
1B-SS-02	302	10303.99	0 - 1	0.127	0.127	381.63	48.47
1B-SS-03	300	1851.45	0 - 1	0.74	0.74	68.57	50.74
1B-SS-04	299	4522.97	0 - 1	0.67[0.95]	0.81	167.52	135.69
1B-SS-05	296	6335.13	0 - 1	0.42	0.42	234.63	98.55
1B-SS-06	298	3097.87	0 - 1	0.98	0.98	114.74	112.44
1B-SS-07	290	7247.56	0 - 1	ND(0.044)	0.022	268.43	5.91
1B-SS-08	363	418.92	0 - 1	0.27	0.27	15.52	4.19
1B-SS-09	293	3192.59	0 - 1	1.7	1.7	118.24	201.02
1B-SS-10	294	2003.97	0 - 1	0.21	0.21	74.22	15.59
1B-SS-11	284	5080.10	0 - 1	0.17	0.17	188.15	31.99
1B-SS-12	292	2255.51	0 - 1	0.18	0.18	83.54	15.04
1B-SS-13	285	2986.58	0 - 1	0.26	0.26	110.61	28.76
1B-SS-14	291	2232.26	0 - 1	1.4	1.4	82.68	115.75
1B-SS-15	282	2520.62	0 - 1	0.087	0.087	93.36	8.12
1B-SS-16	286	2030.98	0 - 1	1.5	1.5	75.22	112.83
1B-SS-17	367	1042.45	0 - 1	0.74	0.74	38.61	28.57
1B-SS-18	360	616.32	0 - 1	14	14	22.83	319.58
1B-SS-19	281	2229.57	0 - 1	0.17	0.17	82.58	14.04
1B-SS-20	356	1789.23	0 - 1	ND(0.053)	0.0265	66.27	1.76
1B-SB-01	303	485.01	0 - 1	0.41	0.41	17.96	7.36
1B-SB-02	301	5687.59	0 - 1	0.58	0.58	210.65	122.18
1B-SB-03	278	15889.66	0 - 1	0.36	0.36	588.51	211.86
1B-SB-04	289	19736.57	0 - 1	0.037J	0.037	730.98	27.05
1B-SB-05	297	1784.39	0 - 1	1.1	1.1	66.09	72.70
1B-SB-06	295	2525.57	0 - 1	5.9	5.9	93.54	551.88
1B-SB-07	288	2715.87	0 - 1	2.6	2.6	100.59	261.53
1B-SB-08	283	3673.94	0 - 1	1.05	1.05	136.07	142.88
1B-SB-09	361	468.00	0 - 1	5.7	5.7	17.33	98.80
1B-SB-10	287	1376.34	0 - 1	1.72	1.72	50.98	87.68
1B-SB-11	279	20768.26	0 - 1	0.222	0.222	769.19	170.76

TABLE C-14

PARCEL I8-24-1

SPATIAL AVERAGE 0- TO 1-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1B-SB-12	345	2129.26	0 - 1	0.17	0.17	78.86	13.41
1B-SB-13	280	1636.28	0 - 1	0.3	0.3	60.60	18.18
BS000164	277	1001.34	0 - 1	5.3J	5.3	37.09	196.56
BS000165	305	707.92	0 - 1	1.3J	1.3	26.22	34.09
BS000166	362	332.27	0 - 1	4.6J	4.6	12.31	56.61
BS000167	306	610.30	0 - 1	2.3J	2.3	22.60	51.99
RB010981	307	773.26	0 - 0.5	151J	151	28.64	4324.51
RB010982	359	6.46	0 - 0.5	39J	39	0.24	9.33
RB011001	358	41.87	0 - 0.5	156	156	1.55	241.92
RB011021	357	56.83	0 - 0.5	27.8J	27.8	2.10	58.52
RB011041	368	1.40	0 - 0.5	5.3	5.3	0.05	0.27
Totals:	--	147702.86	--	--		5470.48	8153.40
						Volume Weighted Average:	1.49

Notes:

1. J - Indicates an estimated value less than the practical quantitation limit (PQL).
2. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
3. [] - Duplicate sample result, values averaged for calculations.
4. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-15

PARCEL I8-24-1

SPATIAL AVERAGE 0- TO 3-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-13	277	483.070368	0 - 1	0.72	0.72	17.89	12.88
1A-SS-14	279	147.78	0 - 1	0.242	0.242	5.47	1.32
1B-SS-01	236	2905.53	0 - 1	0.35[0.21]	0.28	107.61	30.13
1B-SS-02	234	10303.99	0 - 1	0.127	0.127	381.63	48.47
1B-SS-03	232	1851.45	0 - 1	0.74	0.74	68.57	50.74
1B-SS-04	231	4522.97	0 - 1	0.67[0.95]	0.81	167.52	135.69
1B-SS-05	228	6335.13	0 - 1	0.42	0.42	234.63	98.55
1B-SS-06	230	3097.87	0 - 1	0.98	0.98	114.74	112.44
1B-SS-07	222	7247.56	0 - 1	ND(0.044)	0.022	268.43	5.91
1B-SS-08	291	418.92	0 - 1	0.27	0.27	15.52	4.19
1B-SS-09	225	3192.59	0 - 1	1.7	1.7	118.24	201.02
1B-SS-10	226	2003.97	0 - 1	0.21	0.21	74.22	15.59
1B-SS-11	216	5080.10	0 - 1	0.17	0.17	188.15	31.99
1B-SS-12	224	2255.51	0 - 1	0.18	0.18	83.54	15.04
1B-SS-13	217	2986.58	0 - 1	0.26	0.26	110.61	28.76
1B-SS-14	223	2232.26	0 - 1	1.4	1.4	82.68	115.75
1B-SS-15	214	2520.62	0 - 1	0.087	0.087	93.36	8.12
1B-SS-16	218	2030.98	0 - 1	1.5	1.5	75.22	112.83
1B-SS-17	286	1042.45	0 - 1	0.74	0.74	38.61	28.57
1B-SS-18	288	616.32	0 - 1	14	14	22.83	319.58
1B-SS-19	213	2229.57	0 - 1	0.17	0.17	82.58	14.04
1B-SS-20	282	1789.23	0 - 1	ND(0.053)	0.0265	66.27	1.76
1B-SB-01	235	485.01	0 - 1	0.41	0.41	17.96	7.36
1B-SB-02	233	5687.59	0 - 1	0.58	0.58	210.65	122.18
1B-SB-03	210	15889.66	0 - 1	0.36	0.36	588.51	211.86
1B-SB-04	221	19736.57	0 - 1	0.037J	0.037	730.98	27.05
1B-SB-05	229	1784.39	0 - 1	1.1	1.1	66.09	72.70
1B-SB-06	227	2525.57	0 - 1	5.9	5.9	93.54	551.88
1B-SB-07	220	2715.87	0 - 1	2.6	2.6	100.59	261.53
1B-SB-08	215	3673.94	0 - 1	1.05	1.05	136.07	142.88
1B-SB-09	289	468.00	0 - 1	5.7	5.7	17.33	98.80
1B-SB-10	219	1376.34	0 - 1	1.72	1.72	50.98	87.68
1B-SB-11	211	20768.26	0 - 1	0.222	0.222	769.19	170.76

TABLE C-15

PARCEL I8-24-1

SPATIAL AVERAGE 0- TO 3-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1B-SB-12	271	2140.02	0 - 1	0.17	0.17	79.26	13.47
1B-SB-13	212	1636.28	0 - 1	0.3	0.3	60.60	18.18
BS-000164	209	1001.34	0 - 1	5.3J	5.3	37.09	196.56
BS-000165	237	707.92	0 - 1	1.3J	1.3	26.22	34.09
BS-000166	290	332.27	0 - 1	4.6J	4.6	12.31	56.61
BS-000167	238	610.30	0 - 1	2.3J	2.3	22.60	51.99
RB010981	239	773.26	0 - 0.5	151J	151	28.64	4324.51
RB010982	287	6.46	0 - 0.5	39J	39	0.24	9.33
RB011001	285	41.87	0 - 0.5	156	156	1.55	241.92
RB011021	284	56.83	0 - 0.5	27.8J	27.8	2.10	58.52
RB011041	283	1.40	0 - 0.5	5.3	5.3	0.05	0.27
1B-SB-01	115	1137.60	1 - 3	0.89	0.89	84.27	75.00
1B-SB-02	114	15146.86	1 - 3	ND(0.038)	0.019	1121.99	21.32
1B-SB-03	105	23690.04	1 - 3	0.178	0.178	1754.82	312.36
1B-SB-04	111	21024.97	1 - 3	ND(0.044)	0.022	1557.41	34.26
1B-SB-05	113	5291.17	1 - 3	ND(0.035)	0.0175	391.94	6.86
1B-SB-06	112	12426.47	1 - 3	0.5	0.5	920.48	460.24
1B-SB-07	110	11472.49	1 - 3	0.25	0.25	849.81	212.45
1B-SB-08	108	7353.48	1 - 3	ND(0.36)	0.18	544.70	98.05
1B-SB-09	150	1234.48	1 - 3	0.37	0.37	91.44	33.83
1B-SB-10	109	4470.34	1 - 3	ND(0.035)	0.0175	331.14	5.79
1B-SB-11	106	21486.51	1 - 3	0.043	0.043	1591.59	68.44
1B-SB-12	135/139	3755.31	1 - 3	ND(0.044)[ND(0.044)]	0.022	278.17	6.12
1B-SB-13	107	3034.90	1 - 3	0.73	0.73	224.81	164.11
BS000164	104	3401.08	1 - 2	0.43J	0.43	125.97	54.17
BS000164	104	3401.08	2 - 3	0.29J	0.29	125.97	36.53
BS000165	116	2490.27	1 - 2	0.74J	0.74	92.23	68.25
BS000165	116	2490.27	2 - 3	0.25J[0.24J]	0.245	92.23	22.60
BS000166	151	2317.51	1 - 2	0.15J	0.15	85.83	12.88
BS000166	151	2317.51	2 - 3	0.024J	0.024	85.83	2.06
BS000167	117	2076.08	1 - 2	0.15J	0.15	76.89	11.53
BS000167	117	2076.08	2 - 3	0.3J	0.3	76.89	23.07
RB010981	118	3329.40	1 - 1.5	16.2	16.2	123.32	1997.78

TABLE C-15

PARCEL 18-24-1
 SPATIAL AVERAGE 0- TO 3-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
RB010981	118	3329.40	2 - 2.5	8.47J	8.47	123.32	1044.52
RB010982	149	99.56	1 - 1.5	42.6J	42.6	3.68	156.77
RB011001	148	1123.83	1 - 1.5	28	28	41.62	1165.36
RB011001	148	1123.83	2 - 2.5	43	43	41.62	1789.66
RB011021	147	149.40	1 - 1.5	58.4J	58.4	5.54	323.54
RB0011021	147	149.40	2 - 2.5	118J	118	5.54	653.72
RB0011041	146	508.69	1 - 1.5	3.01J	3.01	18.84	56.71
RB0011041	146	508.69	2 - 2.5	3.61J	3.61	18.84	68.01
RB021061	145	693.07	1 - 1.5	3.39J	3.39	25.66	86.99
RB021061	145	693.07	2 - 2.5	1.22J	1.22	25.66	31.31
Totals:	--	311516.4516	--	--		16408.93	17257.74
						Volume Weighted Average:	1.05

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-16

PARCEL 18-24-1
SPATIAL AVERAGE 1- TO 6-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1B-SB-01	115	1137.60	1 - 3	0.89	0.89	84.27	75.00
1B-SB-02	114	15146.86	1 - 3	ND(0.038)	0.019	1121.99	21.32
1B-SB-03	105	23690.04	1 - 3	0.178	0.178	1754.82	312.36
1B-SB-04	111	21024.97	1 - 3	ND(0.044)	0.022	1557.41	34.26
1B-SB-05	113	5291.17	1 - 3	ND(0.035)	0.0175	391.94	6.86
1B-SB-06	112	12426.47	1 - 3	0.5	0.5	920.48	460.24
1B-SB-07	110	11472.49	1 - 3	0.25	0.25	849.81	212.45
1B-SB-08	108	7353.48	1 - 3	ND(0.36)	0.18	544.70	98.05
1B-SB-09	150	1234.48	1 - 3	0.37	0.37	91.44	33.83
1B-SB-10	109	4470.34	1 - 3	ND(0.035)	0.0175	331.14	5.79
1B-SB-11	106	21486.51	1 - 3	0.043	0.043	1591.59	68.44
1B-SB-12	135/139	3755.31	1 - 3	ND(0.044)[ND(0.044)]	0.022	278.17	6.12
1B-SB-13	107	3034.90	1 - 3	0.73	0.73	224.81	164.11
BS000164	104	3401.08	1 - 2	0.43J	0.43	125.97	54.17
BS000164	104	3401.08	2 - 3	0.29J	0.29	125.97	36.53
BS000165	116	2490.27	1 - 2	0.74J	0.74	92.23	68.25
BS000165	116	2490.27	2 - 3	0.25J[0.24J]	0.245	92.23	22.60
BS000166	151	2317.51	1 - 2	0.15J	0.15	85.83	12.88
BS000166	151	2317.51	2 - 3	0.024J	0.024	85.83	2.06
BS000167	117	2076.08	1 - 2	0.15J	0.15	76.89	11.53
BS000167	117	2076.08	2 - 3	0.3J	0.3	76.89	23.07
RB010981	118	3329.40	1 - 1.5	16.2	16.2	123.32	1997.78
RB010981	118	3329.40	2 - 2.5	8.47J	8.47	123.32	1044.52
RB010982	149	99.56	1 - 1.5	42.6J	42.6	3.68	156.77
RB011001	148	1123.83	1 - 1.5	28	28	41.62	1165.36
RB011001	148	1123.83	2 - 2.5	43	43	41.62	1789.66
RB011021	147	149.40	1 - 1.5	58.4J	58.4	5.54	323.54
RB0011021	147	149.40	2 - 2.5	118J	118	5.54	653.72

TABLE C-16

**PARCEL I8-24-1
SPATIAL AVERAGE 1- TO 6-FOOT DEPTH INTERVAL**

**PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
RB0011041	146	508.69	1 - 1.5	3.01J	3.01	18.84	56.71
RB0011041	146	508.69	2 - 2.5	3.61J	3.61	18.84	68.01
RB021061	145	693.07	1 - 1.5	3.39J	3.39	25.66	86.99
RB021061	145	693.07	2 - 2.5	1.22J	1.22	25.66	31.31
1B-SB-01	68	3798.58	3 - 6	0.49	0.49	422.06	206.81
1B-SB-02	67	15707.43	3 - 6	ND(0.035)	0.0175	1745.27	30.54
1B-SB-03	58	23690.04	3 - 6	0.036J	0.036	2632.23	94.76
1B-SB-04	64	21024.97	3 - 6	0.044J	0.044	2336.11	102.79
1B-SB-05	66	9147.45	3 - 6	ND(0.035)	0.0175	1016.38	17.79
1B-SB-06	65	12972.08	3 - 6	ND(0.034)	0.017	1441.34	24.50
1B-SB-07	63	14387.06	3 - 6	ND(0.035)	0.0175	1598.56	27.97
1B-SB-08	61	7498.14	3 - 6	1.1	1.1	833.13	916.44
1B-SB-09	86	4934.46	3 - 6	ND(0.045)[ND(0.046)]	0.0228	548.27	12.50
1B-SB-10	62	5070.30	3 - 6	ND(0.034)	0.017	563.37	9.58
1B-SB-11	59	21595.87	3 - 6	0.34	0.34	2399.54	815.84
1B-SB-12	7781	4135.59	3 - 6	0.11	0.11	459.51	50.55
1B-SB-13	60	3751.76	3 - 6	0.13	0.13	416.86	54.19
Totals:	--	311516.56	--	--		27350.69	11468.54
						Volume Weighted Average:	0.42

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-17

PARCEL 18-24-1
SPATIAL AVERAGE 0- TO 15-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1A-SS-13	277	483.070368	0 - 1	0.72	0.72	17.89	12.88
1A-SS-14	279	147.78	0 - 1	0.242	0.242	5.47	1.32
1B-SS-01	236	2905.53	0 - 1	0.35[0.21]	0.28	107.61	30.13
1B-SS-02	234	10303.99	0 - 1	0.127	0.127	381.63	48.47
1B-SS-03	232	1851.45	0 - 1	0.74	0.74	68.57	50.74
1B-SS-04	231	4522.97	0 - 1	0.67[0.95]	0.81	167.52	135.69
1B-SS-05	228	6335.13	0 - 1	0.42	0.42	234.63	98.55
1B-SS-06	230	3097.87	0 - 1	0.98	0.98	114.74	112.44
1B-SS-07	222	7247.56	0 - 1	ND(0.044)	0.022	268.43	5.91
1B-SS-08	291	418.92	0 - 1	0.27	0.27	15.52	4.19
1B-SS-09	225	3192.59	0 - 1	1.7	1.7	118.24	201.02
1B-SS-10	226	2003.97	0 - 1	0.21	0.21	74.22	15.59
1B-SS-11	216	5080.10	0 - 1	0.17	0.17	188.15	31.99
1B-SS-12	224	2255.51	0 - 1	0.18	0.18	83.54	15.04
1B-SS-13	217	2986.58	0 - 1	0.26	0.26	110.61	28.76
1B-SS-14	223	2232.26	0 - 1	1.4	1.4	82.68	115.75
1B-SS-15	214	2520.62	0 - 1	0.087	0.087	93.36	8.12
1B-SS-16	218	2030.98	0 - 1	1.5	1.5	75.22	112.83
1B-SS-17	286	1042.45	0 - 1	0.74	0.74	38.61	28.57
1B-SS-18	288	616.32	0 - 1	14	14	22.83	319.58
1B-SS-19	213	2229.57	0 - 1	0.17	0.17	82.58	14.04
1B-SS-20	282	1789.23	0 - 1	ND(0.053)	0.0265	66.27	1.76
1B-SB-01	235	485.01	0 - 1	0.41	0.41	17.96	7.36
1B-SB-02	233	5687.59	0 - 1	0.58	0.58	210.65	122.18
1B-SB-03	210	15889.66	0 - 1	0.36	0.36	588.51	211.86
1B-SB-04	221	19736.57	0 - 1	0.037J	0.037	730.98	27.05
1B-SB-05	229	1784.39	0 - 1	1.1	1.1	66.09	72.70
1B-SB-06	227	2525.57	0 - 1	5.9	5.9	93.54	551.88
1B-SB-07	220	2715.87	0 - 1	2.6	2.6	100.59	261.53
1B-SB-08	215	3673.94	0 - 1	1.05	1.05	136.07	142.88

TABLE C-17

PARCEL 18-24-1
SPATIAL AVERAGE 0- TO 15-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1B-SB-09	289	468.00	0 - 1	5.7	5.7	17.33	98.80
1B-SB-10	219	1376.34	0 - 1	1.72	1.72	50.98	87.68
1B-SB-11	211	20768.26	0 - 1	0.222	0.222	769.19	170.76
1B-SB-12	271	2140.02	0 - 1	0.17	0.17	79.26	13.47
1B-SB-13	212	1636.28	0 - 1	0.3	0.3	60.60	18.18
BS-000164	209	1001.34	0 - 1	5.3J	5.3	37.09	196.56
BS-000165	237	707.92	0 - 1	1.3J	1.3	26.22	34.09
BS-000166	290	332.27	0 - 1	4.6J	4.6	12.31	56.61
BS-000167	238	610.30	0 - 1	2.3J	2.3	22.60	51.99
RB010981	239	773.26	0 - 0.5	151J	151	28.64	4324.51
RB010982	287	6.46	0 - 0.5	39J	39	0.24	9.33
RB011001	285	41.87	0 - 0.5	156	156	1.55	241.92
RB011021	284	56.83	0 - 0.5	27.8J	27.8	2.10	58.52
RB011041	283	1.40	0 - 0.5	5.3	5.3	0.05	0.27
1B-SB-01	115	1137.60	1 - 3	0.89	0.89	84.27	75.00
1B-SB-02	114	15146.86	1 - 3	ND(0.038)	0.019	1121.99	21.32
1B-SB-03	105	23690.04	1 - 3	0.178	0.178	1754.82	312.36
1B-SB-04	111	21024.97	1 - 3	ND(0.044)	0.022	1557.41	34.26
1B-SB-05	113	5291.17	1 - 3	ND(0.035)	0.0175	391.94	6.86
1B-SB-06	112	12426.47	1 - 3	0.5	0.5	920.48	460.24
1B-SB-07	110	11472.49	1 - 3	0.25	0.25	849.81	212.45
1B-SB-08	108	7353.48	1 - 3	ND(0.36)	0.18	544.70	98.05
1B-SB-09	150	1234.48	1 - 3	0.37	0.37	91.44	33.83
1B-SB-10	109	4470.34	1 - 3	ND(0.035)	0.0175	331.14	5.79
1B-SB-11	106	21486.51	1 - 3	0.043	0.043	1591.59	68.44
1B-SB-12	135/139	3755.31	1 - 3	ND(0.044)[ND(0.044)]	0.022	278.17	6.12
1B-SB-13	107	3034.90	1 - 3	0.73	0.73	224.81	164.11
BS000164	104	3401.08	1 - 2	0.43J	0.43	125.97	54.17
BS000164	104	3401.08	2 - 3	0.29J	0.29	125.97	36.53
BS000165	116	2490.27	1 - 2	0.74J	0.74	92.23	68.25

TABLE C-17

PARCEL 18-24-1
 SPATIAL AVERAGE 0- TO 15-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
BS000165	116	2490.27	2 - 3	0.25J[0.24J]	0.245	92.23	22.60
BS000166	151	2317.51	1 - 2	0.15J	0.15	85.83	12.88
BS000166	151	2317.51	2 - 3	0.024J	0.024	85.83	2.06
BS000167	117	2076.08	1 - 2	0.15J	0.15	76.89	11.53
BS000167	117	2076.08	2 - 3	0.3J	0.3	76.89	23.07
RB010981	118	3329.40	1 - 1.5	16.2	16.2	123.32	1997.78
RB010981	118	3329.40	2 - 2.5	8.47J	8.47	123.32	1044.52
RB010982	149	99.56	1 - 1.5	42.6J	42.6	3.68	156.77
RB011001	148	1123.83	1 - 1.5	28	28	41.62	1165.36
RB011001	148	1123.83	2 - 2.5	43	43	41.62	1789.66
RB011021	147	149.40	1 - 1.5	58.4J	58.4	5.54	323.54
RB0011021	147	149.40	2 - 2.5	118J	118	5.54	653.72
RB0011041	146	508.69	1 - 1.5	3.01J	3.01	18.84	56.71
RB0011041	146	508.69	2 - 2.5	3.61J	3.61	18.84	68.01
RB021061	145	693.07	1 - 1.5	3.39J	3.39	25.66	86.99
RB021061	145	693.07	2 - 2.5	1.22J	1.22	25.66	31.31
1B-SB-01	68	3798.58	3 - 6	0.49	0.49	422.06	206.81
1B-SB-02	67	15707.43	3 - 6	ND(0.035)	0.0175	1745.27	30.54
1B-SB-03	58	23690.04	3 - 6	0.036J	0.036	2632.23	94.76
1B-SB-04	64	21024.97	3 - 6	0.044J	0.044	2336.11	102.79
1B-SB-05	66	9147.45	3 - 6	ND(0.035)	0.0175	1016.38	17.79
1B-SB-06	65	12972.08	3 - 6	ND(0.034)	0.017	1441.34	24.50
1B-SB-07	63	14387.06	3 - 6	ND(0.035)	0.0175	1598.56	27.97
1B-SB-08	61	7498.14	3 - 6	1.1	1.1	833.13	916.44
1B-SB-09	86	4934.46	3 - 6	ND(0.045)[ND(0.046)]	0.0228	548.27	12.50
1B-SB-10	62	5070.30	3 - 6	ND(0.034)	0.017	563.37	9.58
1B-SB-11	59	21595.87	3 - 6	0.34	0.34	2399.54	815.84
1B-SB-12	77/81	4135.59	3 - 6	0.11	0.11	459.51	50.55
1B-SB-13	60	3751.76	3 - 6	0.13	0.13	416.86	54.19
1A-SB-05	111	18840.82	6 - 10	0.2	0.2	2791.23	558.25

TABLE C-17

PARCEL 18-24-1
 SPATIAL AVERAGE 0- TO 15-FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1B-SB-01	98	27979.55	6 - 10	ND(0.055)	0.0275	4145.12	113.99
1B-SB-08	97	69209.41	6 - 10	0.04	0.04	10253.25	410.13
1B-SB-11	95	22383.66	6 - 10	ND(0.038)	0.019	3316.10	63.01
1B-SB-12	106/110	5548.53	6 - 10	0.56	0.56	822.00	460.32
1B-SB-13	96	3751.76	6 - 10	0.081	0.081	555.82	45.02
1A-SB-05	34	61634.20	10 - 15	0.087	0.087	11413.74	993.00
1A-SB-07	35	1110.91	10 - 15	ND(0.093)	0.0465	205.72	9.57
1B-SB-12	31	62421.78	10 - 15	ND(0.041)	0.0205	11559.59	236.97
1B-SB-13	26	22546.73	10 - 15	ND(0.051)	0.0255	4175.32	106.47
Totals:	--	754657.52	--	--		82059.45	22618.73
						Volume Weighted Average:	0.28

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.

TABLE C-18

PARCEL I8-24-1
SPATIAL AVERAGE 1- TO X- (1- TO 15) FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
1 1/2 MILE REACH OF HOUSATONIC RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1B-SB-01	115	1137.60	1 - 3	0.89	0.89	84.27	75.00
1B-SB-02	114	15146.86	1 - 3	ND(0.038)	0.019	1121.99	21.32
1B-SB-03	105	23690.04	1 - 3	0.178	0.178	1754.82	312.36
1B-SB-04	111	21024.97	1 - 3	ND(0.044)	0.022	1557.41	34.26
1B-SB-05	113	5291.17	1 - 3	ND(0.035)	0.0175	391.94	6.86
1B-SB-06	112	12426.47	1 - 3	0.5	0.5	920.48	460.24
1B-SB-07	110	11472.49	1 - 3	0.25	0.25	849.81	212.45
1B-SB-08	108	7353.48	1 - 3	ND(0.36)	0.18	544.70	98.05
1B-SB-09	150	1234.48	1 - 3	0.37	0.37	91.44	33.83
1B-SB-10	109	4470.34	1 - 3	ND(0.035)	0.0175	331.14	5.79
1B-SB-11	106	21486.51	1 - 3	0.043	0.043	1591.59	68.44
1B-SB-12	135/139	3755.31	1 - 3	ND(0.044)[ND(0.044)]	0.022	278.17	6.12
1B-SB-13	107	3034.90	1 - 3	0.73	0.73	224.81	164.11
BS000164	104	3401.08	1 - 2	0.43J	0.43	125.97	54.17
BS000164	104	3401.08	2 - 3	0.29J	0.29	125.97	36.53
BS000165	116	2490.27	1 - 2	0.74J	0.74	92.23	68.25
BS000165	116	2490.27	2 - 3	0.25J[0.24J]	0.245	92.23	22.60
BS000166	151	2317.51	1 - 2	0.15J	0.15	85.83	12.88
BS000166	151	2317.51	2 - 3	0.024J	0.024	85.83	2.06
BS000167	117	2076.08	1 - 2	0.15J	0.15	76.89	11.53
BS000167	117	2076.08	2 - 3	0.3J	0.3	76.89	23.07
RB010981	118	3329.40	1 - 1.5	16.2	16.2	123.32	1997.78
RB010981	118	3329.40	2 - 2.5	8.47J	8.47	123.32	1044.52
RB010982	149	99.56	1 - 1.5	42.6J	42.6	3.68	156.77
RB011001	148	1123.83	1 - 1.5	28	28	41.62	1165.36
RB011001	148	1123.83	2 - 2.5	43	43	41.62	1789.66
RB011021	147	149.40	1 - 1.5	58.4J	58.4	5.54	323.54
RB0011021	147	149.40	2 - 2.5	118J	118	5.54	653.72
RB0011041	146	508.69	1 - 1.5	3.01J	3.01	18.84	56.71
RB0011041	146	508.69	2 - 2.5	3.61J	3.61	18.84	68.01
RB021061	145	693.07	1 - 1.5	3.39J	3.39	25.66	86.99
RB021061	145	693.07	2 - 2.5	1.22J	1.22	25.66	31.31
1B-SB-01	68	3798.58	3 - 6	0.49	0.49	422.06	206.81
1B-SB-02	67	15707.43	3 - 6	ND(0.035)	0.0175	1745.27	30.54
1B-SB-03	58	23690.04	3 - 6	0.036J	0.036	2632.23	94.76
1B-SB-04	64	21024.97	3 - 6	0.044J	0.044	2336.11	102.79
1B-SB-05	66	9147.45	3 - 6	ND(0.035)	0.0175	1016.38	17.79

TABLE C-18

PARCEL I8-24-1
 SPATIAL AVERAGE 1- TO X- (1- TO 15) FOOT DEPTH INTERVAL

PRE-DESIGN INVESTIGATION AND PCB SOIL EVALUATION REPORT FOR
 PHASE 1 FLOODPLAIN PROPERTIES ADJACENT TO THE
 1 1/2 MILE REACH OF HOUSATONIC RIVER
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID (s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth Increment (ft.)	PCB Conc. (ppm)	Total PCBs (ppm) for Spatial Avg	Volume (cumulative) (cy)	PCB Conc. Times Total Volume
1B-SB-06	65	12972.08	3 - 6	ND(0.034)	0.017	1441.34	24.50
1B-SB-07	63	14387.06	3 - 6	ND(0.035)	0.0175	1598.56	27.97
1B-SB-08	61	7498.14	3 - 6	1.1	1.1	833.13	916.44
1B-SB-09	86	4934.46	3 - 6	ND(0.045)[ND(0.046)]	0.0228	548.27	12.50
1B-SB-10	62	5070.30	3 - 6	ND(0.034)	0.017	563.37	9.58
1B-SB-11	59	21595.87	3 - 6	0.34	0.34	2399.54	815.84
1B-SB-12	77/81	4135.59	3 - 6	0.11	0.11	459.51	50.55
1B-SB-13	60	3751.76	3 - 6	0.13	0.13	416.86	54.19
1A-SB-05	111	18840.82	6 - 10	0.2	0.2	2791.23	558.25
1B-SB-01	98	27979.55	6 - 10	ND(0.055)	0.0275	4145.12	113.99
1B-SB-08	97	69209.41	6 - 10	0.04	0.04	10253.25	410.13
1B-SB-11	95	22383.66	6 - 10	ND(0.038)	0.019	3316.10	63.01
1B-SB-12	106/110	5548.53	6 - 10	0.56	0.56	822.00	460.32
1B-SB-13	96	3751.76	6 - 10	0.081	0.081	555.82	45.02
1A-SB-05	34	61634.20	10 - 15	0.087	0.087	11413.74	993.00
1A-SB-07	35	1110.91	10 - 15	ND(0.093)	0.0465	205.72	9.57
1B-SB-12	31	62421.78	10 - 15	ND(0.041)	0.0205	11559.59	236.97
1B-SB-13	26	22546.73	10 - 15	ND(0.051)	0.0255	4175.32	106.47
Totals:	--	606943.90	--	--		76588.58	14465.26
						Volume Weighted Average:	0.19

Notes:

1. ND(0.6) - Analyte was not detected. Detection limit shown in parenthesis. Half the detection limit was used in calculations.
2. All calculations and rounding are performed by the computer software. Therefore, certain quantities in the above table are displayed as rounded numbers for clarity.