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

Transmitted Via Overnight Courier

May 19, 2004

Mr. Michael Nalipinski
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 100
Boston, Massachusetts 02114-2023

Re: GE-Pittsfield/Housatonic River Site
Former Oxbow Areas A and C (GECD410)
Supplemental PDI Report and Additional Sampling Proposal

Dear Mr. Nalipinski:

On August 15, 2003, the General Electric Company (GE) submitted to the U.S. Environmental Protection Agency (EPA) a document titled *Pre-Design Investigation Report for the Former Oxbow Areas A and C Removal Action* (PDI Report). That document presented the results of soil investigations performed by GE to satisfy the requirements for pre-design investigations for this Removal Action Area (RAA) and to support future evaluations concerning the need for and scope of remedial actions to address the applicable Performance Standards. In addition to summarizing the completed soil investigations, the PDI Report identified certain data needs (and related sampling proposals) concerning the presence of PCBs and/or other constituents listed in Appendix IX of 40 CFR 264, plus benzidene, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3) in the RAA soils. In a letter dated October 20, 2003, EPA approved the PDI Report and also required that GE submit a proposal for additional sampling within the RAA in the vicinity of the former Elm Street Mobil Station. GE satisfied that requirement in a letter proposal dated November 18, 2003; EPA approved GE's additional sampling proposal in a letter dated December 1, 2003.

In the PDI Report, GE proposed to present the results of the additional soil sampling (as well as additional information discussed below) in a Supplemental Pre-Design Investigation Report (Supplemental PDI Report) to be submitted within four months from EPA approval of the PDI Report (subject to potential delays due to weather conditions and/or property access). On April 2, 2004 EPA agreed to a 30-day extension for submittal of the Supplemental PDI Report, due to delays in obtaining property access to conduct PCB sampling within the former Elm Street Mobil Station. As a result of that extension, the due date for this Supplemental PDI Report was changed to May 20, 2004.

The remainder of this letter addresses the following items related to the Former Oxbow Areas A and C RAA:

- The results of the supplemental pre-design soil investigations;
- A data quality review and validation of the PCB data from the completed pre-design investigations, as well as an update regarding the validation by others of the PCB data collected by others related to the former Elm Street Mobil Station;
- An assessment of the need to expand the boundaries of the RAA, including the need for additional soil data to determine whether the proposed expanded areas of the RAA have been adequately characterized;
- An assessment of the need for additional PCB or Appendix IX+3 soil data to support future Removal Design/Removal Action (RD/RA) evaluations within the RAA (as expanded); and
- A proposal and schedule for any additional data collection activities, as well as a schedule for submittal of a Conceptual RD/RA Work Plan.

I. Supplemental Pre-Design Soil Investigations

Supplemental pre-design investigations for the Former Oxbow Areas A and C RAA involved the collection and analysis of 115 soil samples from 28 locations. Figure 1 identifies the sampling locations, and Table 1 identifies, for each sample, the sample location, the analyses performed, and the rationale for the sample. Soil samples were collected on behalf of GE by Blasland, Bouck, & Lee, Inc. (BBL) between December 18, 2003 and May 6, 2004, while analytical services were provided by CT&E Environmental Services, Inc. All field and analytical activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Plan* (FSP/QAPP). Soil boring logs for the supplemental pre-design investigations are presented in Attachment A to this document. PCB results were reported on a dry-weight basis, with a detection limit of approximately 0.05 parts per million (ppm) for all Aroclors. Soil samples collected for other Appendix IX+3 constituents (excluding pesticides and herbicides), were analyzed using methods and reporting limits consistent with those presented in the FSP/QAPP. The analytical results for the supplemental samples for PCBs and Appendix IX+3 constituents are provided in Tables 2 and 3, respectively. Table 3 presents Appendix IX+3 results for only those constituents that were detected in one or more samples. A complete listing of the (non-PCB) Appendix IX+3 laboratory results is included in Attachment B.

With one exception, all of the supplemental sampling activities were performed consistent with the proposals identified by GE and approved by EPA. The one exception was for sample RAA11-Q11A, a location requested by EPA in its October 20, 2003 conditional approval letter. The purpose of this sampling was to provide additional PCB data to characterize soils in the vicinity of an existing subsurface utility. However, for this specific location within Parcel I8-23-6, the property owner requested that there be no drilling and that the sample not be collected because of the prevalence of underground utilities. GE notified EPA of this request. In light of this outcome, existing PCB data from several other borings within this area will be used to characterize the utility band as part of its future RD/RA evaluations.

II. Data Quality Assessment

With the exception of the sampling recently conducted by GE at and in the right-of-way south of the former Elm Street Mobil Station and two soil borings (RAA11-X5S and X8S) located at the south part of

Parcel I8-23-6, the supplemental pre-design soil data have undergone data quality review and validation in accordance with Section 7.5 of the FSP/QAPP. The results of this assessment are summarized in a data validation summary report presented in Attachment C. As indicated in that report, 99.8% of the supplemental pre-design data are considered to be usable, which is greater than the minimum required usability of 90% specified in the FSP/QAPP. Further, there is no re-sampling needed as a result of this data validation.

As mentioned above, because of a delay in gaining access to the former Elm Street Mobil Station property, validation of the recent PCB samples collected by GE on and in the vicinity of that property has not yet been performed. Therefore, GE will provide the validated results for these PCB samples in the Conceptual RD/RA Work Plan. It is not expected that these data will be deemed not usable, since the results of validation of other pre-design PCB data from this RAA and from other RAAs have indicated a very low incidence of rejected PCB results. However, if any of the pre-design PCB data from the former Elm Street Mobil Station are rejected, the need for any additional PCB sampling will be evaluated and, if necessary, such additional sampling will be proposed in the Conceptual RD/RA Work Plan.

GE has confirmed that the PCB data (collected by others) related to the former Elm Street Mobil Station Site have not been validated. Given that: 1) the PCB soil samples from the former Elm Street Mobil station were recently collected and analyzed using the current USEPA Method 8082, and 2) the data were provided by ExxonMobil to the Massachusetts Department of Environmental Protection (MDEP), these data are currently considered acceptable for RD/RA evaluations

In addition, since submittal of the PDI Report in August 2003, GE has completed its data quality review and validation of the PCB results from the initial pre-design investigations. The validation summary report for those data is provided as Attachment D. As indicated in that report, 99.6% of the pre-design data are considered to be usable, which is greater than the minimum required usability of 90% specified in the FSP/QAPP. Further, there is no re-sampling needed as a result of this data validation. Attachment E presents the validated PCB data for the initial pre-design investigation.

III. Extension of RAA Boundary and Related Data Needs

The PDI Report stated that, based on the results of this supplemental sampling, and the other available PCB soil data from sampling locations at or near the boundary of the RAA (as well as from certain properties adjacent to the RAA), GE would evaluate the need to propose an extension of the existing RAA boundaries in the vicinity of Parcels I8-23-4, I8-23-5, I8-23-11, and I9-5-2. That report indicated that the Supplemental PDI Report would include GE's specific proposal related to this matter.

For each of the parcels identified above, GE has reviewed the available PCB data to determine whether the RAA boundary should be expanded, and whether there are additional data needs as a result of any such expansion. A summary is provided below.

- **Parcels I8-23-4 and I8-23-5** – The former Elm Street Mobil station is located on Parcel I8-23-5. Several soil and groundwater response actions on that site (designated as a separate disposal site under the Massachusetts Contingency Plan (MCP)) have been conducted by ExxonMobil since 1991 pursuant to the MCP under an Administrative Consent Order (ACO) with MDEP to address petroleum-related compounds related to the former use of the property. Additional data collected by ExxonMobil prior to preparation of the PDI Report, however, showed that PCBs are present on that parcel and the adjacent Parcel I8-23-4 to the west. As proposed in the PDI Report and approved by EPA, GE has performed PCB sampling to supplement the previous investigations performed and to provide appropriate grid-based characterization of PCBs at Parcels I8-23-5 and I8-23-4. As provided in the PDI Report, GE has evaluated all of the PCB data from these parcels to determine

the extent to which the boundaries of the RAA should be extended onto one or both of these parcels. That review indicated that several sample results within or adjacent to these parcels exceed 2 ppm PCBs. In addition, certain of the existing PCB results on Parcel I8-23-5 (SB-415 and SB-421) led GE to propose, as part of the supplemental pre-design investigation, the collection of soil borings RAA11-W1SE, RAA11-X2, RAA11-X3, and RAA11-X4 south of Parcel I8-23-5 within the Elm Street right-of-way to further assess the presence of PCBs at those locations. The results of the supplemental samples indicate a maximum PCB concentration of 6.8 ppm at sample RAA11-X3 (0- to 1-foot depth increment), with a concentration of 2.5 ppm at sample RAA11-X2.

Therefore, as shown on Figure 1, GE proposes to expand the RAA boundary, for purposes of PCBs only, to include Parcels I8-23-4 and I8-23-5, and that portion of the Elm Street right-of-way extending to the paved portion of the street. GE will address these areas pursuant to the Consent Decree and under the appropriate Consent Decree Performance Standards. Any additional sampling or other response actions to be undertaken by GE at these parcels will be limited to PCBs, based on the understanding that other constituents on Parcels I8-23-4 and I8-23-5 are being addressed by ExxonMobil under its ACO and pursuant to the MCP. No additional PCB-related data needs have been identified at this time on parcels I8-23-4 or I8-23-5.

However, as a result of the PCB detections at RAA11-X3 and RAA11-X2 at levels exceeding 2 ppm, GE proposes to collect soil samples from two additional locations south of the paved portion of Elm Street (within its southern right-of-way). Figure 2 identifies the proposed sample locations. Part V of this letter describes the details of the proposed sampling.

- **Parcel I8-23-11** – The supplemental PCB soil sampling performed within this parcel (at location RAA11-S13S, located approximately 35 feet south of the RAA boundary) did not detect PCBs at levels exceeding 2 ppm. Therefore, GE does not propose to expand the RAA boundary to include Parcel I8-23-11.

- **Parcel I9-5-2** – The available data for this parcel indicates that PCBs are present at a concentration greater than 2 ppm at two locations on this parcel. The PDI Report concluded that this parcel was adequately characterized for PCBs, as the data required for each grid node can be satisfied by existing samples under the applicable criteria. The PDI Report also concluded that delineation to the northeast, on Parcel I9-5-13, is not required, as that property was already investigated and a Class B-1 Response Action Outcome (RAO) Statement was previously submitted to MDEP (documenting that a level of No Significant Risk exists on this property). Evaluation of the results of the data from Parcel I9-5-2 showed that those data would not affect that outcome for Parcel I9-5-13. As a result of the data on Parcel I9-5-2, however, the PDI Report included a proposal to perform sampling on the adjacent Parcel I9-5-3 to determine whether PCBs extend beyond Parcel I9-5-2. The PDI Report also stated that, based on the results of the sampling on Parcel I9-5-3, GE would evaluate the need for additional sampling for PCBs and other constituents on Parcels I9-5-2 and I9-5-3. The results of recent sampling for Parcel I9-5-3 showed that PCB concentrations were below 2 ppm in all samples at all depth increments. Thus, no additional sampling on I9-5-3 or beyond that parcel is necessary and GE proposes to expand the current RAA boundary in this area to include Parcel I9-5-2 but not any other parcels (Figure 1). While it was previously determined that the existing PCB data for Parcel I9-5-2 are sufficient for characterization and future RD/RA purposes, GE has determined that there is not currently a sufficient amount of non-PCB Appendix IX+3 data. Therefore, GE proposes to collect Appendix IX+3 samples for surface and subsurface soils, as discussed in Sections IV and V of this letter.

In its approval of the PDI Report, EPA also required that GE collect additional soil samples to further assess the presence of PCBs within the southern area of the RAA in the vicinity of sample locations RAA11-X5 and RAA11-X8 at Parcel I8-23-6. In its November 18, 2003 letter to EPA, GE proposed to collect samples from two borings within the Elm Street right-of-way adjacent to Parcel I8-23-6. Due to the presence of underground utilities in the Elm Street right-of-way in this area, these two subsurface borings (RAA11-X5S and RAA11-X8S) were advanced at Parcel I8-23-6, adjacent to the right-of-way (Figure 2). The results for these supplemental PCB samples do not indicate PCBs at levels exceeding 2 ppm. Therefore, no changes to the RAA boundary in this area are necessary.

Note that certain other residential parcels adjacent to the RAA were also discussed in the PDI Report, but were not considered for inclusion in an expanded RAA because they were previously subject to an Administrative Consent Order executed by GE and the Massachusetts Department of Environmental Protection under the Massachusetts Contingency Plan. For these parcels, GE will separately address the need for any additional response actions with MDEP.

IV. Preliminary RD/RA Evaluations and Related Data Needs

Similar to the approach that has been taken at several other RAAs within the GE-Pittsfield/Housatonic River Site, GE has performed a preliminary assessment -- as part of its pre-design activities and in advance of any detailed RD/RA evaluations -- of the available site information to identify areas where remediation potentially may be needed to achieve the applicable Performance Standards. By preliminarily identifying such areas, GE may be able to evaluate whether additional data are likely to be necessary to support future RD/RA activities.

For PCBs, the results of the preliminary evaluations indicate that some remediation will be necessary to achieve the applicable Performance Standards. However, the available data set appears sufficient to identify the extent of such remediation such that no specific PCB-related data needs have been identified at this time. This finding will be confirmed once a detailed site map is available and the detailed RD/RA evaluations are performed.

For Appendix IX+3 constituents other than PCBs, the preliminary assessment was generally based on the procedures outlined in Technical Attachment F of the *Statement of Work for Remedial Actions Outside of the River* (SOW). This preliminary assessment did not incorporate the results of any potential remediation actions that may be necessary to achieve the applicable PCB Performance Standards. Any such remediation actions to address PCBs in soil will be incorporated into Appendix IX+3-related RD/RA evaluations to be presented in the Conceptual RD/RA Work Plan.

The initial step in the assessment involved a comparison of the maximum concentration of detected Appendix IX+3 constituents to its corresponding EPA Region 9 Preliminary Remediation Goal (PRG) (as set forth in Exhibit F-1 to Attachment F to the SOW) or other suitable surrogate PRG. This RAA consists of commercial and recreational areas as defined in the SOW. The maximum detected concentrations for commercial areas were compared with industrial PRGs, while maximum detected concentrations for recreational areas were compared with residential PRGs (as directed in Attachment F to the SOW). Note that a different method of PRG screening is followed for assessment of polychlorinated dibenzo-p-dioxins (PCDDs or dioxins) and polychlorinated dibenzofurans (PCDFs or furans). The process used for assessing dioxins/furans is discussed further below.

For those (non-PCB) Appendix IX+3 constituents other than dioxins/furans that were retained for further evaluation, the next step of the evaluation involved the calculation of arithmetic average concentrations for those constituents for each of the averaging areas and depth increments within the RAA. Those arithmetic average concentrations were then compared to the applicable Method 1 soil standards specified

in the MCP. If the average concentrations exceed their corresponding MCP Method 1 soil standards, the SOW allows for either the performance of remediation actions to achieve the MCP soil standards or the performance of an area-specific risk assessment.

The preliminary evaluations outlined above for the soils at this RAA indicated that the average concentrations of several Appendix IX+3 constituents exceed their corresponding MCP Method 1 soil standards in various averaging areas at this RAA. In addition, there are certain such constituents for which no Method 1 standard exists. In these circumstances, GE plans to have its risk assessment consultants conduct area-specific risk assessments for such areas in accordance with the procedures specified in the SOW. The performance of such detailed area-specific risk assessments have not been conducted at this time, and would first require (at a minimum) the development of detailed site mapping and an understanding of potential remediation actions that may be needed for PCBs. However, as a means to gauge whether such data could potentially influence the RD/RA evaluations and result in a need for remediation, GE has utilized preliminary risk-based concentrations (PRBCs), focused on seven carcinogenic polycylic aromatic hydrocarbons (PAHs) that typically require detailed evaluation and, in some cases, remediation actions within various other RAAs. These PAHs are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

For these PAHs, the PRBCs have been back-calculated based on the same exposure and toxicity assumptions that will be used in the area-specific risk assessments. The PRBCs have been developed for the seven carcinogenic PAHs as a group and are expressed in terms of total toxicity equivalents of benzo(a)pyrene [B(a)P equivalents], since, in an area-specific risk assessment, these PAHs are evaluated through the use of Cancer Slope Factors that are adjusted by application of Relative Potency Factors (RPFs) based on their assumed potency relative to benzo(a)pyrene. The PRBCs relevant to the industrial/commercial areas at this RAA are 13 ppm B(a)P equivalents for surface soil (0- to 1-foot depth), based on the commercial groundskeeper scenario, and 41 ppm B(a)P equivalents for subsurface soil (1- to 6-foot depth), based on the utility worker scenario. In addition, for the recreational areas, a PRBC of 4 ppm B(a)P equivalents, based on the child recreator scenario, was used for the 0- to 1-foot and 1- to 3-foot depth increments. To apply these PRBCs, the average concentrations of the seven carcinogenic PAHs for a given area and depth increment are adjusted through the use of the same RPFs described above to derive a total B(a)P equivalent concentration for that area and depth increment, and the resulting total B(a)P equivalent concentration is compared to the applicable PRBC. If that concentration is well below the PRBC (and assuming that there are no other carcinogenic constituents with significantly elevated concentrations), then it can be concluded that the area-specific risk assessment will most likely find no exceedance of the cancer-risk Performance Standard specified in the SOW (an excess lifetime cancer risk of 1×10^{-5}), and that thus no remediation (or any additional sampling) is needed. However, if the average total B(a)P equivalent concentration is close to or above the PRBC, then it can be assumed that the area-specific risk assessment may find an exceedance of that Performance Standard under existing conditions. In such cases, additional sampling may be warranted to support future RD/RA activities.

For the majority of averaging areas at this RAA, the results of the preliminary assessment indicate that the total B(a)P equivalent concentrations for both surface soils and subsurface soils are well below the PRBCs for the commercial and recreational areas of the RAA. As a result, where an area-specific risk assessment is needed, it is most likely to find no exceedance of the cancer-risk Performance Standard due to these PAHs. However, there are two locations identified at the recreational portion of Parcel I8-32-6 where removal is likely to be needed because of elevated PAHs in the top 1-foot of soil. These locations are RAA11-C17 (0- to 1-foot depth interval) and RAA11-G15 (0- to 1-foot depth interval). Additional sampling and analysis for semi-volatile organic compounds (SVOCs) will be needed to further delineate the elevated PAHs at these locations, as further described in Section V below.

The following procedure was used for assessing dioxins/furans. For each dioxin/furan sample, a total toxicity equivalent quotient (TEQ) concentration was calculated using World Health Organization (WHO) toxicity equivalency factors (TEFs), as specified in the SOW. In making these calculations, the concentrations of the individual dioxin/furan compounds that were not detected in a given sample were represented as one-half of the analytical detection limit for such compounds. Then, for each averaging area and relevant depth increment, the maximum TEQ concentration was compared to the applicable PRG identified in the SOW for that type of area and depth or a comparison criterion for depths below 3 feet at recreational properties as identified in EPA's conditional approval letter for the Conceptual RD/RA Report for the Newell Street Area I, dated May 24, 2002. For the commercial properties at this RAA, those PRGs are 5 parts per billion (ppb) for the top foot of soil and the 0- to 3-foot depth increment. The PRG for the 1- to 15-foot depth increment at the commercial areas is 20 ppb. For the recreational properties at this RAA, the PRGs for maximum TEQs are 1 ppb for the top foot of soil and the 0- to 3-foot depth increment. The criterion for the 3- to 15-foot depth increment at recreational areas is 20 ppb. Performance of these preliminary evaluations determined that none of the maximum TEQ concentrations exceeded the applicable PRGs. Therefore, there was no need to calculate and compare 95% Upper Confidence Limits (95% UCLs) for TEQ concentrations to the applicable PRGs, and GE does not anticipate a need for remediation based on TEQ concentrations.

V. Proposed Data Needs

As stated above, GE's assessment of the pre-design PCB data, including that from the supplemental sampling, indicates that these data are sufficient for PCB characterization to support future RD/RA evaluations and to identify areas for removal actions at this RAA, even when considering the proposed expansion of the RAA as discussed in Part III of this letter. In terms of the Appendix IX+3 data, additional supplemental sampling and analysis is needed to provide adequate surface and subsurface coverage for such constituents at Parcel I9-5-2. Also, based on performance of preliminary Appendix IX+3 evaluations for the existing pre-design data, GE has identified two surface soil sample locations within Parcel I8-23-6 where additional remediation, beyond that which is necessary to address PCBs, will likely be required to achieve the applicable Performance Standards specified in the SOW for certain non-PCB constituents. As such, supplemental sampling will be needed to assist with the detailed RD/RA evaluations for these areas. Additional information is presented below.

- **Additional Appendix IX+3 Sampling at Parcel I9-5-2** –As discussed in Section III, GE proposes to expand the RAA boundary to include this parcel because PCBs are present at a concentration greater than 2 ppm. While it was previously determined that the existing PCB data are sufficient for PCB characterization purposes within Parcel I9-5-2, there is not a sufficient amount of non-PCB Appendix IX+3 data to evaluate this parcel. Existing data for Parcel I9-5-2 includes non-PCB Appendix IX+3 samples (excluding dioxins/furans and pesticides/herbicides) for the 3- to 6-foot and 10- to 15-foot depth intervals. Therefore, GE proposes to collect soil samples and analyze for full (non-PCB) Appendix IX+3 constituents (excluding pesticides/herbicides) at the 0- to 1-foot depth interval at the RAA11-H26A and RAA11-G28 locations (Figure 3), and the 1- to 3-foot depth interval at RAA11-H27 (Figure 4). Further, GE proposes to collect soil samples and analyze for dioxins/furans at the 3- to 6-foot depth interval at RAA11-H27 (Figure 5) and the 10- to 15-foot depth interval at RAA11-G27A (Figure 6).

- **Additional PAH Sampling at Parcel I8-23-6 (Recreational Portion) in the Vicinity of RAA11-C17 (0 to 1 foot)** – Based on the preliminary evaluations of the PAH data for the 0- to 1-foot depth increment in the vicinity of RAA11-C17 (0 to 1 foot), GE has determined that existing soil conditions will likely not achieve the applicable Performance Standards for Appendix IX+3 constituents, and that remediation actions may be necessary. To support further evaluations and

assist in identifying the scope of remediation actions (if necessary), GE proposes to conduct additional sampling in the vicinity of RAA11-C17. Specifically, GE proposes to collect samples at two new locations RAA11-C17E and RAA11-C17SW, as shown on Figure 3. At both of these locations, samples will be collected from the 0- to 1-foot depth increment and submitted for analysis of SVOCs.

- **Additional PAH Sampling at Parcel I8-23-6 (Recreational Portion) in the Vicinity of RAA11-G15 (0 to 1 foot)** – As part of its preliminary evaluations of the PAH data for the 0- to 1-foot depth increment at this area, GE has determined that existing soil conditions will likely not achieve the applicable Performance Standards for Appendix IX+3 constituents, and that remediation actions may be needed. For use in further evaluations and identifying the scope of remediation actions (if necessary), GE proposes to collect additional samples in the vicinity of RAA11-G15 – specifically at four new locations RAA11-G15N, RAA11-G15S, RAA11-G15E, and RAA11-G15W, as shown on Figure 3. These samples will be collected from the 0- to 1-foot depth increment at each of these locations and submitted for analysis of SVOCs .

- **Additional PCB Sampling at Elm Street Right-of-Way (Southern)** – To determine existing soil conditions at the southern right-of-way across Elm Street from RAA11-X3 (0- to 1-foot depth increment) as described in Section III, GE proposes to collect two additional soil samples at two locations SROW-1 and SROW-2, as shown on Figure 2. These samples will be collected from the 0- to 1-foot depth increment at each of these locations and submitted for analysis of PCBs.

VI. Proposed Schedule

GE proposes to perform the supplemental sampling proposed in this letter within 1 month of EPA's approval of this Supplemental PDI Report. This timeframe is subject to GE obtaining access agreements for the involved properties and any weather constraints. It is anticipated that the analytical results will be received within approximately one month from the last date of sample collection. Based on these results, if it is determined that no additional sampling is needed, GE will report the results of the supplemental sampling in the monthly CD status report and in a data summary letter submitted four months following EPA's approval of this Supplemental PDI Report. GE will submit the Conceptual RD/RA Work Plan for the Former Oxbow Areas A and C RAA within two months following the submission of the data summary letter. If the results of the supplemental sampling proposed herein indicate that any additional soil sampling is needed, GE will submit a proposal for such sampling and a revised schedule for submittal of the Conceptual RD/RA Work Plan.

In accordance with prior agreements between EPA and GE, GE is required to provide notice to EPA and MDEP as to whether the owners of the non-GE-owned non-residential properties within this RA would agree to execute and record EREs on their properties if the conditions for EREs (i.e., not achieving residential standards) were met. In the PDI Report, GE proposed and EPA approved that such notice be due one month following the later of: (a) the date of submission of the Supplemental PDI Report, or (b) the date of submission of any subsequent additional supplemental pre-design investigation report that may be proposed in the Supplemental PDI Report. In a telephone discussion between EPA and GE on April 2, 2004, as confirmed in GE's letter to EPA of April 6, 2004, EPA agreed to defer the time for ERE notifications with respect to property owners at this area other than the owner of Parcels I8-23-6 and I9-5-1, who has declined to execute EREs for his properties. EPA and GE agreed to address this matter further prior to submission of the Conceptual RD/RA Work Plan, at which time a specific date could be determined by which the ERE notification relating to other property owners at this area will be submitted. GE will address this matter with EPA prior to submission of the Conceptual RD/RA Work Plan.

Please call Dick Gates or me if you have any questions or comments regarding this letter.

Sincerely,

Andrew T. Silfer /DAJ

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

Attachments
V:\GE_Pittsfield_CD_Former_Oxbow_Areas_A_and_C\Reports and Presentations\Supplemental Rpt\30242196CvrLtr.doc

cc: Tim Conway, EPA
Rose Howell, EPA (compact disk)
Dean Tagliaferro, EPA
Holly Inglis, EPA
K.C. Mitkevicius, USACE (compact disk)
Susan Steenstrup, MDEP (2 copies)
Anna Symington, MDEP*
Robert Bell, MDEP*
Thomas Angus, MDEP*
Dawn Jamros, Weston (hard copy/compact disk, additional disk with data tables, extra copy of oversized figures)
Nancy E. Harper, MA AG*
Dale Young, MA EOEA*
Mayor James Ruberto, City of Pittsfield
Pittsfield Department of Health
Michael Carroll, GE*
Rod McLaren, GE*
Richard Gates, GE
James Nuss, BBL
James Bieke, Shea & Gardner
Property Owner – Parcel I8-23-6/ I9-5-1/I9-5-2
Property Owner – Parcel I8-23-4
Property Owner – Parcel I8-23-9
Property Owner – Parcel I8-23-10
Property Owner – Parcel I8-23-11
David J. Baker, Exxon Mobil Corporation
James P. Spielberg, McCusker, Anselmi, Rosen, Carvelli & Walsh, P.A.
Public Information Repositories
GE Internal Repository

**cover letter only*

Tables

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

TABLE 1
SUMMARY OF SUPPLEMENTAL SAMPLING LOCATIONS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Parcel ID	Nearest Grid Coordinate	Sample ID	Sample Depth (ft)	Analysis					Notes
				PCBs	VOCs	SVOCs	Inorganics	PCDD/PCDF	
I8-23-4	S1	RAA11-S1	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
			1-3	X	--	--	--	--	
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	T1	RAA11-T1	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	U99	RAA11-U99	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	U1	RAA11-U1	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
			1-3	X	--	--	--	--	
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	V99	RAA11-V99	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	V1	RAA11-V1	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	W1	RAA11-W1	1-3	X	--	--	--	--	PCB Characterization for Adjacent Property
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
I8-23-5	V2	RAA11-V2	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	V3	RAA11-V3	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	V4	RAA11-V4	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	W3	RAA11-W3	3-6	X	--	--	--	--	PCB Characterization for Adjacent Property
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
I8-23-6	E15	RAA11-E15	10-15	X	X	X	X	X	Drill through concrete obstruction at 8' bgs.
	I13	RAA11-I13N	6-10	X	--	--	--	--	RAA11-I13N proposed approximately 40' north of grid coordinate I13 (to the edge of loam pile)
			10-15	X	X	X	X	X	
	S15	RAA11-S15S	0-1	X	--	--	--	--	RAA11-S15S proposed approximately 50' south of grid coordinate S15 in parcel I8-23-6
			1-3	X	--	--	--	--	
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
I8-23-10	V11 and V12	RAA11-V11.5	0-1	X	X	X	X	X	Boring must be drilled and samples collected within parcel I8-23-10
			1-3	X	X	X	X	X	
			3-6	X	X	X	X	X	
			6-10	X	--	--	--	--	
			10-15	X	X	X	X	X	
I8-23-11	S13	RAA11-S13S	0-1	X	--	--	--	--	Delineation of PCBs South of RAA11-S13
			1-3	X	--	--	--	--	
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
I9-5-3	G29	RAA11-G29	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
			1-3	X	--	--	--	--	
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	H28	RAA11-H28	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
	I27	RAA11-I27	0-1	X	--	--	--	--	PCB Characterization for Adjacent Property
			1-3	X	--	--	--	--	
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	

TABLE 1
SUMMARY OF SUPPLEMENTAL SAMPLING LOCATIONS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Parcel ID	Nearest Grid Coordinate	Sample ID	Sample Depth (ft)	Analysis					Notes
				PCBs	VOCs	SVOCs	Inorganics	PCDD/PCDF	
Elm Street Right-of-Way	W1	RAA11-W1SE	0-1	X	--	--	--	--	
			1-3	X	--	--	--	--	Analysis of samples from deeper depth increments will be conducted based on results of the upper depth increments
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	X2	RAA11-X2	0-1	X	--	--	--	--	
			1-3	X	--	--	--	--	Analysis of samples from deeper depth increments will be conducted based on results of the upper depth increments
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	X3	RAA11-X3	0-1	X	--	--	--	--	
			1-3	X	--	--	--	--	Analysis of samples from deeper depth increments will be conducted based on results of the upper depth increments
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	X4	RAA11-X4	0-1	X	--	--	--	--	
			1-3	X	--	--	--	--	Analysis of samples from deeper depth increments will be conducted based on results of the upper depth increments
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	X5S	RAA11-X5S	0-1	X	--	--	--	--	
			1-3	X	--	--	--	--	Analysis of samples from deeper depth increments will be conducted based on results of the upper depth increments
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
	X8S	RAA11-X8S	0-1	X	--	--	--	--	
			1-3	X	--	--	--	--	Analysis of samples from deeper depth increments will be conducted based on results of the upper depth increments
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	
Mystic Street Right-of-Way	I26	RAA11-I26	0-1	X	--	--	--	--	PCB Grid Characterization
	M21	RAA11-M21A	1-3	X	--	--	--	--	RAA11-M21A proposed approximately 30' south of grid coordinate M21 within utility band
			3-6	X	--	--	--	--	
			6-10	X	--	--	--	--	
	I25	RAA11-I25A	1-3	X	--	--	--	--	
			3-6	X	--	--	--	--	RAA11-I25A proposed approximately 25' south of grid coordinate I25 within utility band
			6-10	X	--	--	--	--	
			10-15	X	--	--	--	--	

Notes:
1. X = Identifies location and depth for which a soil sample was collected and analyses were performed as part of the supplemental sampling.

TABLE 2
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-E15	10-15	1/22/2004	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.18	0.036 J	0.216
RAA11-G29	0-1	2/6/2004	R	R	R	R	R	0.062 J	0.039 J	0.101 J
	1-3	2/6/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	2/6/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	6-10	2/6/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	2/6/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA11-H28	0-1	2/6/2004	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.14	0.15	0.29
RAA11-I13N	6-10	12/23/2003	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	3.3	4.7	8.0
	10-15	12/23/2003	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	2.0	2.5	4.5
RAA11-I25A	1-3	1/22/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11	0.068	0.178
	3-6	1/22/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	6-10	1/22/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	1/22/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-I26	0-1	12/30/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.045	0.044	0.089
RAA11-I27	0-1	2/6/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.13	0.11	0.24
	1-3	2/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	2/6/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.13	0.18	0.31
	6-10	2/6/2004	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]
	10-15	2/6/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-M21A	1-3	12/30/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.45	0.50	0.95
	3-6	12/30/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.11	0.12	0.23
	6-10	12/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.018 J	ND(0.038)	0.018 J
RAA11-S1	0-1	12/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.058	0.058
	1-3	12/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.12	0.18	0.30
	3-6	12/22/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.038 J	0.032 J	0.070 J
	6-10	12/22/2003	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]
	10-15	12/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA11-S13S	0-1	12/18/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.030 J	0.035 J	0.065 J
	1-3	12/18/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.36	0.43	0.79
	3-6	12/18/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.25	0.25	0.50
	6-10	12/18/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.043	0.062	0.105
	10-15	12/18/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.62	0.62
RAA11-S15S	0-1	12/30/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.44	0.32	0.76
	1-3	12/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.27	0.37	0.64
	3-6	12/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.090	0.078	0.168
	6-10	12/30/2003	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.5	2.1	3.6
	10-15	12/30/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.26	0.17	0.43
RAA11-T1	0-1	12/18/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.033 J	0.028 J	0.061 J
RAA11-U1	0-1	12/22/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	1-3	12/22/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	12/22/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-10	12/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	12/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-U99	0-1	12/18/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.035 J	0.035 J
RAA11-V1	0-1	12/18/2003	ND(0.038) [ND(0.043)]	ND(0.038) [ND(0.043)]	ND(0.038) [ND(0.043)]	ND(0.038) [ND(0.043)]	ND(0.038) [ND(0.043)]	ND(0.038) [ND(0.043)]	0.54 J [0.084 J]	0.54 J [0.084 J]
RAA11-V2 [5]	0-1	5/5/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.064	0.040	0.104
RAA11-V3 [5]	0-1	5/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.015 J	0.015 J
RAA11-V4 [5]	0-1	5/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA11-V11.5 [5]	0-1	3/15/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.050	0.050
	1-3	3/15/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	3-6	3/15/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.12	0.051	0.171
	6-10	3/15/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.52	0.32	0.84
	10-15	3/15/2004	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	0.41 [0.47]	0.41 [0.47]
RAA11-V99	0-1	12/18/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.24	ND(0.040)	0.24

TABLE 2
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-W1	1-3	12/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.020 J	ND(0.037)	0.020 J
	3-6	12/22/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	6-10	12/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	12/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-W1SE [5]	0-1	5/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.22	0.26	0.48
	1-3	5/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.072	0.12	0.192
	3-6	5/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	5/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	5/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-W3 [5]	3-6	5/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	5/5/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	5/5/2004	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]
RAA11-X2 [5]	0-1	5/5/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.2	1.3	2.5
	1-3	5/5/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.030 J	0.030 J
	3-6	5/5/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	6-10	5/5/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	5/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-X3 [5]	0-1	5/5/2004	ND(0.41)	ND(0.41)	ND(0.41)	ND(0.41)	ND(0.41)	2.6	4.2	6.8
	1-3	5/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.22	0.22
	3-6	5/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	6-10	5/5/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	5/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-X4 [5]	0-1	5/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	1.6	1.6
	1-3	5/5/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.058	0.048	0.106
	3-6	5/5/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	6-10	5/5/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	5/5/2004	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]
RAA11-X5S [5]	0-1	5/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.040	0.040
	1-3	5/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.021 J	0.021 J
	3-6	5/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.020 J	0.020 J
	6-10	5/6/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	5/6/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-X8S [5]	0-1	5/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.024 J	0.024 J
	1-3	5/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	5/6/2004	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-10	5/6/2004	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	5/6/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)

Notes:
1. Samples were collected by Blasland, Bouck & Lee, Inc., and 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.
3. Field duplicate sample results are presented in brackets.
4. 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).
5. Sample results for this location have not been validated and are considered preliminary and subject to verification.

Data Qualifiers:
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 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	RAA11-E15	RAA11-E15	RAA11-I13N	RAA11-I13N	RAA11-V11.5	RAA11-V11.5	RAA11-V11.5
Sample Depth(Feet):	10-12	10-15	10-12	10-15	0-1	1-3	3-6
Parameter Date Collected:	01/22/04	01/22/04	12/23/03	12/23/03	03/15/04	03/15/04	03/15/04
Volatile Organics							
Acetone	0.033	NA	ND(0.023)	NA	ND(0.022)	ND(0.023)	NA
Semivolatile Organics							
2-Methylnaphthalene	NA	ND(0.46)	NA	0.14 J	ND(0.37)	ND(0.38)	ND(0.37)
Acenaphthene	NA	ND(0.46)	NA	ND(0.40)	0.37 J	ND(0.38)	0.21 J
Acenaphthylene	NA	0.28 J	NA	0.13 J	0.11 J	ND(0.38)	0.34 J
Anthracene	NA	0.12 J	NA	0.22 J	ND(0.37)	ND(0.38)	0.43
Benzo(a)anthracene	NA	0.32 J	NA	0.41	0.14 J	ND(0.38)	0.52
Benzo(a)pyrene	NA	0.40 J	NA	0.22 J	0.11 J	ND(0.38)	0.20 J
Benzo(b)fluoranthene	NA	0.24 J	NA	0.20 J	0.099 J	ND(0.38)	0.33 J
Benzo(g,h,i)perylene	NA	0.22 J	NA	0.14 J	0.12 J	ND(0.38)	0.12 J
Benzo(k)fluoranthene	NA	0.29 J	NA	0.22 J	0.10 J	ND(0.38)	0.28 J
Chrysene	NA	0.46	NA	0.46	0.18 J	ND(0.38)	0.74
Dibenzo(a,h)anthracene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)	ND(0.37)
Dibenzofuran	NA	ND(0.46)	NA	0.080 J	ND(0.37)	ND(0.38)	0.10 J
Fluoranthene	NA	0.40 J	NA	0.97	0.22 J	ND(0.38)	1.7
Fluorene	NA	ND(0.46)	NA	0.16 J	ND(0.37)	ND(0.38)	0.21 J
Indeno(1,2,3-cd)pyrene	NA	0.15 J	NA	0.11 J	0.082 J	ND(0.38)	0.11 J
Naphthalene	NA	ND(0.46)	NA	0.25 J	ND(0.37)	ND(0.38)	ND(0.37)
Phenanthrene	NA	0.12 J	NA	0.87	ND(0.37)	ND(0.38)	0.44
Phenol	NA	ND(0.46)	NA	0.098 J	ND(0.37)	ND(0.38)	ND(0.37)
Pyrene	NA	0.72	NA	0.89	0.26 J	ND(0.38)	1.5
Furans							
2,3,7,8-TCDF	NA	0.0000068 Y	NA	0.000022 Y	0.0000019 Y	0.00000061 Y	0.0000012 Y
TCDFs (total)	NA	0.000019 I	NA	0.0016 I	0.000036 I	0.0000032	0.0000075 I
1,2,3,7,8-PeCDF	NA	0.0000031	NA	0.000021	0.0000035	0.0000016	0.0000025
2,3,4,7,8-PeCDF	NA	ND(0.00000052)	NA	0.000016	0.0000064	0.0000019	0.0000054
PeCDFs (total)	NA	0.000013 I	NA	0.0017 I	0.000050 I	0.0000052	0.000022 I
1,2,3,4,7,8-HxCDF	NA	ND(0.0000043) X	NA	0.000010	0.0000017	0.0000016	0.0000031
1,2,3,6,7,8-HxCDF	NA	0.0000034	NA	0.00011	0.0000021	0.0000013	0.0000031
1,2,3,7,8,9-HxCDF	NA	ND(0.0000027) X	NA	0.0000021	0.00000068	0.00000047	0.0000021
2,3,4,6,7,8-HxCDF	NA	0.0000029	NA	0.0000049	0.0000016	0.0000012	0.0000046
HxCDFs (total)	NA	0.0000089 I	NA	0.0011 I	0.000041 I	0.0000076	0.000047 I
1,2,3,4,6,7,8-HpCDF	NA	0.0000055 I	NA	0.000040	0.0000050	0.0000077	0.0000062
1,2,3,4,7,8,9-HpCDF	NA	ND(0.00000029)	NA	0.0000069	0.00000058	ND(0.000000083)	0.0000025
HpCDFs (total)	NA	0.0000056 I	NA	0.000080 I	0.000013	0.0000097	0.000013
OCDF	NA	ND(0.0000049) X	NA	0.000037	0.0000062	0.0000023	0.0000066
Dioxins							
2,3,7,8-TCDD	NA	ND(0.00000051)	NA	ND(0.0000058) X	ND(0.000000049)	ND(0.000000092)	ND(0.00000010)
TCDDs (total)	NA	ND(0.00000051)	NA	ND(0.00000038)	ND(0.000000049)	ND(0.000000092)	ND(0.00000010)
1,2,3,7,8-PeCDD	NA	ND(0.0000020)	NA	ND(0.000019) X	ND(0.00000014)	ND(0.00000018)	ND(0.00000028)
PeCDDs (total)	NA	ND(0.0000020)	NA	ND(0.0000051)	ND(0.00000014)	ND(0.00000018)	ND(0.00000028)
1,2,3,4,7,8-HxCDD	NA	ND(0.0000038) X	NA	ND(0.0000011)	ND(0.000000064)	ND(0.000000063)	0.0000022
1,2,3,6,7,8-HxCDD	NA	ND(0.0000028) X	NA	ND(0.0000011)	0.0000011	ND(0.000000060)	0.0000019
1,2,3,7,8,9-HxCDD	NA	ND(0.0000021) X	NA	ND(0.0000010)	0.00000049	ND(0.000000069)	0.0000022
HxCDDs (total)	NA	ND(0.00000049)	NA	ND(0.0000011)	0.0000084	ND(0.000000069)	0.0000058
1,2,3,4,6,7,8-HpCDD	NA	ND(0.00000047)	NA	0.000023	0.000012	0.0000014	0.0000046
HpCDDs (total)	NA	ND(0.00000047)	NA	0.000053	0.000025	0.0000030	0.0000072
OCDD	NA	0.0000093	NA	0.00017	0.00010	0.0000062	0.000014
Total TEQs (WHO TEFs)	NA	0.0000037	NA	0.000037	0.0000046	0.0000018	0.0000052
Inorganics							
Antimony	NA	ND(6.00)	NA	0.930 B	1.20 B	1.90 B	1.80 B
Arsenic	NA	3.70	NA	3.60	2.20	5.40	4.80
Barium	NA	41.0	NA	26.0	22.0	32.0	22.0
Beryllium	NA	0.380 B	NA	0.230 B	0.240 B	0.310 B	0.260 B
Cadmium	NA	0.410 B	NA	ND(0.42)	0.420 B	0.460 B	0.510
Chromium	NA	18.0	NA	9.00	4.30	7.20	5.30
Cobalt	NA	8.00	NA	5.10	4.30 B	8.00	6.50
Copper	NA	40.0	NA	24.0	12.0	16.0	13.0
Cyanide	NA	0.0910 B	NA	0.100 B	ND(0.560)	ND(0.570)	ND(0.560)
Lead	NA	45.0	NA	44.0	36.0	11.0	15.0
Mercury	NA	0.130 B	NA	0.120	0.0100 B	0.0130 B	ND(0.110)
Nickel	NA	13.0	NA	9.00	6.80	13.0	10.0
Selenium	NA	0.790 B	NA	ND(1.00) J	ND(1.00)	ND(1.00)	ND(1.00)
Silver	NA	ND(1.00)	NA	ND(1.0)	0.170 B	ND(1.00)	0.150 B
Sulfide	NA	44.0	NA	23.0	8.90	11.0	8.90
Tin	NA	ND(10)	NA	ND(10)	3.10 B	3.20 B	2.90 B
Vanadium	NA	9.80	NA	5.60	7.20	6.70	4.60 B
Zinc	NA	84.0	NA	48.0	28.0	46.0	82.0

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter Date Collected:	RAA11-V11.5 4-6 03/15/04	RAA11-V11.5 10-12 03/15/04	RAA11-V11.5 10-15 03/15/04
Volatile Organics			
Acetone	ND(0.022)	ND(0.023) [ND(0.023)]	NA
Semivolatile Organics			
2-Methylnaphthalene	NA	NA	0.45 [0.45]
Acenaphthene	NA	NA	1.2 [1.5]
Acenaphthylene	NA	NA	3.1 [3.8]
Anthracene	NA	NA	4.4 [5.8]
Benzo(a)anthracene	NA	NA	14 [14]
Benzo(a)pyrene	NA	NA	5.5 [6.9]
Benzo(b)fluoranthene	NA	NA	5.1 [5.6]
Benzo(g,h,i)perylene	NA	NA	3.2 [4.0]
Benzo(k)fluoranthene	NA	NA	5.0 [5.9]
Chrysene	NA	NA	16 [16]
Dibenzo(a,h)anthracene	NA	NA	0.99 [1.2]
Dibenzofuran	NA	NA	0.74 [0.96]
Fluoranthene	NA	NA	33 [33]
Fluorene	NA	NA	3.5 [4.3]
Indeno(1,2,3-cd)pyrene	NA	NA	2.7 [3.5]
Naphthalene	NA	NA	0.50 [0.54]
Phenanthrene	NA	NA	27 [27]
Phenol	NA	NA	ND(0.39) [ND(0.39)]
Pyrene	NA	NA	34 [34]
Furans			
2,3,7,8-TCDF	NA	NA	0.0000020 Y [0.0000092 Y]
TCDFs (total)	NA	NA	0.000059 I [0.00016 I]
1,2,3,7,8-PeCDF	NA	NA	0.0000041 [0.000010]
2,3,4,7,8-PeCDF	NA	NA	0.000011 [0.000026]
PeCDFs (total)	NA	NA	0.000077 I [0.00030 I]
1,2,3,4,7,8-HxCDF	NA	NA	ND(0.0000051) X [0.000012]
1,2,3,6,7,8-HxCDF	NA	NA	0.000010 [0.000023 I]
1,2,3,7,8,9-HxCDF	NA	NA	0.0000045 [0.0000098]
2,3,4,6,7,8-HxCDF	NA	NA	0.0000090 [0.000018]
HxCDFs (total)	NA	NA	0.000084 I [0.00023 I]
1,2,3,4,6,7,8-HpCDF	NA	NA	0.000013 [0.000035]
1,2,3,4,7,8,9-HpCDF	NA	NA	0.0000063 [0.0000096]
HpCDFs (total)	NA	NA	0.000032 [0.000049]
OCDF	NA	NA	0.000018 [ND(0.000054) X]
Dioxins			
2,3,7,8-TCDD	NA	NA	ND(0.00000047) [ND(0.00000034)]
TCDDs (total)	NA	NA	ND(0.00000047) [ND(0.00000034)]
1,2,3,7,8-PeCDD	NA	NA	ND(0.0000012) [ND(0.0000023)]
PeCDDs (total)	NA	NA	ND(0.0000012) [ND(0.0000023)]
1,2,3,4,7,8-HxCDD	NA	NA	0.0000048 [ND(0.00000075)]
1,2,3,6,7,8-HxCDD	NA	NA	0.0000041 [ND(0.00000067)]
1,2,3,7,8,9-HxCDD	NA	NA	0.0000060 [ND(0.00000069)]
HxCDDs (total)	NA	NA	0.000016 [ND(0.00000075)]
1,2,3,4,6,7,8-HpCDD	NA	NA	0.000014 [0.000044]
HpCDDs (total)	NA	NA	0.000024 [0.000085]
OCDD	NA	NA	0.000079 [0.00030]
Total TEQs (WHO TEFs)	NA	NA	0.000011 [0.000023]
Inorganics			
Antimony	NA	NA	1.20 B [0.870 B]
Arsenic	NA	NA	4.40 [5.30]
Barium	NA	NA	46.0 [50.0]
Beryllium	NA	NA	0.180 B [0.170 B]
Cadmium	NA	NA	0.530 [0.660]
Chromium	NA	NA	5.40 [6.10]
Cobalt	NA	NA	4.90 B [6.60]
Copper	NA	NA	17.0 [22.0]
Cyanide	NA	NA	0.0770 B [0.140 B]
Lead	NA	NA	110 [160]
Mercury	NA	NA	0.110 B [0.110 B]
Nickel	NA	NA	8.40 [10.0]
Selenium	NA	NA	ND(1.00) [ND(1.00)]
Silver	NA	NA	0.180 B [0.200 B]
Sulfide	NA	NA	100 [83.0]
Tin	NA	NA	5.00 B [3.90 B]
Vanadium	NA	NA	5.00 B [5.30]
Zinc	NA	NA	81.0 [84.0]

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
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. NA - Not Analyzed.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.
7. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)

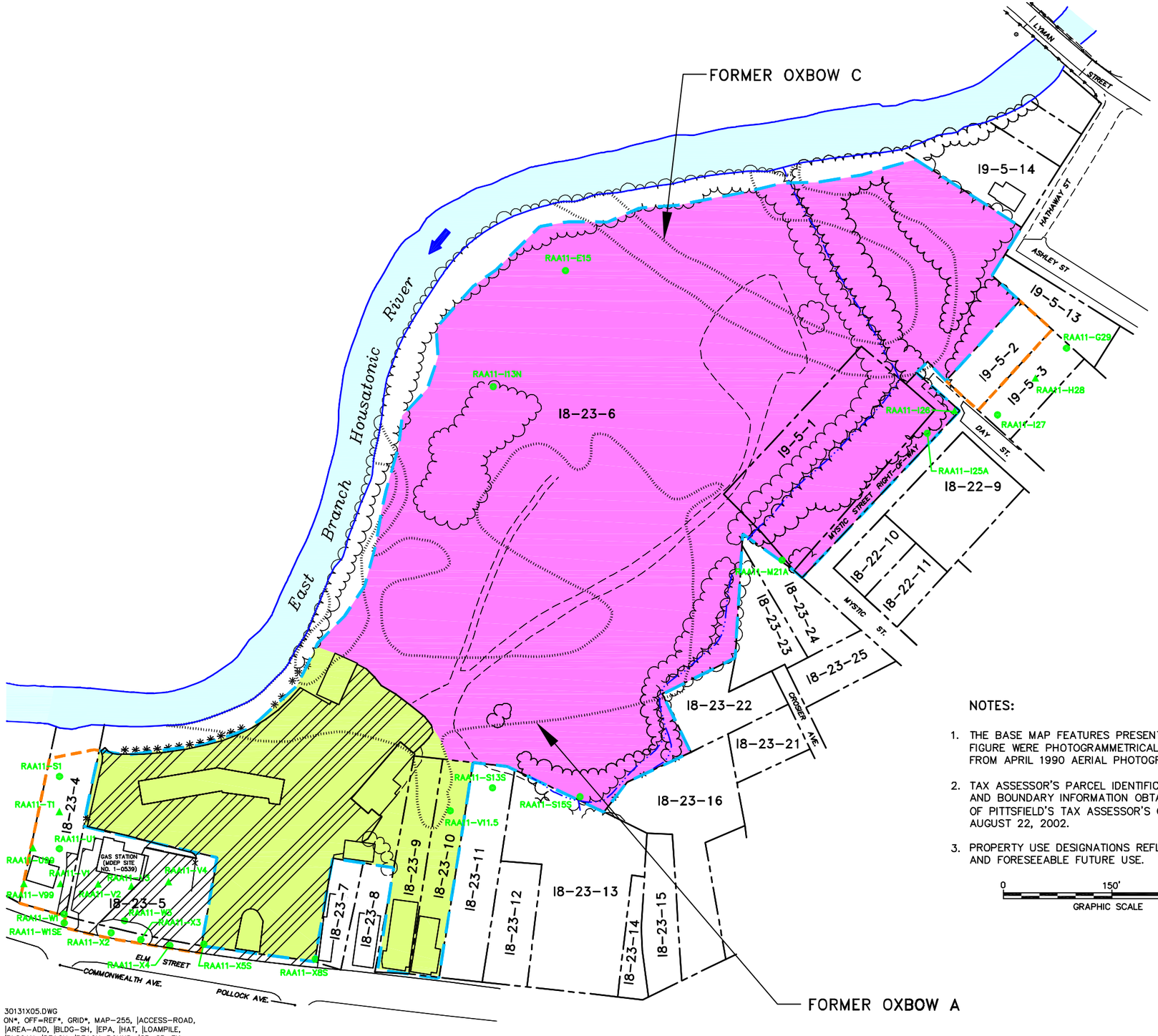
I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
J - Indicates that the associated numerical value is an estimated concentration.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics

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

Figures

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



LEGEND:

- APPROXIMATE REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
- MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES I8–23–4 AND I8–24–5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDRESSING PCBS ONLY)
- EDGE OF WATER
- STREAMS WITH INTERMITTENT FLOW
- PAVED ROADWAY
- UNPAVED ROADWAY OR TRAIL
- VEGETATION
- PROPERTY BOUNDARY
- I8–23–6 PROPERTY ID
- FORMER OXBOW/LOW LYING AREA
- PAVED AREA
- RECREATIONAL PROPERTY (NON–GE OWNED)
- COMMERCIAL/INDUSTRIAL PROPERTY (NON–GE OWNED)
- ▲ SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
- ● SUPPLEMENTAL SOIL BORING SAMPLE LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSOR'S PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE ON AUGUST 22, 2002.
3. PROPERTY USE DESIGNATIONS REFLECT CURRENT AND FORESEEABLE FUTURE USE.

0 150' 300'
GRAPHIC SCALE

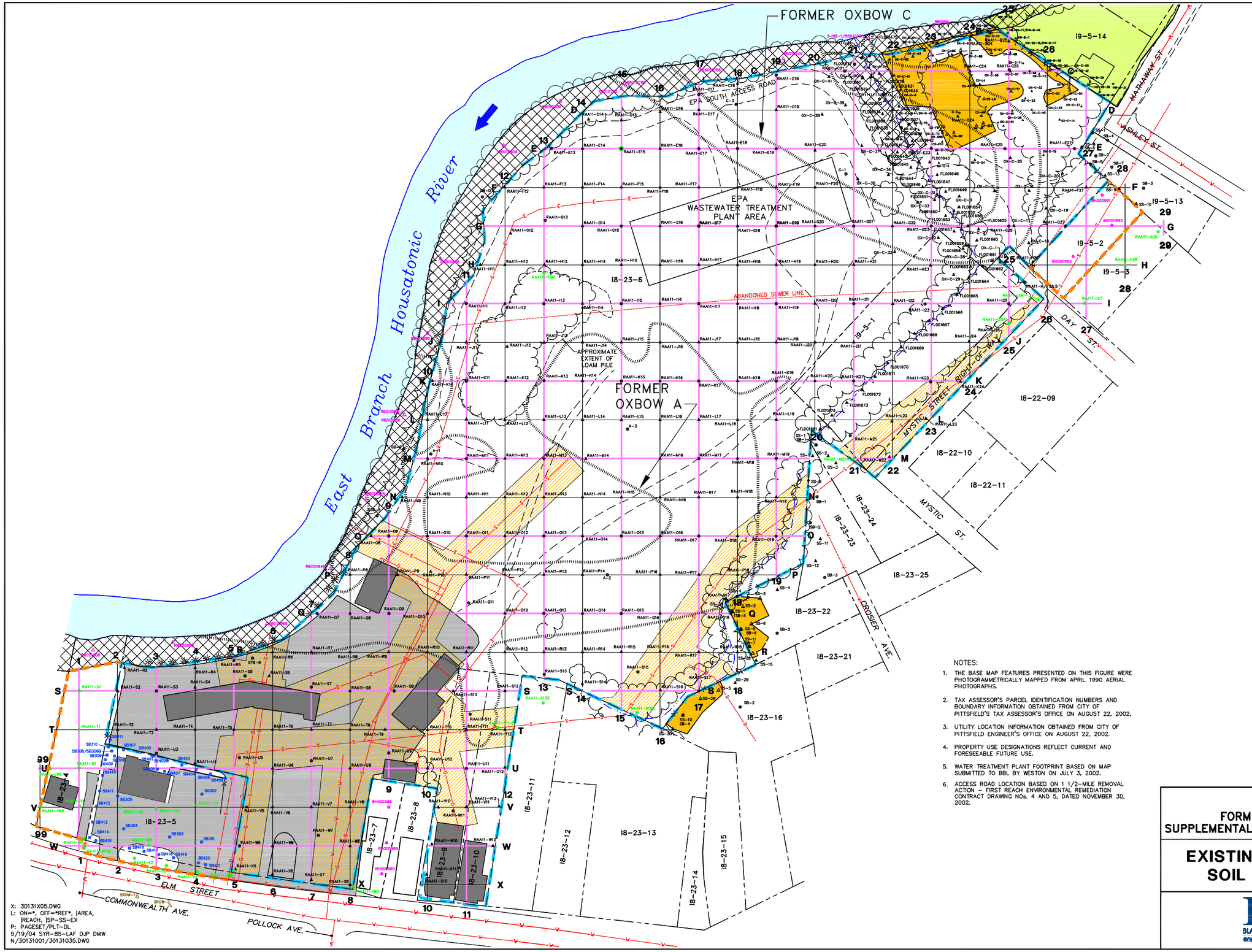
X: 30131X05.DWG
L: ON*, OFF=REF*, GRID*, MAP-255, |ACCESS-ROAD, |AREA-ADD, |BLDG-SH, |EPA, |HAT, |LOAMPILE, |PLSCAN, |REACH, |REACH-BOUND, |SP-SB-EX, |SP-SS-EX, |STREAM-INT
P: PAGESET/PLT-BL
5/19/04 SYR-85-LJP DJP DMW
N/30131001/30130G34.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
FORMER OXBOW AREAS A AND C
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT

SUMMARY OF SUPPLEMENTAL SOIL SAMPLE LOCATIONS

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

FIGURE 1



LEGEND:

- EDGE OF WATER
- UNPAVED ROADWAY OR TRAIL
- VEGETATION
- PROPERTY BOUNDARY
- I8-23-6 PROPERTY ID
- STREAMS WITH INTERMITTENT FLOW
- FORMER OXBOW/LOW LYING AREA
- APPROXIMATE REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
- MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES I8-23-4 AND I8-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDRESSING PCBS ONLY)
- BUILDING
- PAVED AREA
- AREA INCLUDED AS PART OF 1 1/2-MILE REACH REMOVAL ACTION
- G GAS LINE (APPROXIMATE LOCATION)
- S SANITARY SEWER LINE (APPROXIMATE LOCATION)
- D STORM DRAIN LINE (APPROXIMATE LOCATION)
- W WATER LINE (APPROXIMATE LOCATION)
- E UNDERGROUND ELECTRIC LINE (APPROXIMATE LOCATION)
- ▲ SURFACE SOIL SAMPLE LOCATION
- △ REMOVED SURFACE SOIL SAMPLE LOCATION (0– TO 1–FOOT DEPTH) AS PART OF PRIOR REMEDIATION ACTIVITIES
- ● SOIL BORING LOCATION
- ▲ 1 1/2–MILE BANK SOIL SAMPLES (EPA DATA)
- ● SOIL BORING LOCATION (EPA DATA AT ADJACENT PROPERTY)
- ● SAMPLING LOCATION FROM ELM STREET MOBIL INVESTIGATIONS
- ▲ SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
- ● SUPPLEMENTAL SOIL BORING SAMPLE LOCATION
- ◉ SOIL BORING LOCATION SAMPLED AS PART OF PRE–DESIGN AND SUPPLEMENTAL SOIL INVESTIGATIONS
- △ PROPOSED ADDITIONAL SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
- AREA PREVIOUSLY REMEDIATED (0– TO 1–FOOT DEPTH)
- AREA PREVIOUSLY REMEDIATED (AREA SPECIFIC – RANGED FROM 0– TO 12–FOOT MAXIMUM DEPTH)
- APPROXIMATE LOCATION OF BAND SURROUNDING SUBSURFACE UTILITIES (25 FEET WIDE ON EACH SIDE OF UTILITY)
- 50–FOOT SAMPLING GRID
- 100–FOOT SAMPLING GRID

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSOR'S PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE ON AUGUST 22, 2002.
3. UTILITY LOCATION INFORMATION OBTAINED FROM CITY OF PITTSFIELD ENGINEER'S OFFICE ON AUGUST 22, 2002.
4. PROPERTY USE DESIGNATIONS REFLECT CURRENT AND FORESEEABLE FUTURE USE.
5. WATER TREATMENT PLANT FOOTPRINT BASED ON MAP SUBMITTED TO BBL BY WESTON ON JULY 3, 2002.
6. ACCESS ROAD LOCATION BASED ON 1 1/2–MILE REMOVAL ACTION – FIRST REACH ENVIRONMENTAL REMEDIATION CONTRACT DRAWING NOs. 4 AND 5, DATED NOVEMBER 30, 2002.

0 60' 120'
GRAPHIC SCALE

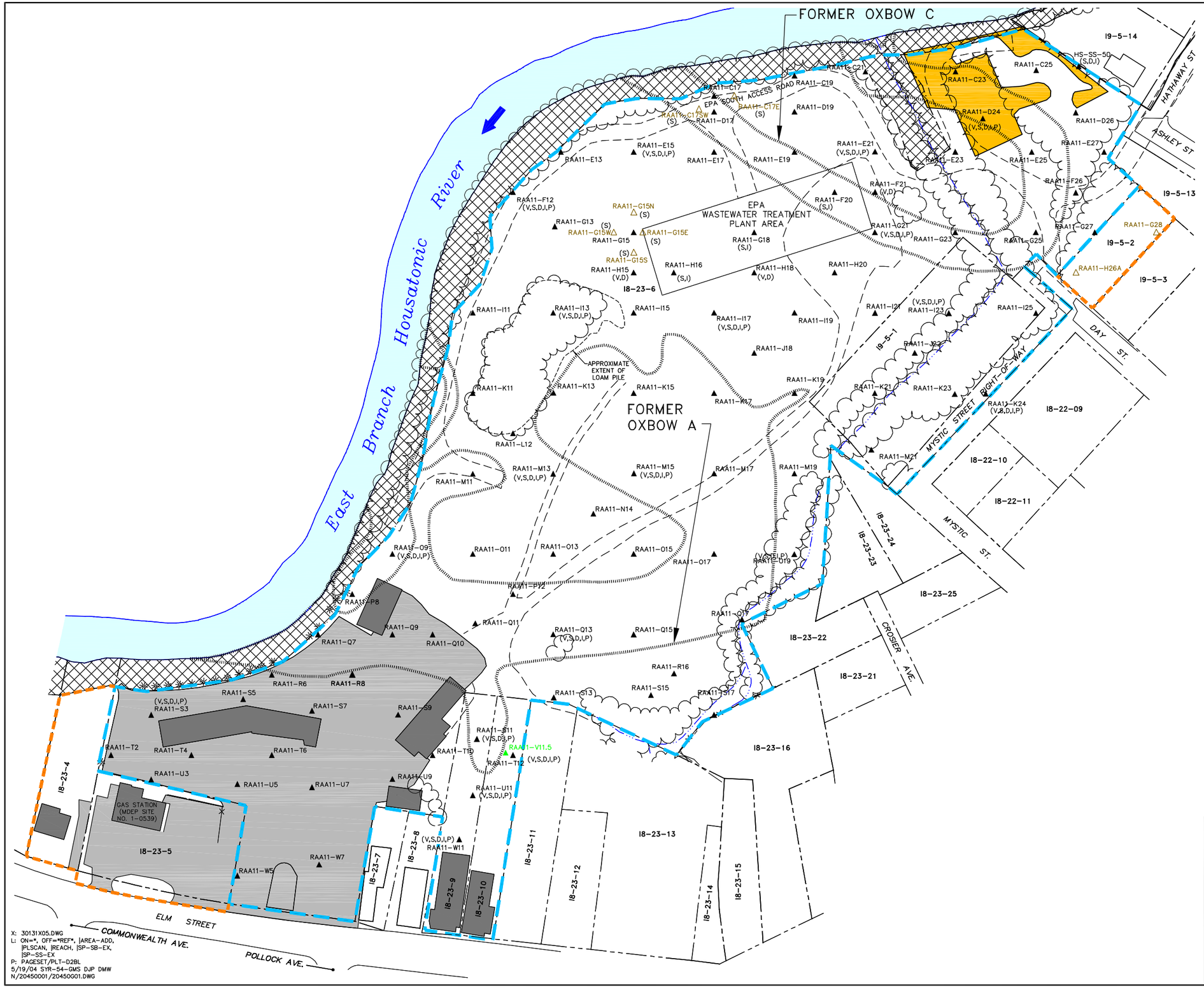
GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C
SUPPLEMENTAL PRE–DESIGN INVESTIGATION REPORT

EXISTING AND PROPOSED PCB SOIL SAMPLE LOCATIONS

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

FIGURE 2

X: 30131X05.DWG
L: ON=*, OFF=*REF*, |AREA, |REACH, |SP-SS-EX
P: PAGESET/PLT-DL
5/19/04 SYR-85-LAF DJP DMW
N/30131001/30131G35.DWG



LEGEND:

- APPROXIMATE REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
- MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES I8-23-4 AND I8-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDESSING PCBS ONLY)
- EDGE OF WATER
- UNPAVED ROADWAY OR TRAIL
- VEGETATION
- PROPERTY BOUNDARY
- I8-23-6 PROPERTY ID
- STREAMS WITH INTERMITTENT FLOW
- FORMER OXBOW/LOW LYING AREA
- BUILDING
- PAVED AREA
- AREA INCLUDED AS PART OF 1 1/2-MILE REACH REMOVAL ACTION
- ▲ SURFACE SOIL SAMPLE LOCATION
- ▲ SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
- △ PROPOSED ADDITIONAL SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
- AREA PREVIOUSLY REMEDIATED (0- TO 1-FOOT DEPTH)

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSOR'S PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE ON AUGUST 22, 2002.
3. PROPERTY USE DESIGNATIONS REFLECT CURRENT AND FORESEEABLE FUTURE USE.
4. WATER TREATMENT PLANT FOOTPRINT BASED ON MAP SUBMITTED TO BBL BY WESTON ON JULY 3, 2002.
5. ACCESS ROAD LOCATION BASED ON 1 1/2-MILE REMOVAL ACTION – FIRST REACH ENVIRONMENTAL REMEDIATION CONTRACT DRAWING NOs. 4 AND 5, DATED NOVEMBER 30, 2002.
6. SOIL SAMPLES INCLUDE ALL OF THE FOLLOWING APPENDIX IX+3 CONSTITUENTS (EXCEPT PESTICIDE AND HERBICIDES) UNLESS ANALYZED ONLY FOR THE PARAMETERS INDICATED IN PARENTHESES:

   V = VOLATILE ORGANIC COMPOUNDS (VOCs)
   S = SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)
   D = POLYCHLORINATED DIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORINATED DIBENZOFURANS (PCDFs)
   I = INORGANICS
   P= PESTICIDES/HERBICIDES

0 60' 120'
GRAPHIC SCALE

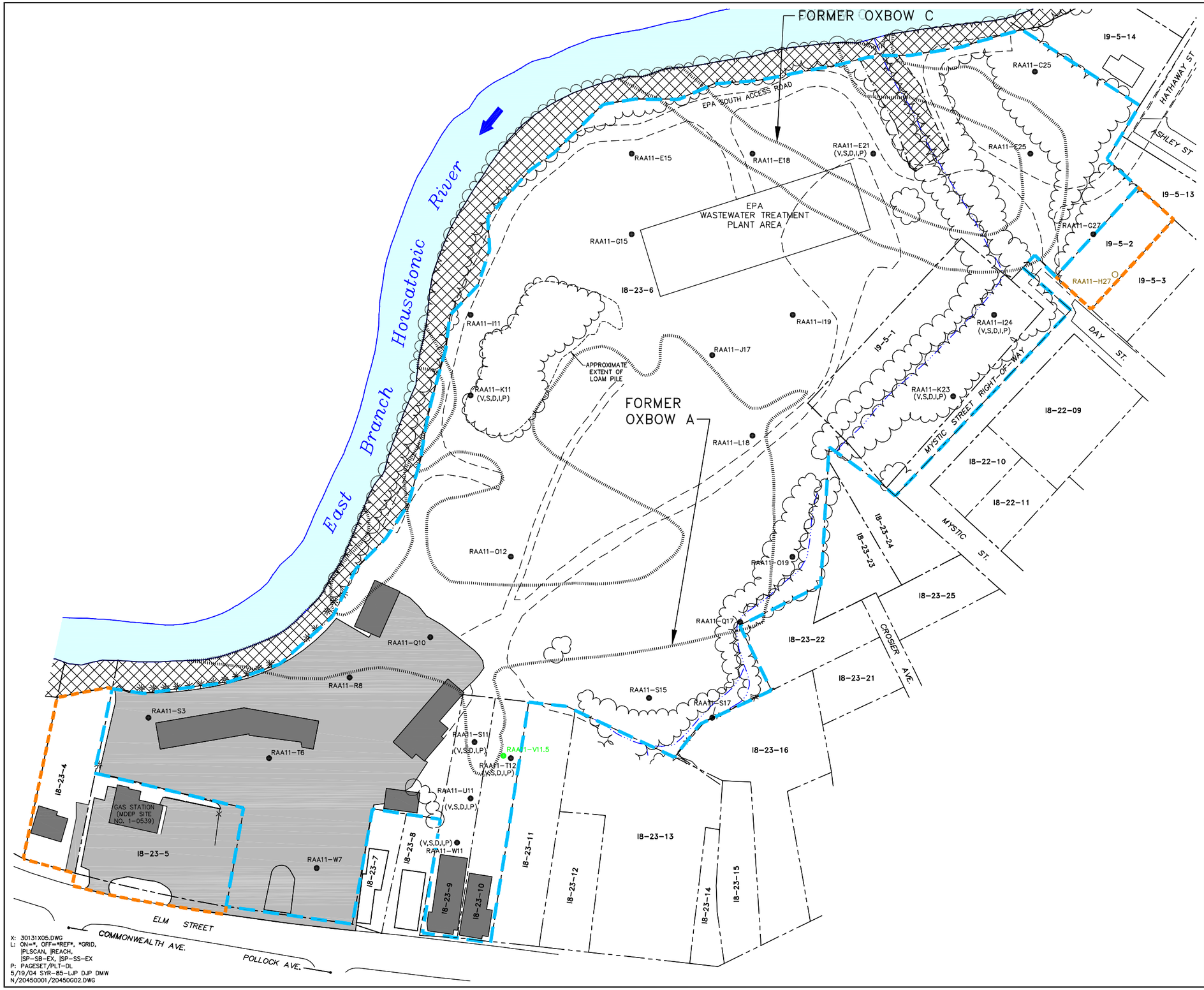
GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT

EXISTING AND PROPOSED APPENDIX IX+3 SOIL SAMPLING LOCATIONS (0- TO 1-FOOT DEPTH INTERVAL)

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

FIGURE 3

X: 30131X05.DWG
L: ON=*, OFF=*REF*, |AREA-ADD, |PLSCAN, |REACH, |SP-SB-EX, |SP-SS-EX
P: PAGESET/PLT-D2BL
5/19/04 SYR-54-GMS DJP DMW
N/20450001/20450G01.DWG



LEGEND:

- APPROXIMATE REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
- MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES I8-23-4 AND I8-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDESSING PCBS ONLY)
- EDGE OF WATER
- UNPAVED ROADWAY OR TRAIL
- VEGETATION
- PROPERTY BOUNDARY
- I8-23-6 PROPERTY ID
- STREAMS WITH INTERMITTENT FLOW
- FORMER OXBOW/LOW LYING AREA
- BUILDING
- PAVED AREA
- AREA INCLUDED AS PART OF 1 1/2-MILE REACH REMOVAL ACTION
- SOIL BORING LOCATION
- SUPPLEMENTAL SOIL BORING LOCATION
- PROPOSED ADDITIONAL SUPPLEMENTAL SOIL BORING SAMPLE LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSOR'S PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE ON AUGUST 22, 2002.
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   D = POLYCHLORINATED DIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORINATED DIBENZOFURANS (PCDFs)
   I = INORGANICS
   P= PESTICIDES/HERBICIDES

0 60' 120'
GRAPHIC SCALE

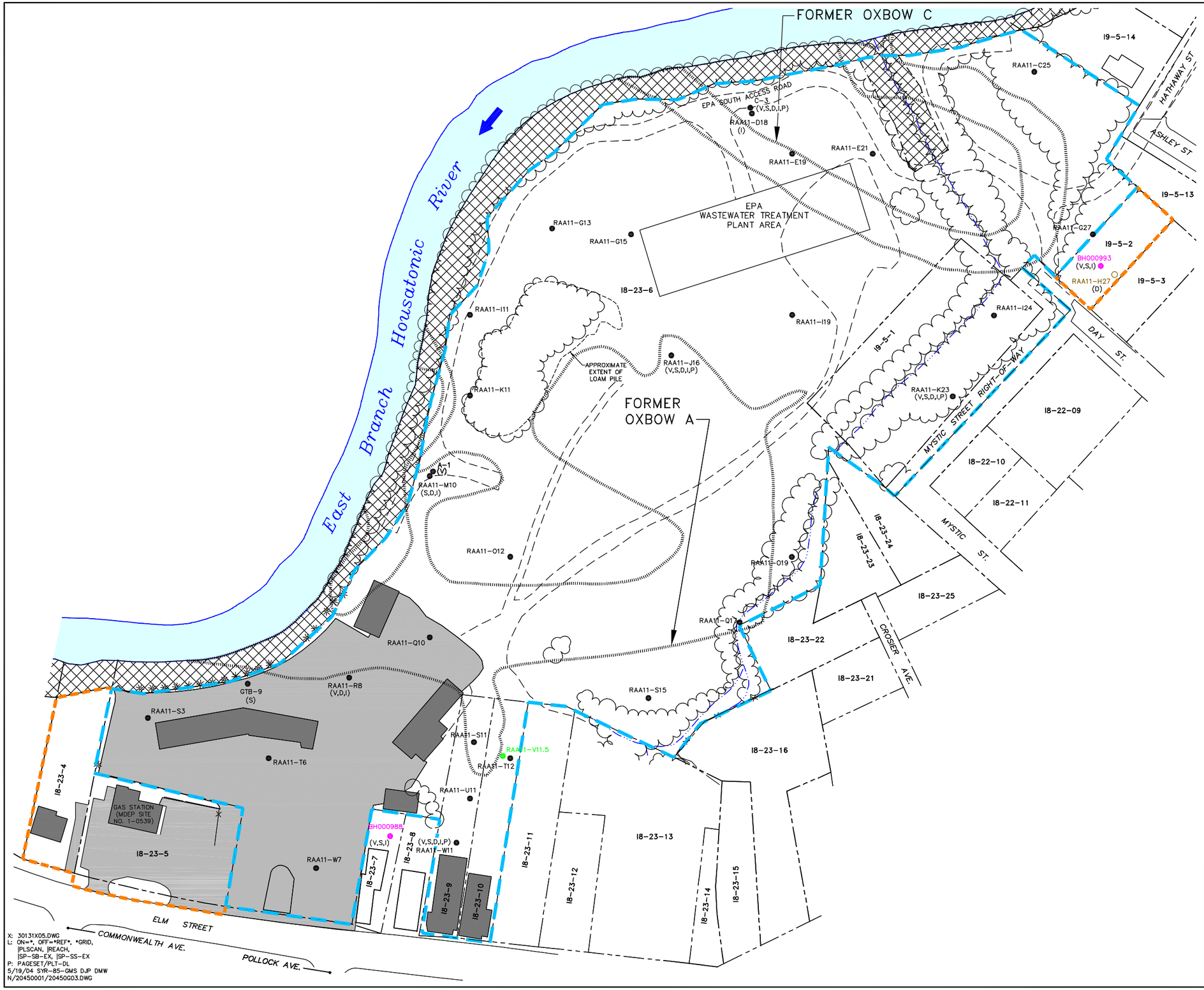
X: 30131X05.DWG
L: ON=*, OFF=*REF*, *GRID, |PLSCAN, |REACH, |SP-SB-EX, |SP-SS-EX
P: PAGESET/PLT-DL
5/19/04 SYR-85-LJP DJP DMW
N/20450001/20450G02.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT

EXISTING AND PROPOSED APPENDIX IX+3 SOIL SAMPLING LOCATIONS (1- TO 3-FOOT DEPTH INTERVAL)

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

FIGURE 4



X: 30131X05.DWG
L: ON=*, OFF=*REF*, *GRID, |PLSCAN, |REACH, |SP-SB-EX, |SP-SS-EX
P: PAGESET/PLT-DL
5/19/04 SYR-85-GMS DJP DMW
N/20450001/20450G03.DWG

LEGEND:

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- EDGE OF WATER
- UNPAVED ROADWAY OR TRAIL
- VEGETATION
- PROPERTY BOUNDARY
- I8-23-6 PROPERTY ID
- STREAMS WITH INTERMITTENT FLOW
- FORMER OXBOW/LOW LYING AREA
- BUILDING
- PAVED AREA
- AREA INCLUDED AS PART OF 1 1/2-MILE REACH REMOVAL ACTION
- SOIL BORING LOCATION
- SOIL BORING LOCATION (EPA DATA AT ADJACENT PROPERTY)
- SUPPLEMENTAL SOIL BORING LOCATION
- PROPOSED ADDITIONAL SUPPLEMENTAL SOIL BORING SAMPLE LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
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   P= PESTICIDES/HERBICIDES

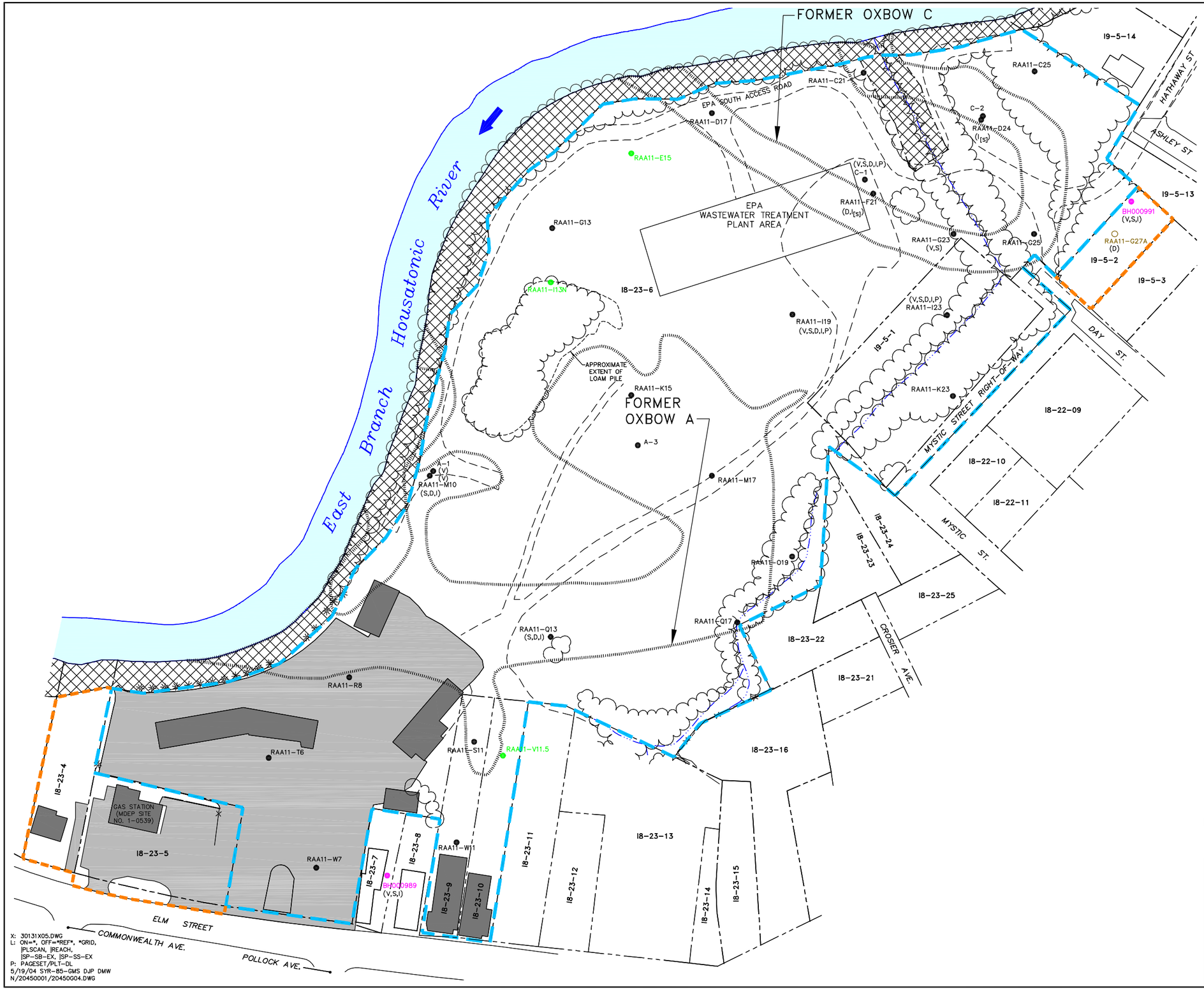
0 60' 120'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT

EXISTING AND PROPOSED APPENDIX IX+3 SOIL SAMPLING LOCATIONS (3- TO 6-FOOT DEPTH INTERVAL)

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

FIGURE 5



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- UNPAVED ROADWAY OR TRAIL
- VEGETATION
- PROPERTY BOUNDARY
- I8-23-6 PROPERTY ID
- STREAMS WITH INTERMITTENT FLOW
- FORMER OXBOW/LOW LYING AREA
- BUILDING
- PAVED AREA
- AREA INCLUDED AS PART OF 1 1/2-MILE REACH REMOVAL ACTION
- SOIL BORING LOCATION
- SOIL BORING LOCATION (EPA DATA AT ADJACENT PROPERTY)
- SUPPLEMENTAL SOIL BORING LOCATION
- PROPOSED ADDITIONAL SUPPLEMENTAL SOIL BORING SAMPLE LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
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   S = SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)
   D = POLYCHLORINATED DIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORINATED DIBENZOFURANS (PCDFs)
   I = INORGANICS
   P= PESTICIDES/HERBICIDES

7. ([s]) = SAMPLE WAS COLLECTED FOR SULFIDE ANALYSIS ONLY.

0 60' 120'
GRAPHIC SCALE

X: 30131X05.DWG
L: ON=*, OFF=*REF*, *GRID, |PLSCAN, |REACH, |SP-SB-EX, |SP-SS-EX
P: PAGESET/PLT-DL
5/19/04 SYR-85-GMS DJP DMW
N/20450001/20450G04.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT

EXISTING AND PROPOSED APPENDIX IX+3 SOIL SAMPLING LOCATIONS (10- TO 15-FOOT DEPTH INTERVAL)

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

FIGURE 6

Attachments

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

Attachment A

Soil Boring Logs

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

Date Start/Finish: 1/22/04 **Drilling Company:** BBL **Driller's Name:** DEG **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 532074.0 **Easting:** 130210.2 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 984.5 **Descriptions By:** SLL	**Boring ID:** RAA11-E15 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985 / 0							
						Pre-probe to 10' bgs.	Borehole backfilled with Bentonite.
980 / 5							
975 / 10	1	10-12	2.0	0.0		Dark brown SILT, moist.	
	2	12-14	3.0	0.0		Gray-brown fine SAND, moist.	
970 / 15	3	14-15		0.0			

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 10-15': PCBs, VOCs (10-12'), SVOCs, Inorganics, PCDDs/PCDFs.

Project: 20450.005
Data File:RAA11-S15S.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/12/04

Date Start/Finish: 2/6/04
Drilling Company: BBL
Driller's Name: TOR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Hand Driven Power Probe
Sample Method: 4' Macrocore

Northing: 531966.9
Easting: 130903.3
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 985.9

Descriptions By: GAR

Boring ID: RAA11-G29

Client: General Electric Company

Location: Former Oxbow Areas A and C
Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 985	1	0-1	0.8	0.0		Brown SILT with fine Sand, some gravel.	Borehole backfilled with Bentonite.
	2	1-3	1.7	0.0		Light brown fine SAND.	
5 / 980	3	3-6	2.8	0.0		Tan fine SAND, some Silt, very moist.	
	4	6-8	1.8	0.0		Gray-brown fine to medium SAND, some Gravel.	
	5	8-10	1.9	0.0		Light brown fine SAND, some Silt, very moist.	
10 / 975	6	10-12	1.9	0.0			
	7	12-15	1.5	0.0		Gray-brown fine to medium SAND, wet.	
15 / 970							

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

Project: 20450.005
Data File:RAA11-G29.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 2/6/04 **Drilling Company:** BBL **Driller's Name:** TOR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Hand Driven Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531924.0 **Easting:** 130860.3 **Casing Elevation:** NA **Borehole Depth:** 1' below grade **Surface Elevation:** 985.7 **Descriptions By:** GAR	**Boring ID:** RAA11-H28 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 985	1	0-1	1.0	0.0		Brown SILT with fine Sand, some medium sand and gravel.	Borehole backfilled with Bentonite.
5 980							
10 975							
15 970							

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

Project: 20450.005
Data File:RAA11-H28.dat

Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 12/23/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531913.6 **Easting:** 130110.5 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 985.0 **Descriptions By:** TJM	**Boring ID:** RAA11-I13N **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 985						Pre-probe to 6' bgs.	Borehole backfilled with Bentonite.
5 980	1	6-8	1.0	0.0		Gray-brown medium SAND and GRAVEL, some fine Sand, little brick fragments, moist.	
	2	8-10	2.0	0.0		Dark brown fine SAND, little medium Sand, trace gravel and coarse sand, wet at 8' bgs.	
10975	3	10-12		0.0			
	4	12-14	1.5	0.0		Dark brown fine SAND, trace medium Sand.	
	5	14-15		0.0			
15970							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 6-10': PCBs;
10-15': PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs.

Date Start/Finish: 1/22/04 **Drilling Company:** BBL **Driller's Name:** DEG **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531849.1 **Easting:** 130710.8 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 982.3 **Descriptions By:** SLL	**Boring ID:** RAA11-I25A **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0						Pre-probe to 1' bgs.	Borehole backfilled with Bentonite.
980	1	1-3	2.5	0.0		Brown SILT with fine Sand, some organic material and gravel, dry.	
	2	3-4		0.0			
5	3	4-6	3.4	0.0		Gray-brown fine SAND, some Silt, moist.	
975	4	6-8		0.0		Gray-brown fine SAND, little Gravel, wet at 8' bgs.	
10	5	8-10	4.0	0.0		Gray-brown fine to medium SAND, saturated.	
	6	10-12		0.0			
970	7	12-14	3.0	0.0			
	8	14-15		0.0			
15							

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

Date Start/Finish: 12/30/03
Drilling Company: BBL
Driller's Name: EGR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 531878.9
Easting: 130748.6
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 984.1

Descriptions By: AMB

Boring ID: RAA11-I26

Client: General Electric Company

Location: Former Oxbow Areas A and C
Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	1.0	0.0		Brown SILT, some medium Sand, trace gravel.	Borehole backfilled with Bentonite.
980							
5							
975							
10							
970							
15							

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

Project: 20450.005
Data File:RAA11-I26.dat

Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/12/04

Date Start/Finish: 2/6/04 **Drilling Company:** BBL **Driller's Name:** DEG **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Hand Driven Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531874.5 **Easting:** 130808.0 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 986.4 **Descriptions By:** SLL	**Boring ID:** RAA11-I27 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 986	1	0-1	1.0	0.3		Brown SILT with fine Sand, some organic material.
985	2	1-3	1.7	0.0		Brown SILT, some fine Sand and Gravel.
	3	3-6	2.6	0.1		Brown fine SAND, some Gravel.
5 / 980	4	6-8	1.8	0.0		Gray-brown fine SAND, some Gravel.
	5	8-10	1.9	0.0		Gray-brown fine to medium SAND.
10 / 975	6	10-12	1.9	0.0		Brown fine SAND, moist.
	7	12-15	2.9	0.0		Gray fine SAND, wet, groundwater at 14' bgs.
15						Gray fine to medium SAND, wet.

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 1-3': PCBs; 3-6': PCBs; 6-10': PCBs; 10-15': PCBs;
Duplicate sample ID: RAA11-Dup-3 (PCBs, 6-10');
MS/MSD collected (PCBs, 10-15).

Date Start/Finish: 12/30/03
Drilling Company: BBL
Driller's Name: EGR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 531673.6
Easting: 130510.1
Casing Elevation: NA

Borehole Depth: 10' below grade
Surface Elevation: 980.7

Descriptions By: AMB

Boring ID: RAA11-M21A

Client: General Electric Company

Location: Former Oxbow Areas A and C
Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 980	1	0-1	3.0	0.0		Dark brown SILT and fine SAND, trace Organic Material and Wood.
						Dark brown fine SAND, some coarse Sand, little medium sand.
	2	1-3		0.0		Dark brown fine SAND, little medium Sand, moist.
	3	3-4		0.0		
5 / 975	4	4-6	2.0	0.0		Orange-brown SILT and fine SAND, medium Sand, coarse sand, trace gravel, wet.
	5	6-8		0.0		
10 / 970	6	8-10	1.0	0.0		Brown fine SAND, some coarse Sand, trace gravel.
15 / 965						

Boring Construction: Borehole backfilled with Bentonite.

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

Project: 20450.005
Data File:RAA11-M21A.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/12/04

Date Start/Finish: 12/22/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531374.4 **Easting:** 129510.8 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 988.5 **Descriptions By:** TJM	**Boring ID:** RAA11-S1 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
990							
0	1	0-1	3.2	0.0		Brown fine SAND and SILT, little Gravel, trace corse sand.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
985	3	3-4		0.0			
5	4	4-6	2.8	0.0		Brown fine SAND, little medium Sand, trace gravel and organic material (wood), moist.	
	5	6-8		0.0		Brown fine SAND, trace coarse Sand and Gravel.	
980	6	8-10	2.4	0.0		Brown fine SAND, trace coarse Sand and Gravel, moist.	
10	7	10-12		0.0			
	8	12-14	2.1	0.0		Gray-brown SILT and fine SAND, trace Gravel, wet. [TILL]	
975						Brown fine SAND, medium Sand, Gravel and coarse Sand, wet.	
	9	14-15		0.0			
15							

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Analyses: 0-1': PCBs; 1-3': PCBs; 3-6': PCBs; 6-10': PCBs; 10-15': PCBs;
Duplicate sample collected (PCBs, 6-10').

Project: 20450.005
Data File:RAA11-S1.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 12/18/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531358.7 **Easting:** 130109.5 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 985.0 **Descriptions By:** TJM	**Boring ID:** RAA11-S13S **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 985							
	1	0-1		0.0		Brown fine SAND, some coarse Sand, little gravel.	
	2	1-3	3.0	0.0		Brown fine SAND and SILT, trace Gravel.	Borehole backfilled with Bentonite.
	3	3-4		0.0		Brown fine SAND and GRAVEL (quartzite).	
5 980	4	4-6		0.0		Brown fine SAND and GRAVEL (quartzite), trace coarse Sand.	
	5	6-8	2.0	0.0		Brown fine SAND and SILT, trace Gravel, moist.	
	6	8-10		0.0		Brown medium SAND, coarse SAND and GRAVEL, wet.	
10975	7	10-12	2.1	0.0		Dark brown-black medium to coarse SAND, some Gravel, trace brick fragments, wet.	
	8	12-14	1.5	0.0		Brown medium SAND, trace coarse Sand, wet.	
	9	14-15		0.0			
15970							

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MS/MSD collected (PCBs, 3-6').

Project: 20450.005
Data File:RAA11-S13S.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 12/30/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531346.6 **Easting:** 130230.6 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 978.6 **Descriptions By:** AMB	**Boring ID:** RAA11-S15S **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
980							
0	1	0-1	2.2	0.0		Brown SILT and fine SAND, trace Gravel.	Borehole backfilled with Bentonite.
	2	1-3		2.1			
975	3	3-4		4.0			
5	4	4-6	2.1	7.0		Dark brown SILT and fine SAND, some medium Sand, trace coarse sand and gravel, moist.	
	5	6-8		0.0			
970	6	8-10	2.4	0.1		Dark gray-black SILT and fine SAND, little medium Sand, trace gravel, moist, odor.	
10	7	10-12		0.2			
	8	12-14	1.5	1.2		Dark gray-black SILT, wet, odor.	
965	9	14-15		0.5		Dark gray-black medium to coarse GRAVEL, odor.	
15							

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Analyses: 0-1': PCBs; 1-3': PCBs; 3-6': PCBs; 6-10': PCBs.

Project: 20450.005
Data File:RAA11-S15S.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/12/04

Date Start/Finish: 12/18/03
Drilling Company: BBL
Driller's Name: EGR
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 531324.1
Easting: 129510.5
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 990.3

Descriptions By: TJM

Boring ID: RAA11-T1

Client: General Electric Company

Location: Former Oxbow Areas A and C
Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 990	1	0-1	1.0	0.0		Gray-brown fine SAND, some coarse Sand, little gravel.	
						Brown fine SAND, some coarse Sand.	Borehole backfilled with Bentonite.
5 / 985							
10 / 980							
15 / 975							

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

Project: 20450.005
Data File:RAA11-T1.dat

Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 12/22/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531274.4 **Easting:** 129510.5 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 991.9 **Descriptions By:** TJM	**Boring ID:** RAA11-U1 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0						
	1	0-1	4.0	0.0		Brown fine SAND, some medium Sand, trace gravel.
990	2	1-3		0.0		Gray-brown medium to coarse SAND, some Gravel.
	3	3-4		0.0		
	4	4-6	3.2	0.0		Brown fine to medium SAND, some coarse Sand, trace gravel, moist.
5						Brown fine SAND, little Gravel, trace coarse sand, wet.
985	5	6-8		0.0		
	6	8-10	2.5	0.0		Light brown fine SAND, little Silt, trace gravel, wet.
10	7	10-12		0.0		
980	8	12-14	1.5	0.0		Light brown fine SAND and SILT, trace Gravel, wet. [TILL]
	9	14-15		0.0		
15						

Boring Construction: Borehole backfilled with Bentonite.

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

Project: 20450.005
Data File:RAA11-U1.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 12/18/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531274.0 **Easting:** 129473.9 **Casing Elevation:** NA **Borehole Depth:** 1' below grade **Surface Elevation:** 991.9 **Descriptions By:** TJM	**Boring ID:** RAA11-U99 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 990	1	0-1	1.0	0.0		Brown SILT, some fine Sand, little organic material. Gray-brown fine SAND, some Gravel, little coarse sand. Brown fine SAND, little medium Sand.	Borehole backfilled with Bentonite.
5 / 985							
10 / 980							
15							

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Analyses: 0-1': PCBs.

Project: 20450.005
Data File:RAA11-U99.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 12/18/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531224.5 **Easting:** 129512.0 **Casing Elevation:** NA **Borehole Depth:** 1' below grade **Surface Elevation:** 992.9 **Descriptions By:** TJM	**Boring ID:** RAA11-V1 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	1.0	0.0		Brown SILT, some fine Sand, trace organic material. Dark brown medium to coarse SAND, some Gravel. Brown SILT and fine SAND, some coarse Sand, trace gravel.	Borehole backfilled with Bentonite.
990							
5							
985							
10							
980							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; duplicate sample collected (PCBs, 0-1').

Date Start/Finish: 3/15/04 **Drilling Company:** BBL **Driller's Name:** JJB **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531326.9 **Easting:** 130051.1 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 985.6 **Descriptions By:** JAB	**Boring ID:** RAA11-V11.5 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 985	1	0-1	3.8	0.0		Dark brown fine to coarse SAND, some Silt and fine to coarse Gravel, moist.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Gray-brown fine SAND and SILT, some medium Sand, little fine to coarse gravel, moist.	
	3	3-4		0.0			
5 / 980	4	4-6	2.0	0.0			
	5	6-8		0.0		WOOD, moist.	
	6	8-10	2.7	0.0		Brown fine to medium SAND, some Silt and fine to medium Gravel, moist.	
10 / 975	7	10-12		0.0		Same as above, wet.	
	8	12-14	1.6	0.0		Dark brown fine to coarse SAND, some Silt, wet.	
	9	14-15		0.0			
15 / 970							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs, VOCs, SVOCs, Inorganics, PCDD/PCDF;
1-3': PCBs, VOCs, SVOCs, Inorganics, PCDD/PCDF; 3-6': PCBs, VOCs
(4-6'), SVOCs, Inorganics, PCDD/PCDF; 6-10': PCBs; 10-15': PCBs, VOCs,
(10-12'), SVOCs, Inorganics, PCDD/PCDF; Duplicate sample IDs: RAA11-Dup-4
(10-15'); RAA11-Dup-5 (10-12'); MS/MSD collected (1-3').

Project: 20450.005
Data File:RAA11-V11.5.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/31/04

Date Start/Finish: 5/5/04 **Drilling Company:** BBL **Driller's Name:** SLL **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531223.9 **Easting:** 129564.0 **Casing Elevation:** NA **Borehole Depth:** 1' below grade **Surface Elevation:** 993.4 **Descriptions By:** JJB	**Boring ID:** RAA11-V2 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	1.0	0.0		Brown fine SAND, little coarse Sand and fine Gravel.	Borehole backfilled with Bentonite.
990							
5							
985							
10							
980							
15							

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

Date Start/Finish: 5/5/04
Drilling Company: BBL
Driller's Name: SLL
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 531221.3
Easting: 129610.1
Casing Elevation: NA

Borehole Depth: 1' below grade
Surface Elevation: 993.9

Descriptions By: JJB

Boring ID: RAA11-V3

Client: General Electric Company

Location: Former Oxbow Areas A and C
Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995 / 0	1	0-1	1.0	0.0		Brown fine to coarse SAND, dry.	Borehole backfilled with Bentonite.
990 / 5							
985 / 10							
980 / 15							

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Analyses: 0-1': PCBs.

Project: 20450.005
Data File:RAA11-V3.dat

Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 5/17/04

Date Start/Finish: 5/5/04 **Drilling Company:** BBL **Driller's Name:** SLL **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531227.1 **Easting:** 129661.4 **Casing Elevation:** NA **Borehole Depth:** 1' below grade **Surface Elevation:** 993.3 **Descriptions By:** JJB	**Boring ID:** RAA11-V4 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	1.0	0.0		Brown fine SAND, trace coarse to medium Sand and fine Gravel, dry.	Borehole backfilled with Bentonite.
990							
5							
985							
10							
980							
15							

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Analyses: 0-1': PCBs.

Date Start/Finish: 12/18/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531224.4 **Easting:** 129461.4 **Casing Elevation:** NA **Borehole Depth:** 1' below grade **Surface Elevation:** 992.5 **Descriptions By:** TJM	**Boring ID:** RAA11-V99 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	1.0	0.0		Dark brown SILT, little fine Sand, trace organic material and gravel. Light brown fine SAND, little medium Sand, trace coarse sand.	Borehole backfilled with Bentonite.
990							
5							
985							
10							
980							
15							

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Analyses: 0-1': PCBs.

Project: 20450.005
Data File:RAA11-V99.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 3/15/04

Date Start/Finish: 12/22/03 **Drilling Company:** BBL **Driller's Name:** EGR **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531183.9 **Easting:** 129517.0 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 992.7 **Descriptions By:** TJM	**Boring ID:** RAA11-W1 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1		0.0		Gray-brown fine SAND, some Gravel.	Borehole backfilled with Bentonite.
	2	1-3	3.1	0.0		Brown fine to medium SAND, little coarse Sand, trace gravel. Moist below 2.1' bgs.	
990	3	3-4		0.0			
	4	4-6		0.0		Brown SILT and fine SAND, trace Gravel, moist.	
5	5	6-8	3.4	0.0		Gray-brown SILT and fine SAND, little coarse Sand and Gravel. [TILL]	
985	6	8-10		0.0		Gray-brown SILT and fine SAND, little coarse Sand, wet. [TILL]	
10	7	10-12	2.4	0.0			
980	8	12-14	2.2	0.0			
	9	14-15		0.0			
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: PCBs; 1-3': PCBs; 3-6': PCBs; 6-10': PCBs; 10-15': PCBs;
MS/MSD collected (PCBs, 10-15').

Date Start/Finish: 5/5/04 **Drilling Company:** BBL **Driller's Name:** SLL **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531171.8 **Easting:** 129517.3 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 992.2 **Descriptions By:** JJB	**Boring ID:** RAA11-W1SE **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1		0.0		Dark brown fine SAND and SILT, trace Organic Material, moist.	Borehole backfilled with Bentonite.
	2	1-3	2.5	0.0		Brown SILT, little fine Sand, trace coarse to medium sand and fine to medium gravel, moist.	
990	3	3-4		0.1			
	4	4-6		0.0		Brown fine SAND and SILT, little coarse to medium Sand and fine to coarse Gravel, wet.	
5	5	6-8	3.4	0.0			
985	6	8-10		0.0			
10	7	10-12	4.0	0.0			
980	8	12-14		0.0			
	9	14-15	3.0	0.0			
15							

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

Date Start/Finish: 5/5/04 **Drilling Company:** BBL **Driller's Name:** SLL **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531174.9 **Easting:** 129600.6 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 993.0 **Descriptions By:** JJB	**Boring ID:** RAA11-W3 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	3.1	0.0		Brown fine SAND, some Silt, little coarse to medium sand and gravel, moist.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
990	3	3-4		0.1			
5	4	4-6	2.8	0.0		Brown SILT, little fine Sand, trace coarse to medium sand and fine gravel, moist.	
	5	6-8		0.0			
985	6	8-10	3.4	0.0			
10	7	10-12		1827		Wet at 10' bgs. Odor at 10' to 12' bgs.	
980	8	12-14	3.0	484		Brown SILT, little fine to coarse Sand, trace fine gravel, wet, strong petroleum odor.	
15	9	14-15		535			

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Analyses: 3-6': PCBs; 6-10': PCBs; 10-15': PCBs;
Duplicate sample ID: RAA11-Dup-7 (PCBs, 10-15');
MS/MSD collected (PCBs, 3-6').

Date Start/Finish: 5/5/04 **Drilling Company:** BBL **Driller's Name:** SLL **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531158.0 **Easting:** 129582.2 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 992.6 **Descriptions By:** JJB	**Boring ID:** RAA11-X2 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	2.6	1.1		Dark brown fine SAND and SILT, trace coarse Sand, fine Gravel and Organic Material.	Borehole backfilled with Bentonite.
	2	1-3		0.8		Brown fine SAND, some Silt, little coarse to medium sand, trace gravel.	
990	3	3-4		0.6			
	4	4-6	3.5	0.0		Brown fine SAND and SILT, little coarse to medium Sand, medium to fine gravel, moist.	
5	5	6-8		0.1			
985	6	8-10	3.5	0.4		Brown SILT, little fine Sand, trace coarse to medium sand and fine gravel, wet.	
10	7	10-12		0.7			
980	8	12-14	3.0	0.0			
	9	14-15		0.0			
15							

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

Date Start/Finish: 5/5/04 **Drilling Company:** BBL **Driller's Name:** SLL **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531148.6 **Easting:** 129623.3 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 992.9 **Descriptions By:** JJB	**Boring ID:** RAA11-X3 **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	2.0	0.1		Dark brown fine SAND and SILT, trace coarse Sand and fine Gravel, moist.	Borehole backfilled with Bentonite.
						GRAVEL and COBBLES.	
	2	1-3		0.1		Brown SILT, some fine Sand, trace medium to coarse sand.	
990	3	3-4		0.0			
5	4	4-6	3.3	0.1		Brown SILT, little fine Sand, trace fine to medium gravel.	
	5	6-8		0.0		Wet at 7.1' bgs.	
985	6	8-10	2.3	0.0		Brown SILT, little fine Sand, trace fine to medium gravel, wet, petroleum odor.	
10	7	10-12		25.3			
980	8	12-14	3.0	1,500			
	9	14-15		64			
15							

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

Date Start/Finish: 5/5/04
Drilling Company: BBL
Driller's Name: SLL
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor Mounted Power Probe
Sample Method: 4' Macrocore

Northing: 531140.5
Easting: 129663.3
Casing Elevation: NA

Borehole Depth: 15' below grade
Surface Elevation: 992.9

Descriptions By: JJB

Boring ID: RAA11-X4

Client: General Electric Company

Location: Former Oxbow Areas A and C
Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	2.2	0.0		Dark brown fine SAND, little Silt, trace fine sand.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Brown fine SAND, little Silt, trace fine gravel, moist.	
990	3	3-4		0.0			
5	4	4-6	3.4	0.1		Brown SILT, little fine to coarse Sand, trace fine gravel, moist.	
	5	6-8		0.1			
985	6	8-10	2.0	0.0			
10	7	10-12		0.0			
980	8	12-14	3.0	58.0		Brown SILT, little coarse Sand, wet, petroleum odor.	
	9	14-15		12.4			
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-3': PCBs; 3-6': PCBs; 6-10': PCBs; 10-15': PCBs;
Duplicate sample ID: RAA11-Dup-6 (PCBs, 10-15').

Project: 20450.005
Data File:RAA11-X4.dat
Template:V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 5/14/04

Date Start/Finish: 5/6/04 **Drilling Company:** BBL **Driller's Name:** JAB **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531142.4 **Easting:** 129710.3 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 992.9 **Descriptions By:** JJB	**Boring ID:** RAA11-X5S **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	2.7	0.0		Brown fine SAND and SILT, little medium to coarse Sand and fine to medium Gravel, moist.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
990	3	3-4		0.0			
5	4	4-6	2.1	0.0		Gray-brown SILT and fine SAND, little fine to medium Gravel, moist.	
	5	6-8		0.0			
985	6	8-10	2.0	0.0		Gray-brown SILT, little fine to medium Sand, trace fine gravel, wet.	
10	7	10-12		0.0			
980	8	12-14	3.0	0.0			
	9	14-15		0.0			
15							

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

Project: 20450.005
Data File:RAA11-X5.dat
Template: V:\GE_Pittsfield_CD_Former_Oxbow Areas_A_C\Notes and Data\Logs-Supplemental
Date: 5/14/04

Date Start/Finish: 5/6/04 **Drilling Company:** BBL **Driller's Name:** JAB **Drilling Method:** Direct Push **Auger Size:** NA **Rig Type:** Tractor Mounted Power Probe **Sample Method:** 4' Macrocore	**Northing:** 531121.6 **Easting:** 129864.4 **Casing Elevation:** NA **Borehole Depth:** 15' below grade **Surface Elevation:** 992.3 **Descriptions By:** JJB	**Boring ID:** RAA11-X8S **Client:** General Electric Company **Location:** Former Oxbow Areas A and C Supplemental Soil Sampling

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	2.2	0.0		Brown fine to medium SAND, some Silt, little fine to medium gravel, moist.	Borehole backfilled with Bentonite.
						Brown-gray fine to medium SAND.	
990	2	1-3		0.0		Orange-brown fine to medium SAND, some Silt, trace fine to medium gravel, moist.	
	3	3-4		0.0			
5	4	4-6	3.7	0.0		Orange-brown fine to medium SAND, moist.	
985	5	6-8		0.0			
						Gray-brown fine SAND, some Silt, moist.	
10	6	8-10	3.0	0.0		Orange-brown fine to medium SAND, trace Silt, moist.	
	7	10-12		0.0		Gray-brown SILT, little fine Sand, trace fine gravel, wet.	
980	8	12-14	3.0	0.0			
15	9	14-15		0.0			

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

Attachment B

Appendix IX+3 Soil Analytical Results

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ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	RAA11-E15	RAA11-E15	RAA11-I13N	RAA11-I13N	RAA11-V11.5	RAA11-V11.5
Sample Depth(Feet):	10-12	10-15	10-12	10-15	0-1	1-3
Parameter Date Collected:	01/22/04	01/22/04	12/23/03	12/23/03	03/15/04	03/15/04
Volatile Organics						
1,1,1,2-Tetrachloroethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,1,1-Trichloroethane	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,1,2,2-Tetrachloroethane	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,1,2-Trichloroethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,1-Dichloroethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,1-Dichloroethene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,2,3-Trichloropropane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,2-Dibromo-3-chloropropane	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,2-Dibromoethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,2-Dichloroethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,2-Dichloropropane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
1,4-Dioxane	ND(0.14) J	NA	ND(0.11) J	NA	ND(0.11)	ND(0.11)
2-Butanone	ND(0.014)	NA	ND(0.011)	NA	ND(0.011)	ND(0.011)
2-Chloro-1,3-butadiene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
2-Chloroethylvinylether	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
2-Hexanone	ND(0.014)	NA	ND(0.011)	NA	ND(0.011)	ND(0.011)
3-Chloropropene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
4-Methyl-2-pentanone	ND(0.014)	NA	ND(0.011)	NA	ND(0.011)	ND(0.011)
Acetone	0.033	NA	ND(0.023)	NA	ND(0.022)	ND(0.023)
Acetonitrile	ND(0.14) J	NA	ND(0.11) J	NA	ND(0.11)	ND(0.11)
Acrolein	ND(0.14) J	NA	ND(0.11) J	NA	ND(0.11)	ND(0.11)
Acrylonitrile	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Benzene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Bromodichloromethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Bromoform	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Bromomethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Carbon Disulfide	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Carbon Tetrachloride	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Chlorobenzene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Chloroethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Chloroform	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Chloromethane	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
cis-1,3-Dichloropropene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Dibromochloromethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Dibromomethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Dichlorodifluoromethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Ethyl Methacrylate	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Ethylbenzene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Iodomethane	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Isobutanol	ND(0.14) J	NA	ND(0.11) J	NA	ND(0.11)	ND(0.11)
Methacrylonitrile	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Methyl Methacrylate	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Methylene Chloride	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Propionitrile	ND(0.014) J	NA	ND(0.011) J	NA	ND(0.011)	ND(0.011)
Styrene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Tetrachloroethene	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Toluene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
trans-1,2-Dichloroethene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
trans-1,3-Dichloropropene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
trans-1,4-Dichloro-2-butene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Trichloroethene	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Trichlorofluoromethane	ND(0.0068) J	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Vinyl Acetate	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Vinyl Chloride	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Xylenes (total)	ND(0.0068)	NA	ND(0.0056)	NA	ND(0.0056)	ND(0.0057)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
1,2,4-Trichlorobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
1,2-Dichlorobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
1,2-Diphenylhydrazine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
1,3,5-Trinitrobenzene	NA	ND(0.46) J	NA	ND(0.40)	ND(0.37)	ND(0.38)
1,3-Dichlorobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
1,3-Dinitrobenzene	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
1,4-Dichlorobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)

ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	RAA11-E15	RAA11-E15	RAA11-I13N	RAA11-I13N	RAA11-V11.5	RAA11-V11.5
Sample Depth(Feet):	10-12	10-15	10-12	10-15	0-1	1-3
Parameter Date Collected:	01/22/04	01/22/04	12/23/03	12/23/03	03/15/04	03/15/04
Semivolatile Organics (continued)						
1,4-Naphthoquinone	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
1-Naphthylamine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
2,3,4,6-Tetrachlorophenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2,4,5-Trichlorophenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2,4,6-Trichlorophenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2,4-Dichlorophenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2,4-Dimethylphenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2,4-Dinitrophenol	NA	ND(2.3)	NA	ND(2.0)	ND(1.9)	ND(1.9)
2,4-Dinitrotoluene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2,6-Dichlorophenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2,6-Dinitrotoluene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2-Acetylaminofluorene	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
2-Chloronaphthalene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2-Chlorophenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2-Methylnaphthalene	NA	ND(0.46)	NA	0.14 J	ND(0.37)	ND(0.38)
2-Methylphenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
2-Naphthylamine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
2-Nitroaniline	NA	ND(2.3)	NA	ND(2.0)	ND(1.9)	ND(1.9)
2-Nitrophenol	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
2-Picoline	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
3&4-Methylphenol	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
3,3'-Dichlorobenzidine	NA	ND(0.92)	NA	ND(0.79) J	ND(0.75)	ND(0.76)
3,3'-Dimethylbenzidine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
3-Methylcholanthrene	NA	ND(0.92)	NA	ND(0.79) J	ND(0.75)	ND(0.76)
3-Nitroaniline	NA	ND(2.3)	NA	ND(2.0)	ND(1.9)	ND(1.9)
4,6-Dinitro-2-methylphenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
4-Aminobiphenyl	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
4-Bromophenyl-phenylether	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
4-Chloro-3-Methylphenol	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
4-Chloroaniline	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
4-Chlorobenzilate	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
4-Chlorophenyl-phenylether	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
4-Nitroaniline	NA	ND(2.3)	NA	ND(2.0)	ND(1.9)	ND(1.9)
4-Nitrophenol	NA	ND(2.3) J	NA	ND(2.0) J	ND(1.9)	ND(1.9)
4-Nitroquinoline-1-oxide	NA	ND(0.92) J	NA	ND(0.79) J	ND(0.75)	ND(0.76)
4-Phenylenediamine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
5-Nitro-o-toluidine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
7,12-Dimethylbenz(a)anthracene	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
a,a'-Dimethylphenethylamine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
Acenaphthene	NA	ND(0.46)	NA	ND(0.40)	0.37 J	ND(0.38)
Acenaphthylene	NA	0.28 J	NA	0.13 J	0.11 J	ND(0.38)
Acetophenone	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Aniline	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Anthracene	NA	0.12 J	NA	0.22 J	ND(0.37)	ND(0.38)
Aramite	NA	ND(0.92)	NA	ND(0.79) J	ND(0.75)	ND(0.76)
Benzidine	NA	ND(0.92) J	NA	ND(0.79) J	ND(0.75)	ND(0.76)
Benzo(a)anthracene	NA	0.32 J	NA	0.41	0.14 J	ND(0.38)
Benzo(a)pyrene	NA	0.40 J	NA	0.22 J	0.11 J	ND(0.38)
Benzo(b)fluoranthene	NA	0.24 J	NA	0.20 J	0.099 J	ND(0.38)
Benzo(g,h,i)perylene	NA	0.22 J	NA	0.14 J	0.12 J	ND(0.38)
Benzo(k)fluoranthene	NA	0.29 J	NA	0.22 J	0.10 J	ND(0.38)
Benzyl Alcohol	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
bis(2-Chloroethoxy)methane	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
bis(2-Chloroethyl)ether	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
bis(2-Chloroisopropyl)ether	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
bis(2-Ethylhexyl)phthalate	NA	ND(0.45)	NA	ND(0.39)	ND(0.37)	ND(0.37)
Butylbenzylphthalate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Chrysene	NA	0.46	NA	0.46	0.18 J	ND(0.38)
Diallate	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
Dibenzo(a,h)anthracene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Dibenzofuran	NA	ND(0.46)	NA	0.080 J	ND(0.37)	ND(0.38)
Diethylphthalate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Dimethylphthalate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Di-n-Butylphthalate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Semivolatile Organics (continued)						
Di-n-Octylphthalate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Diphenylamine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Ethyl Methanesulfonate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Fluoranthene	NA	0.40 J	NA	0.97	0.22 J	ND(0.38)
Fluorene	NA	ND(0.46)	NA	0.16 J	ND(0.37)	ND(0.38)
Hexachlorobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Hexachlorobutadiene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Hexachlorocyclopentadiene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Hexachloroethane	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)

ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Parameter Date Collected:	RAA11-E15 10-12 01/22/04	RAA11-E15 10-15 01/22/04	RAA11-I13N 10-12 12/23/03	RAA11-I13N 10-15 12/23/03	RAA11-V11.5 0-1 03/15/04	RAA11-V11.5 1-3 03/15/04
Hexachlorophene	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
Hexachloropropene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Indeno(1,2,3-cd)pyrene	NA	0.15 J	NA	0.11 J	0.082 J	ND(0.38)
Isodrin	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Isophorone	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Isosafrole	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
Methapyrilene	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
Methyl Methanesulfonate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Naphthalene	NA	ND(0.46)	NA	0.25 J	ND(0.37)	ND(0.38)
Nitrobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
N-Nitrosodiethylamine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
N-Nitrosodimethylamine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
N-Nitroso-di-n-butylamine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
N-Nitroso-di-n-propylamine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
N-Nitrosodiphenylamine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
N-Nitrosomethylethylamine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
N-Nitrosomorpholine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
N-Nitrosopiperidine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
N-Nitrosopyrrolidine	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
o,o,o-Triethylphosphorothioate	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
o-Toluidine	NA	ND(0.46)	NA	ND(0.40) J	ND(0.37)	ND(0.38)
p-Dimethylaminoazobenzene	NA	ND(0.92)	NA	ND(0.79) J	ND(0.75)	ND(0.76)
Pentachlorobenzene	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Pentachloroethane	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Pentachloronitrobenzene	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
Pentachlorophenol	NA	ND(2.3)	NA	ND(2.0)	ND(1.9)	ND(1.9)
Phenacetin	NA	ND(0.92)	NA	ND(0.79)	ND(0.75)	ND(0.76)
Phenanthrene	NA	0.12 J	NA	0.87	ND(0.37)	ND(0.38)
Phenol	NA	ND(0.46)	NA	0.098 J	ND(0.37)	ND(0.38)
Pronamide	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Pyrene	NA	0.72	NA	0.89	0.26 J	ND(0.38)
Pyridine	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Safrole	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Thionazin	NA	ND(0.46)	NA	ND(0.40)	ND(0.37)	ND(0.38)
Furans						
2,3,7,8-TCDF	NA	0.0000068 Y	NA	0.000022 Y	0.0000019 Y	0.00000061 Y
TCDFs (total)	NA	0.000019 I	NA	0.0016 I	0.000036 I	0.0000032
1,2,3,7,8-PeCDF	NA	0.0000031	NA	0.000021	0.0000035	0.0000016
2,3,4,7,8-PeCDF	NA	ND(0.00000052)	NA	0.000016	0.0000064	0.0000019
PeCDFs (total)	NA	0.000013 I	NA	0.0017 I	0.000050 I	0.0000052
1,2,3,4,7,8-HxCDF	NA	ND(0.0000043) X	NA	0.000010	0.0000017	0.0000016
1,2,3,6,7,8-HxCDF	NA	0.0000034	NA	0.00011	0.0000021	0.0000013
1,2,3,7,8,9-HxCDF	NA	ND(0.0000027) X	NA	0.0000021	0.00000068	0.00000047
2,3,4,6,7,8-HxCDF	NA	0.0000029	NA	0.0000049	0.0000016	0.0000012
HxCDFs (total)	NA	0.0000089 I	NA	0.0011 I	0.000041 I	0.0000076
1,2,3,4,6,7,8-HpCDF	NA	0.0000055 I	NA	0.000040	0.0000050	0.0000077
1,2,3,4,7,8,9-HpCDF	NA	ND(0.00000029)	NA	0.0000069	0.00000058	ND(0.000000083)
HpCDFs (total)	NA	0.0000056 I	NA	0.000080 I	0.000013	0.0000097
OCDF	NA	ND(0.0000049) X	NA	0.000037	0.0000062	0.0000023

ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA11-E15 10-12 01/22/04	RAA11-E15 10-15 01/22/04	RAA11-I13N 10-12 12/23/03	RAA11-I13N 10-15 12/23/03	RAA11-V11.5 0-1 03/15/04	RAA11-V11.5 1-3 03/15/04
Dioxins						
2,3,7,8-TCDD	NA	ND(0.00000051)	NA	ND(0.0000058) X	ND(0.000000049)	ND(0.000000092)
TCDDs (total)	NA	ND(0.00000051)	NA	ND(0.00000038)	ND(0.000000049)	ND(0.000000092)
1,2,3,7,8-PeCDD	NA	ND(0.0000020)	NA	ND(0.000019) X	ND(0.00000014)	ND(0.00000018)
PeCDDs (total)	NA	ND(0.0000020)	NA	ND(0.0000051)	ND(0.00000014)	ND(0.00000018)
1,2,3,4,7,8-HxCDD	NA	ND(0.0000038) X	NA	ND(0.0000011)	ND(0.000000064)	ND(0.000000063)
1,2,3,6,7,8-HxCDD	NA	ND(0.0000028) X	NA	ND(0.0000011)	0.0000011	ND(0.000000060)
1,2,3,7,8,9-HxCDD	NA	ND(0.0000021) X	NA	ND(0.0000010)	0.00000049	ND(0.000000069)
HxCDDs (total)	NA	ND(0.00000049)	NA	ND(0.0000011)	0.0000084	ND(0.000000069)
1,2,3,4,6,7,8-HpCDD	NA	ND(0.00000047)	NA	0.000023	0.000012	0.0000014
HpCDDs (total)	NA	ND(0.00000047)	NA	0.000053	0.000025	0.0000030
OCDD	NA	0.0000093	NA	0.00017	0.00010	0.0000062
Total TEQs (WHO TEFs)	NA	0.0000037	NA	0.000037	0.0000046	0.0000018
Inorganics						
Antimony	NA	ND(6.00)	NA	0.930 B	1.20 B	1.90 B
Arsenic	NA	3.70	NA	3.60	2.20	5.40
Barium	NA	41.0	NA	26.0	22.0	32.0
Beryllium	NA	0.380 B	NA	0.230 B	0.240 B	0.310 B
Cadmium	NA	0.410 B	NA	ND(0.42)	0.420 B	0.460 B
Chromium	NA	18.0	NA	9.00	4.30	7.20
Cobalt	NA	8.00	NA	5.10	4.30 B	8.00
Copper	NA	40.0	NA	24.0	12.0	16.0
Cyanide	NA	0.0910 B	NA	0.100 B	ND(0.560)	ND(0.570)
Lead	NA	45.0	NA	44.0	36.0	11.0
Mercury	NA	0.130 B	NA	0.120	0.0100 B	0.0130 B
Nickel	NA	13.0	NA	9.00	6.80	13.0
Selenium	NA	0.790 B	NA	ND(1.00) J	ND(1.00)	ND(1.00)
Silver	NA	ND(1.00)	NA	ND(1.0)	0.170 B	ND(1.00)
Sulfide	NA	44.0	NA	23.0	8.90	11.0
Thallium	NA	ND(1.40)	NA	ND(1.20)	ND(1.10)	ND(1.10)
Tin	NA	ND(10)	NA	ND(10)	3.10 B	3.20 B
Vanadium	NA	9.80	NA	5.60	7.20	6.70
Zinc	NA	84.0	NA	48.0	28.0	46.0

ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA11-V11.5 3-6 03/15/04	RAA11-V11.5 4-6 03/15/04	RAA11-V11.5 10-12 03/15/04	RAA11-V11.5 10-15 03/15/04
Volatile Organics				
1,1,1,2-Tetrachloroethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,1,1-Trichloroethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,1,2,2-Tetrachloroethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,1,2-Trichloroethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,1-Dichloroethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,1-Dichloroethene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,2,3-Trichloropropane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,2-Dibromo-3-chloropropane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,2-Dibromoethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,2-Dichloroethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,2-Dichloropropane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
1,4-Dioxane	NA	ND(0.11)	ND(0.11) [ND(0.11)]	NA
2-Butanone	NA	ND(0.011)	ND(0.011) [ND(0.011)]	NA
2-Chloro-1,3-butadiene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
2-Chloroethylvinylether	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
2-Hexanone	NA	ND(0.011)	ND(0.011) [ND(0.011)]	NA
3-Chloropropene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
4-Methyl-2-pentanone	NA	ND(0.011)	ND(0.011) [ND(0.011)]	NA
Acetone	NA	ND(0.022)	ND(0.023) [ND(0.023)]	NA
Acetonitrile	NA	ND(0.11)	ND(0.11) [ND(0.11)]	NA
Acrolein	NA	ND(0.11)	ND(0.11) [ND(0.11)]	NA
Acrylonitrile	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Benzene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Bromodichloromethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Bromoform	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Bromomethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Carbon Disulfide	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Carbon Tetrachloride	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Chlorobenzene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Chloroethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Chloroform	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Chloromethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
cis-1,3-Dichloropropene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Dibromochloromethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Dibromomethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Dichlorodifluoromethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Ethyl Methacrylate	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Ethylbenzene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Iodomethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Isobutanol	NA	ND(0.11)	ND(0.11) [ND(0.11)]	NA
Methacrylonitrile	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Methyl Methacrylate	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Methylene Chloride	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Propionitrile	NA	ND(0.011)	ND(0.011) [ND(0.011)]	NA
Styrene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Tetrachloroethene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Toluene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
trans-1,2-Dichloroethene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
trans-1,3-Dichloropropene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
trans-1,4-Dichloro-2-butene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Trichloroethene	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Trichlorofluoromethane	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Vinyl Acetate	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Vinyl Chloride	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Xylenes (total)	NA	ND(0.0056)	ND(0.0057) [ND(0.0057)]	NA
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
1,2,4-Trichlorobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
1,2-Dichlorobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
1,2-Diphenylhydrazine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
1,3,5-Trinitrobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
1,3-Dichlorobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
1,3-Dinitrobenzene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
1,4-Dichlorobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]

ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	RAA11-V11.5	RAA11-V11.5	RAA11-V11.5	RAA11-V11.5
Sample Depth(Feet):	3-6	4-6	10-12	10-15
Parameter Date Collected:	03/15/04	03/15/04	03/15/04	03/15/04
Semivolatile Organics (continued)				
1,4-Naphthoquinone	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
1-Naphthylamine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
2,3,4,6-Tetrachlorophenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2,4,5-Trichlorophenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2,4,6-Trichlorophenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2,4-Dichlorophenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2,4-Dimethylphenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2,4-Dinitrophenol	ND(1.9)	NA	NA	ND(2.0) [ND(2.0)]
2,4-Dinitrotoluene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2,6-Dichlorophenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2,6-Dinitrotoluene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2-Acetylaminofluorene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
2-Chloronaphthalene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2-Chlorophenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2-Methylnaphthalene	ND(0.37)	NA	NA	0.45 [0.45]
2-Methylphenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
2-Naphthylamine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
2-Nitroaniline	ND(1.9)	NA	NA	ND(2.0) [ND(2.0)]
2-Nitrophenol	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
2-Picoline	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
3&4-Methylphenol	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
3,3'-Dichlorobenzidine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
3,3'-Dimethylbenzidine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
3-Methylcholanthrene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
3-Nitroaniline	ND(1.9)	NA	NA	ND(2.0) [ND(2.0)]
4,6-Dinitro-2-methylphenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
4-Aminobiphenyl	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
4-Bromophenyl-phenylether	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
4-Chloro-3-Methylphenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
4-Chloroaniline	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
4-Chlorobenzilate	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
4-Chlorophenyl-phenylether	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
4-Nitroaniline	ND(1.9)	NA	NA	ND(2.0) [ND(2.0)]
4-Nitrophenol	ND(1.9)	NA	NA	ND(2.0) [ND(2.0)]
4-Nitroquinoline-1-oxide	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
4-Phenylenediamine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
5-Nitro-o-toluidine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
7,12-Dimethylbenz(a)anthracene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
a,a'-Dimethylphenethylamine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Acenaphthene	0.21 J	NA	NA	1.2 [1.5]
Acenaphthylene	0.34 J	NA	NA	3.1 [3.8]
Acetophenone	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Aniline	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Anthracene	0.43	NA	NA	4.4 [5.8]
Aramite	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Benzidine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Benzo(a)anthracene	0.52	NA	NA	14 [14]
Benzo(a)pyrene	0.20 J	NA	NA	5.5 [6.9]
Benzo(b)fluoranthene	0.33 J	NA	NA	5.1 [5.6]
Benzo(g,h,i)perylene	0.12 J	NA	NA	3.2 [4.0]
Benzo(k)fluoranthene	0.28 J	NA	NA	5.0 [5.9]
Benzyl Alcohol	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
bis(2-Chloroethoxy)methane	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
bis(2-Chloroethyl)ether	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
bis(2-Chloroisopropyl)ether	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
bis(2-Ethylhexyl)phthalate	ND(0.37)	NA	NA	ND(0.38) [ND(0.38)]
Butylbenzylphthalate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Chrysene	0.74	NA	NA	16 [16]
Diallate	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Dibenzo(a,h)anthracene	ND(0.37)	NA	NA	0.99 [1.2]
Dibenzofuran	0.10 J	NA	NA	0.74 [0.96]
Diethylphthalate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Dimethylphthalate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Di-n-Butylphthalate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Semivolatile Organics (continued)				
Di-n-Octylphthalate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Diphenylamine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Ethyl Methanesulfonate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Fluoranthene	1.7	NA	NA	33 [33]
Fluorene	0.21 J	NA	NA	3.5 [4.3]
Hexachlorobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Hexachlorobutadiene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Hexachlorocyclopentadiene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Hexachloroethane	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]

ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Parameter Date Collected:	RAA11-V11.5 3-6 03/15/04	RAA11-V11.5 4-6 03/15/04	RAA11-V11.5 10-12 03/15/04	RAA11-V11.5 10-15 03/15/04
Hexachlorophene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Hexachloropropene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Indeno(1,2,3-cd)pyrene	0.11 J	NA	NA	2.7 [3.5]
Isodrin	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Isophorone	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Isosafrole	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Methapyrilene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Methyl Methanesulfonate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Naphthalene	ND(0.37)	NA	NA	0.50 [0.54]
Nitrobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
N-Nitrosodiethylamine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
N-Nitrosodimethylamine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
N-Nitroso-di-n-butylamine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
N-Nitroso-di-n-propylamine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
N-Nitrosodiphenylamine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
N-Nitrosomethylethylamine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
N-Nitrosomorpholine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
N-Nitrosopiperidine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
N-Nitrosopyrrolidine	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
o,o,o-Triethylphosphorothioate	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
o-Toluidine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
p-Dimethylaminoazobenzene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Pentachlorobenzene	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Pentachloroethane	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Pentachloronitrobenzene	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Pentachlorophenol	ND(1.9)	NA	NA	ND(2.0) [ND(2.0)]
Phenacetin	ND(0.75)	NA	NA	ND(0.78) [ND(0.78)]
Phenanthrene	0.44	NA	NA	27 [27]
Phenol	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Pronamide	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Pyrene	1.5	NA	NA	34 [34]
Pyridine	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Safrole	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Thionazin	ND(0.37)	NA	NA	ND(0.39) [ND(0.39)]
Furans				
2,3,7,8-TCDF	0.0000012 Y	NA	NA	0.0000020 Y [0.0000092 Y]
TCDFs (total)	0.0000075 I	NA	NA	0.000059 I [0.00016 I]
1,2,3,7,8-PeCDF	0.0000025	NA	NA	0.0000041 [0.000010]
2,3,4,7,8-PeCDF	0.0000054	NA	NA	0.000011 [0.000026]
PeCDFs (total)	0.000022 I	NA	NA	0.000077 I [0.00030 I]
1,2,3,4,7,8-HxCDF	0.0000031	NA	NA	ND(0.0000051) X [0.000012]
1,2,3,6,7,8-HxCDF	0.0000031	NA	NA	0.000010 [0.000023 I]
1,2,3,7,8,9-HxCDF	0.0000021	NA	NA	0.0000045 [0.0000098]
2,3,4,6,7,8-HxCDF	0.0000046	NA	NA	0.0000090 [0.000018]
HxCDFs (total)	0.000047 I	NA	NA	0.000084 I [0.00023 I]
1,2,3,4,6,7,8-HpCDF	0.0000062	NA	NA	0.000013 [0.000035]
1,2,3,4,7,8,9-HpCDF	0.0000025	NA	NA	0.0000063 [0.0000096]
HpCDFs (total)	0.000013	NA	NA	0.000032 [0.000049]
OCDF	0.0000066	NA	NA	0.000018 [ND(0.000054) X]

ATTACHMENT B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	RAA11-V11.5	RAA11-V11.5	RAA11-V11.5	RAA11-V11.5
Sample Depth(Feet):	3-6	4-6	10-12	10-15
Parameter Date Collected:	03/15/04	03/15/04	03/15/04	03/15/04
Dioxins				
2,3,7,8-TCDD	ND(0.00000010)	NA	NA	ND(0.00000047) [ND(0.00000034)]
TCDDs (total)	ND(0.00000010)	NA	NA	ND(0.00000047) [ND(0.00000034)]
1,2,3,7,8-PeCDD	ND(0.00000028)	NA	NA	ND(0.0000012) [ND(0.0000023)]
PeCDDs (total)	ND(0.00000028)	NA	NA	ND(0.0000012) [ND(0.0000023)]
1,2,3,4,7,8-HxCDD	0.0000022	NA	NA	0.0000048 [ND(0.00000075)]
1,2,3,6,7,8-HxCDD	0.0000019	NA	NA	0.0000041 [ND(0.00000067)]
1,2,3,7,8,9-HxCDD	0.0000022	NA	NA	0.0000060 [ND(0.00000069)]
HxCDDs (total)	0.0000058	NA	NA	0.000016 [ND(0.00000075)]
1,2,3,4,6,7,8-HpCDD	0.0000046	NA	NA	0.000014 [0.000044]
HpCDDs (total)	0.0000072	NA	NA	0.000024 [0.000085]
OCDD	0.000014	NA	NA	0.000079 [0.00030]
Total TEQs (WHO TEFs)	0.0000052	NA	NA	0.000011 [0.000023]
Inorganics				
Antimony	1.80 B	NA	NA	1.20 B [0.870 B]
Arsenic	4.80	NA	NA	4.40 [5.30]
Barium	22.0	NA	NA	46.0 [50.0]
Beryllium	0.260 B	NA	NA	0.180 B [0.170 B]
Cadmium	0.510	NA	NA	0.530 [0.660]
Chromium	5.30	NA	NA	5.40 [6.10]
Cobalt	6.50	NA	NA	4.90 B [6.60]
Copper	13.0	NA	NA	17.0 [22.0]
Cyanide	ND(0.560)	NA	NA	0.0770 B [0.140 B]
Lead	15.0	NA	NA	110 [160]
Mercury	ND(0.110)	NA	NA	0.110 B [0.110 B]
Nickel	10.0	NA	NA	8.40 [10.0]
Selenium	ND(1.00)	NA	NA	ND(1.00) [ND(1.00)]
Silver	0.150 B	NA	NA	0.180 B [0.200 B]
Sulfide	8.90	NA	NA	100 [83.0]
Thallium	ND(1.10)	NA	NA	ND(1.20) [ND(1.20)]
Tin	2.90 B	NA	NA	5.00 B [3.90 B]
Vanadium	4.60 B	NA	NA	5.00 B [5.30]
Zinc	82.0	NA	NA	81.0 [84.0]

Notes:
1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
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. NA - Not Analyzed.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.
7. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)
- I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
- J - Indicates that the associated numerical value is an estimated concentration.
- X - Estimated maximum possible concentration.
- Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

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

Attachment C

Soil Sampling Data Validation Report for Supplemental Samples

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engineers, scientists, economists

ATTACHMENT C

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS A AND C SUPPLEMENTAL PRE-DESIGN INVESTIGATION

SOIL SAMPLING DATA VALIDATION REPORT

1.0 General

This attachment summarizes the Tier I and Tier II data reviews performed for soil samples collected during supplemental pre-design investigation activities conducted in support of Removal Design/Removal Action (RD/RA) at the Oxbows A & C Area, located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3), by SGS Environmental Services, Inc. of Charleston, West Virginia. Data validation was performed for 64 polychlorinated biphenyl (PCB) samples, 12 volatile organic compound (VOC) samples, 9 semi-volatile organic compound (SVOC) samples, 9 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 9 metals samples and 9 cyanide/sulfide samples.

2.0 Data Evaluation Procedures

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

- *Field Sampling Plan/Quality Assurance Project Plan, 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 Inorganics Analyses,* USEPA Region I (June 13, 1988) (Modified February 1989);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (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
- *The Analysis of Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS),* USEPA Method 8290.

A tabulated summary of the Tier I and Tier II data evaluations is presented in Table C-1. Each sample that was subjected to evaluation is listed in Table C-1 to document that the data review was performed, as well as present the highest level of data validation (Tier I or Tier II) that was performed. 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 an estimated concentration 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 C-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 C-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 in the following table.

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

Parameter	Tier I Only			Tier I &Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
Inorganics	0	0	0	6	1	2	9
PCBs	23	1	1	32	3	4	64
VOCs	0	0	0	6	1	5	12
SVOCs	0	0	0	6	1	2	9
PCDDs/PCDFs	2	0	1	4	1	1	9
Cyanide/Sulfide	3	0	0	6	0	0	9
Total	**28**	**1**	**2**	**60**	**7**	**14**	**112**

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 72% 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 each analytical method.

4.0 Data Review

Initial calibration criterion for organic analyses requires that the average Relative Response Factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was exceeded. The compounds that exceeded initial calibration criterion and the number of samples qualified are presented below.

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	12	J
	2-Butanone	2	J
	Acetone	2	J
	Acetonitrile	10	J
	Acrolein	12	J
SVOCs	4-Nitrophenol	9	J
	4-Nitroquinoline-1-oxide	9	J

Continuing calibration criterion for VOCs and SVOCs requires that the continuing calibration RRF have a value greater than 0.05. Sample data for detected and non-detected compounds with RRF values greater than 0.005, were qualified as estimated (J). The compounds that exceeded continuing calibration criterion and the number of samples qualified due to those exceedences are presented below.

Compounds Qualified Due to Continuing Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	5	J
	Acetone	2	J
	Acetonitrile	5	J
	Acrolein	5	J
	Isobutanol	5	J
	Propionitrile	5	J
SVOCs	4-Nitroquinoline-1-oxide	3	J
	Aramite	2	J

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

Initial calibration criterion for SVOCs requires that the percent relative standard deviation (%RSD) must be less than or equal to 30%. Sample data for detected and non-detected compounds with %RSD values greater than 30% were qualified as estimated (J). The compounds that exceeded initial calibration criterion and the number of samples qualified due to those exceeded are presented below.

Compounds Qualified Due to Initial Calibration %RSD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	4-Nitrophenol	9	J

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25%. Sample data for detected and non-detected compounds with %D values that exceeded the continuing calibration criterion were qualified as estimated (J). A summary of the compounds that exceeded continuing calibration criterion and the number of samples qualified due to those deviations are presented below.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,1,1-Trichloroethane	1	J
	1,1,2,2-Tetrachloroethane	3	J
	1,2-Dibromo-3-chloropropane	9	J
	1,4-Dioxane	1	J
	2-Hexanone	2	J
	Acetonitrile	2	J
	Acrylonitrile	1	J
	Bromomethane	7	J
	Carbon Tetrachloride	3	J
	Chloromethane	1	J
	Dichlorodifluoromethane	3	J
	Isobutanol	1	J
	Tetrachloroethene	3	J
	trans-1,3-Dichloropropene	1	J
SVOCs	1,3,5-Trinitrobenzene	7	J
	2-Nitroaniline	6	J
	3,3'-Dichlorobenzidine	2	J
	3,3'-Dimethylbenzidine	6	J
	3-Methylcholanthrene	2	J
	3-Nitroaniline	6	J

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs (cont'd)	4-Nitroaniline	6	J
	4-Phenylenediamine	6	J
	Aramite	2	J
	Benzidine	9	J
	Benzyl Alcohol	6	J
	Hexachlorophene	6	J
	Methyl Methanesulfonate	6	J
	o-Toluidine	2	J
	p-Dimethylaminoazobenzene	2	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80 and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries exceeded the 80 to 120% control limits, the affected samples with detected results at or near the PQL concentration (less than three times the PQL) were qualified as estimated (J). The analytes that exceeded CRDL criteria and the number of samples qualified due to those deviations are presented below.

Analytes Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Lead	1	J
	Selenium	7	J

Field, laboratory, and method blanks were analyzed to evaluate field sampling equipment or laboratory background contamination which may have contributed to the reported sample results. When detected analytes were identified in a blank sample, blank action levels were calculated at five times the blank to evaluate the significance of the blank concentration. The analyte results that were detected below the blank action level were qualified with a "U". The analytes that exceeded blank action levels and the number of samples qualified due to those exceedences are presented below.

Analytes Qualified Due to Blank Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Cadmium	1	U
	Silver	1	U
	Tin	7	U

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction or purging efficiency. As specified in the FSP/QAPP, at least one of the PCB surrogate compounds must have a recovery between laboratory specified control limits. Also, all of the surrogate recoveries must be greater than 10 percent. Sample results were qualified as estimated (J) for all compounds when surrogate recovery criteria were exceeded and were greater than 10 percent. Non-detected sample results were qualified as rejected (R) for all compounds when surrogate recoveries were less than 10 percent. A summary of the compounds affected by surrogate recovery exceedences and the samples qualified due to those deviations are presented below.

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1016	1	R
	Aroclor-1221	1	R
	Aroclor-1232	1	R
	Aroclor-1242	1	R
	Aroclor-1248	1	R
	Aroclor-1254	1	J
	Aroclor-1260	1	J
	Total PCBs	1	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% for soil sample values greater than five times the PQL. 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	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1260	2	J
	Total PCBs	2	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
Inorganics	100	None
Cyanide and Sulfide	100	None
VOCs	100	None
SVOCs	100	None
PCBs	99.1	A total of 4 sample results were rejected due to surrogate recovery deviations.
PCDDs/PCDFs	100	None

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

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included laboratory duplicates, field duplicates, MS/MSD samples and ICP serial dilution samples. For this analytical program, 0.14% of the data required qualification for field duplicate deviations. None of the data required qualification for laboratory duplicates, MS/MSD RPD samples or ICP serial dilution samples deviations.

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, Laboratory Control Standards (LCSs), MS/MSD samples, CRDL samples and surrogate compound recoveries. For this analytical program, 8.1% of the data required qualification for calibration deviations and 0.29% of the data required qualification for surrogate compound standard recovery deviations and 0.29% of the data required qualification for CRDL deviations. None of the data required qualification for internal standards deviations, LCSs deviations or MS/MSD recovery deviations.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in 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, none of the data required qualification for holding time analysis 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-846[1] analytical methods

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

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 of this analytical data set ranged from 99.1 percent to 100 percent for individual analytical parameters and had an overall usability of 99.8 percent, which is greater than the minimum required usability of 90 percent as specified in the FSP/QAPP.

The rejected sample data for these investigations include sample analyses results for 4 non-detect PCBs for sample location RAA11-G29 (0 to 1 feet) due to low surrogate standard recoveries. Aroclor 1254, 1260 and Total PCB samples results have been qualified as estimated (J).

TABLE C-1
FORMER OXBOW AREAS A AND C SUPPLEMENTAL PRE-DESIGN INVESTIGATIOI

ANALYTICAL DATA VALIDATION SUMMARY
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											
3L0P442	RAA11-DUP1 (0 - 1)	12/18/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	146.2%	<50%	0.084 J	RAA11-V1
						Total PCBs	Field Duplicate RPD (Soil)	146.2%	<50%	0.084 J	
3L0P442	RAA11-S13S (0 - 1)	12/18/03	Soil	Tier II	No						
3L0P442	RAA11-S13S (1 - 3)	12/18/03	Soil	Tier II	No						
3L0P442	RAA11-S13S (10 - 15)	12/18/03	Soil	Tier II	No						
3L0P442	RAA11-S13S (3 - 6)	12/18/03	Soil	Tier II	No						
3L0P442	RAA11-S13S (6 - 10)	12/18/03	Soil	Tier II	No						
3L0P442	RAA11-T1 (0 - 1)	12/18/03	Soil	Tier II	No						
3L0P442	RAA11-U99 (0 - 1)	12/18/03	Soil	Tier II	No						
3L0P442	RAA11-V1 (0 - 1)	12/18/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	146.2%	<50%	0.54 J	
						Total PCBs	Field Duplicate RPD (Soil)	146.2%	<50%	0.54 J	
3L0P442	RAA11-V99 (0 - 1)	12/18/03	Soil	Tier II	No						
3L0P442	RB-121803-1 (0 - 0)	12/18/03	Water	Tier II	No						
3L0P502	RAA11-DUP2 (6 - 10)	12/22/03	Soil	Tier I	No						RAA11-S1
3L0P502	RAA11-S1 (0 - 1)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-S1 (1 - 3)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-S1 (10 - 15)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-S1 (3 - 6)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-S1 (6 - 10)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-U1 (0 - 1)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-U1 (1 - 3)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-U1 (10 - 15)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-U1 (3 - 6)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-U1 (6 - 10)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-W1 (1 - 3)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-W1 (10 - 15)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-W1 (3 - 6)	12/22/03	Soil	Tier I	No						
3L0P502	RAA11-W1 (6 - 10)	12/22/03	Soil	Tier I	No						
3L0P502	RB122203-1 (0 - 0)	12/22/03	Water	Tier I	No						
3L0P524	RAA11-I13N (10 - 15)	12/23/03	Soil	Tier II	No						
3L0P524	RAA11-I13N (6 - 10)	12/23/03	Soil	Tier II	No						
3L0P524	RB-122303-1 (0 - 0)	12/23/03	Water	Tier II	No						
3L0P588	RAA11-I26 (0 - 1)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-M21A (1 - 3)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-M21A (3 - 6)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-M21A (6 - 10)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-S15S (0 - 1)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-S15S (1 - 3)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-S15S (10 - 15)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-S15S (3 - 6)	12/30/03	Soil	Tier I	No						
3L0P588	RAA11-S15S (6 - 10)	12/30/03	Soil	Tier I	No						
4A0P412	RAA11-E15 (10 - 15)	1/22/04	Soil	Tier II	No						
4A0P412	RAA11-I25A (1 - 3)	1/22/04	Soil	Tier II	No						
4A0P412	RAA11-I25A (10 - 15)	1/22/04	Soil	Tier II	No						
4A0P412	RAA11-I25A (3 - 6)	1/22/04	Soil	Tier II	No						
4A0P412	RAA11-I25A (6 - 10)	1/22/04	Soil	Tier II	No						
4A0P412	RB-012204-1 (0 - 0)	1/22/04	Water	Tier II	No						
4B0P160	RAA11-DUP-3 (6 - 10)	2/6/04	Soil	Tier II	No						RAA11-I27
4B0P160	RAA11-G29 (0 - 1)	2/6/04	Soil	Tier II	Yes	Aroclor-1016	Surrogate Recovery	8.3%	27% to 132%	R	
						Aroclor-1221	Surrogate Recovery	8.3%	27% to 132%	R	
						Aroclor-1232	Surrogate Recovery	8.3%	27% to 132%	R	
						Aroclor-1242	Surrogate Recovery	8.3%	27% to 132%	R	
						Aroclor-1248	Surrogate Recovery	8.3%	27% to 132%	R	
						Aroclor-1254	Surrogate Recovery	8.3%	27% to 132%	0.062 J	
						Aroclor-1260	Surrogate Recovery	8.3%	27% to 132%	0.039 J	
						Total PCBs	Surrogate Recovery	8.3%	27% to 132%	0.101 J	
4B0P160	RAA11-G29 (1 - 3)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-G29 (10 - 15)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-G29 (3 - 6)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-G29 (6 - 10)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-H28 (0 - 1)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-I27 (0 - 1)	2/6/04	Soil	Tier II	No						

TABLE C-1
FORMER OXBOW AREAS A AND C SUPPLEMENTAL PRE-DESIGN INVESTIGATIOI

ANALYTICAL DATA VALIDATION SUMMARY
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)											
4B0P160	RAA11-I27 (1 - 3)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-I27 (10 - 15)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-I27 (3 - 6)	2/6/04	Soil	Tier II	No						
4B0P160	RAA11-I27 (6 - 10)	2/6/04	Soil	Tier II	No						
4C0P394	RAA11-DUP-4 (10 - 15)	3/15/04	Soil	Tier II	No						RAA11-V11.5
4C0P394	RAA11-V11.5 (0 - 1)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (1 - 3)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (10 - 15)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (3 - 6)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (6 - 10)	3/15/04	Soil	Tier II	No						
4C0P394	RB-031504-1 (0 - 0)	3/15/04	Water	Tier II	No						
Metals											
3L0P524	RAA11-I13N (10 - 15)	12/23/03	Soil	Tier II	Yes	Cadmium	Method Blank	-	-	ND(0.42)	
						Selenium	CRDL Standard %R	133.6%	80% to 120%	ND(1.00) J	
						Silver	Method Blank	-	-	ND(1.0)	
						Tin	Method Blank	-	-	ND(10)	
3L0P524	RB-122303-1 (0 - 0)	12/23/03	Water	Tier II	Yes	Lead	CRDL Standard %R	144.2%	80% to 120%	ND(0.00300) J	
						Selenium	CRDL Standard %R	133.6%	80% to 120%	ND(0.00500) J	
4A0P412	RAA11-E15 (10 - 15)	1/22/04	Soil	Tier II	Yes	Tin	Method Blank	-	-	ND(10)	
4C0P394	RAA11-DUP-4 (10 - 15)	3/15/04	Soil	Tier II	Yes	Selenium	CRDL Standard %R	62.8%	80% to 120%	ND(1.00) J	RAA11-V11.5
						Tin	Method Blank	-	-	ND(10)	
4C0P394	RAA11-V11.5 (0 - 1)	3/15/04	Soil	Tier II	Yes	Selenium	CRDL Standard %R	62.8%	80% to 120%	ND(1.00) J	
						Tin	Method Blank	-	-	ND(10)	
4C0P394	RAA11-V11.5 (1 - 3)	3/15/04	Soil	Tier II	Yes	Selenium	CRDL Standard %R	62.8%	80% to 120%	ND(1.00) J	
						Tin	Method Blank	-	-	ND(10)	
4C0P394	RAA11-V11.5 (10 - 15)	3/15/04	Soil	Tier II	Yes	Selenium	CRDL Standard %R	62.8%	80% to 120%	ND(1.00) J	
						Tin	Method Blank	-	-	ND(10)	
4C0P394	RAA11-V11.5 (3 - 6)	3/15/04	Soil	Tier II	Yes	Selenium	CRDL Standard %R	62.8%	80% to 120%	ND(1.00) J	
						Tin	Method Blank	-	-	ND(10)	
4C0P394	RB-031504-1 (0 - 0)	3/15/04	Water	Tier II	No						
VOCs											
3L0P524	RAA11-I13N (10 - 12)	12/23/03	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						1,4-Dioxane	CCAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	CCAL %D	48.0%	<25%	ND(0.11) J	
						Acetonitrile	CCAL RRF	0.042	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.003	>0.05	ND(0.11) J	
						Acrolein	CCAL RRF	0.003	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.012	>0.05	ND(0.11) J	
						Isobutanol	CCAL RRF	0.013	>0.05	ND(0.11) J	
						Propionitrile	ICAL RRF	0.044	>0.05	ND(0.011) J	
						Propionitrile	CCAL RRF	0.044	>0.05	ND(0.011) J	
3L0P524	RB-122303-1 (0 - 0)	12/23/03	Water	Tier II	Yes	1,1,2,2-Tetrachloroethane	CCAL %D	48.8%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						Acetone	CCAL RRF	0.046	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.038	>0.05	ND(0.10) J	
						Acetonitrile	CCAL RRF	0.045	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Acrolein	CCAL RRF	0.001	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	32.0%	<25%	ND(0.0020) J	
						Carbon Tetrachloride	CCAL %D	26.8%	<25%	ND(0.0050) J	
						Isobutanol	CCAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	CCAL RRF	0.009	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	38.4%	<25%	ND(0.0020) J	

TABLE C-1
FORMER OXBOW AREAS A AND C SUPPLEMENTAL PRE-DESIGN INVESTIGATIOI

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
3L0P524	TRIP BLANK	12/23/03	Water	Tier II	Yes	1,1,2,2-Tetrachloroethane	CCAL %D	48.8%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						Acetone	CCAL RRF	0.046	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.038	>0.05	ND(0.10) J	
						Acetonitrile	CCAL RRF	0.045	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Acrolein	CCAL RRF	0.001	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	32.0%	<25%	ND(0.0020) J	
						Carbon Tetrachloride	CCAL %D	26.8%	<25%	ND(0.0050) J	
						Isobutanol	CCAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	CCAL RRF	0.009	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	38.4%	<25%	ND(0.0020) J	
4A0P412	RAA11-E15 (10 - 12)	1/22/04	Soil	Tier II	Yes	1,1,1-Trichloroethane	CCAL %D	32.0%	<25%	ND(0.0068) J	
						1,1,2,2-Tetrachloroethane	CCAL %D	40.0%	<25%	ND(0.0068) J	
						1,2-Dibromo-3-chloropropane	CCAL %D	26.4%	<25%	ND(0.0068) J	
						1,4-Dioxane	CCAL RRF	0.009	>0.05	ND(0.14) J	
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.14) J	
						Acetonitrile	CCAL %D	62.8%	<25%	ND(0.14) J	
						Acetonitrile	CCAL RRF	0.030	>0.05	ND(0.14) J	
						Acrolein	CCAL RRF	0.004	>0.05	ND(0.14) J	
						Acrolein	ICAL RRF	0.003	>0.05	ND(0.14) J	
						Acrylonitrile	CCAL %D	32.8%	<25%	ND(0.0068) J	
						Carbon Tetrachloride	CCAL %D	26.8%	<25%	ND(0.0068) J	
						Chloromethane	CCAL %D	62.4%	<25%	ND(0.0068) J	
						Isobutanol	CCAL RRF	0.009	>0.05	ND(0.14) J	
						Isobutanol	ICAL RRF	0.012	>0.05	ND(0.14) J	
						Propionitrile	CCAL RRF	0.033	>0.05	ND(0.014) J	
						Propionitrile	ICAL RRF	0.044	>0.05	ND(0.014) J	
						Tetrachloroethene	CCAL %D	38.0%	<25%	ND(0.0068) J	
						Trichlorofluoromethane	CCAL %D	26.0%	<25%	ND(0.0068) J	
4A0P412	TRIP BLANK-1	1/22/04	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	89.6%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						1,4-Dioxane	CCAL %D	36.4%	<25%	ND(0.20) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						Acetonitrile	ICAL RRF	0.038	>0.05	ND(0.10) J	
						Acetonitrile	CCAL RRF	0.035	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Acrolein	CCAL RRF	0.001	>0.05	ND(0.10) J	
						Dichlorodifluoromethane	CCAL %D	40.0%	<25%	ND(0.0050) J	
						Isobutanol	CCAL %D	51.2%	<25%	ND(0.10) J	
						Isobutanol	CCAL RRF	0.015	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	CCAL RRF	0.011	>0.05	ND(0.010) J	
						trans-1,3-Dichloropropene	CCAL %D	31.2%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	28.0%	<25%	ND(0.0050) J	
4C0P394	RAA11-DUP-5 (10 - 12)	03/15/04	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	29.0%	<25%	ND(0.0057) J	RAA11-V11.5
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Bromomethane	CCAL %D	27.2%	<25%	ND(0.0057) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.11) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.011) J	
4C0P394	RAA11-V11.5 (0 - 1)	03/15/04	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	29.0%	<25%	ND(0.0056) J	
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Bromomethane	CCAL %D	27.2%	<25%	ND(0.0056) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.11) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.011) J	

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ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
4C0P394	RAA11-V11.5 (1 - 3)	03/15/04	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	29.0%	<25%	ND(0.0057) J	
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Bromomethane	CCAL %D	27.2%	<25%	ND(0.0057) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.11) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.011) J	
4C0P394	RAA11-V11.5 (10 - 12)	03/15/04	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	29.0%	<25%	ND(0.0056) J	
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Bromomethane	CCAL %D	27.2%	<25%	ND(0.0056) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.11) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.011) J	
4C0P394	RAA11-V11.5 (4 - 6)	03/15/04	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	29.0%	<25%	ND(0.0057) J	
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Bromomethane	CCAL %D	27.2%	<25%	ND(0.0057) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.11) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.011) J	
4C0P394	RB-031504-1 (0 - 0)	03/15/04	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	29.2%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						2-Hexanone	CCAL %D	38.4%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.037	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Dichlorodifluoromethane	CCAL %D	36.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.018	>0.05	ND(0.010) J	
4C0P394	TRIP BLANK	03/15/04	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	29.2%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						2-Hexanone	CCAL %D	38.4%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.037	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Dichlorodifluoromethane	CCAL %D	36.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.018	>0.05	ND(0.010) J	
SVOCs											
3L0P524	RAA11-I13N (10 - 15)	12/23/03	Soil	Tier II	Yes	3,3'-Dichlorobenzidine	CCAL %D	26.1%	<25%	ND(0.79) J	
						3-Methylcholanthrene	CCAL %D	30.2%	<25%	ND(0.79) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.0) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.79) J	
						4-Nitroquinoline-1-oxide	CCAL RRF	0.031	>0.05	ND(0.79) J	
						Aramite	CCAL %D	33.4%	<25%	ND(0.79) J	
						Aramite	CCAL RRF	0.037	>0.05	ND(0.79) J	
						Benzidine	CCAL %D	28.0%	<25%	ND(0.79) J	
						o-Toluidine	CCAL %D	26.9%	<25%	ND(0.40) J	
						p-Dimethylaminoazobenzene	CCAL %D	31.2%	<25%	ND(0.79) J	

TABLE C-1
FORMER OXBOW AREAS A AND C SUPPLEMENTAL PRE-DESIGN INVESTIGATIOI

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
3L0P524	RB-122303-1 (0 - 0)	12/23/03	Water	Tier II	Yes	3,3'-Dichlorobenzidine	CCAL %D	26.1%	<25%	ND(0.020) J	
						3-Methylcholanthrene	CCAL %D	30.2%	<25%	ND(0.010) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL RRF	0.031	>0.05	ND(0.010) J	
						Aramite	CCAL %D	33.4%	<25%	ND(0.010) J	
						Aramite	CCAL RRF	0.037	>0.05	ND(0.010) J	
						Benzidine	CCAL %D	28.0%	<25%	ND(0.020) J	
						o-Toluidine	CCAL %D	26.9%	<25%	ND(0.010) J	
						p-Dimethylaminoazobenzene	CCAL %D	31.2%	<25%	ND(0.010) J	
4A0P412	RAA11-E15 (10 - 15)	1/22/04	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	60.5%	<25%	ND(0.46) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.3) J	
4A0P412	RAA11-E15 (10 - 15)	1/22/04	Soil	Tier II	Yes	4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.92) J	
						4-Nitroquinoline-1-oxide	CCAL RRF	0.034	>0.05	ND(0.92) J	
						Benzidine	CCAL %D	30.9%	<25%	ND(0.92) J	
4C0P394	RAA11-DUP-4 (10 - 15)	3/15/04	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	31.1%	<25%	ND(0.39) J	RAA11-V11.5
						2-Nitroaniline	CCAL %D	41.9%	<25%	ND(2.0) J	
						3,3'-Dimethylbenzidine	CCAL %D	49.5%	<25%	ND(0.39) J	
						3-Nitroaniline	CCAL %D	47.9%	<25%	ND(2.0) J	
						4-Nitroaniline	CCAL %D	53.0%	<25%	ND(2.0) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.0) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.78) J	
						4-Phenylenediamine	CCAL %D	31.1%	<25%	ND(0.78) J	
						Benzidine	CCAL %D	37.9%	<25%	ND(0.78) J	
						Benzyl Alcohol	CCAL %D	31.0%	<25%	ND(0.78) J	
						Hexachlorophene	CCAL %D	32.5%	<25%	ND(0.78) J	
						Methyl Methanesulfonate	CCAL %D	27.3%	<25%	ND(0.39) J	
4C0P394	RAA11-V11.5 (0 - 1)	3/15/04	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	31.1%	<25%	ND(0.37) J	
						2-Nitroaniline	CCAL %D	41.9%	<25%	ND(1.9) J	
						3,3'-Dimethylbenzidine	CCAL %D	49.5%	<25%	ND(0.37) J	
						3-Nitroaniline	CCAL %D	47.9%	<25%	ND(1.9) J	
						4-Nitroaniline	CCAL %D	53.0%	<25%	ND(1.9) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(1.9) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.75) J	
						4-Phenylenediamine	CCAL %D	31.1%	<25%	ND(0.75) J	
						Benzidine	CCAL %D	37.9%	<25%	ND(0.75) J	
						Benzyl Alcohol	CCAL %D	31.0%	<25%	ND(0.75) J	
						Hexachlorophene	CCAL %D	32.5%	<25%	ND(0.75) J	
						Methyl Methanesulfonate	CCAL %D	27.3%	<25%	ND(0.37) J	
4C0P394	RAA11-V11.5 (1 - 3)	3/15/04	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	31.1%	<25%	ND(0.38) J	
						2-Nitroaniline	CCAL %D	41.9%	<25%	ND(1.9) J	
						3,3'-Dimethylbenzidine	CCAL %D	49.5%	<25%	ND(0.38) J	
						3-Nitroaniline	CCAL %D	47.9%	<25%	ND(1.9) J	
						4-Nitroaniline	CCAL %D	53.0%	<25%	ND(1.9) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(1.9) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.76) J	
						4-Phenylenediamine	CCAL %D	31.1%	<25%	ND(0.76) J	
						Benzidine	CCAL %D	37.9%	<25%	ND(0.76) J	
						Benzyl Alcohol	CCAL %D	31.0%	<25%	ND(0.76) J	
						Hexachlorophene	CCAL %D	32.5%	<25%	ND(0.76) J	
						Methyl Methanesulfonate	CCAL %D	27.3%	<25%	ND(0.38) J	
4C0P394	RAA11-V11.5 (10 - 15)	3/15/04	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	31.1%	<25%	ND(0.37) J	
						2-Nitroaniline	CCAL %D	41.9%	<25%	ND(1.9) J	
						3,3'-Dimethylbenzidine	CCAL %D	49.5%	<25%	ND(0.37) J	
						3-Nitroaniline	CCAL %D	47.9%	<25%	ND(1.9) J	
						4-Nitroaniline	CCAL %D	53.0%	<25%	ND(1.9) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(1.9) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.75) J	
						4-Phenylenediamine	CCAL %D	31.1%	<25%	ND(0.75) J	
						Benzidine	CCAL %D	37.9%	<25%	ND(0.75) J	
						Benzyl Alcohol	CCAL %D	31.0%	<25%	ND(0.75) J	
						Hexachlorophene	CCAL %D	32.5%	<25%	ND(0.75) J	
						Methyl Methanesulfonate	CCAL %D	27.3%	<25%	ND(0.37) J	

TABLE C-1
FORMER OXBOW AREAS A AND C SUPPLEMENTAL PRE-DESIGN INVESTIGATIOI

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
4C0P394	RAA11-V11.5 (3 - 6)	3/15/04	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	31.1%	<25%	ND(0.39) J	
						2-Nitroaniline	CCAL %D	41.9%	<25%	ND(2.0) J	
						3,3'-Dimethylbenzidine	CCAL %D	49.5%	<25%	ND(0.39) J	
						3-Nitroaniline	CCAL %D	47.9%	<25%	ND(2.0) J	
						4-Nitroaniline	CCAL %D	53.0%	<25%	ND(2.0) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.0) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.78) J	
						4-Phenylenediamine	CCAL %D	31.1%	<25%	ND(0.78) J	
						Benzidine	CCAL %D	37.9%	<25%	ND(0.78) J	
						Benzyl Alcohol	CCAL %D	31.0%	<25%	ND(0.78) J	
						Hexachlorophene	CCAL %D	32.5%	<25%	ND(0.78) J	
						Methyl Methanesulfonate	CCAL %D	27.3%	<25%	ND(0.39) J	
4C0P394	RB-031504-1 (0 - 0)	3/15/04	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	31.1%	<25%	ND(0.010) J	
						2-Nitroaniline	CCAL %D	41.9%	<25%	ND(0.050) J	
						3,3'-Dimethylbenzidine	CCAL %D	49.5%	<25%	ND(0.010) J	
						3-Nitroaniline	CCAL %D	47.9%	<25%	ND(0.050) J	
						4-Nitroaniline	CCAL %D	53.0%	<25%	ND(0.050) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						4-Phenylenediamine	CCAL %D	31.1%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	37.9%	<25%	ND(0.020) J	
						Benzyl Alcohol	CCAL %D	31.0%	<25%	ND(0.020) J	
						Hexachlorophene	CCAL %D	32.5%	<25%	ND(0.020) J	
						Methyl Methanesulfonate	CCAL %D	27.3%	<25%	ND(0.010) J	
PCDDs/PCDFs											
3L0P524	RAA11-I13N (10 - 15)	12/23/03	Soil	Tier I	No						
3L0P524	RB-122303-1 (0 - 0)	12/23/03	Water	Tier I	No						
4A0P412	RAA11-E15 (10 - 15)	1/22/04	Soil	Tier I	No						
4C0P394	RAA11-DUP-4 (10 - 15)	3/15/04	Soil	Tier II	No						RAA11-V11.5
4C0P394	RAA11-V11.5 (0 - 1)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (1 - 3)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (10 - 15)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (3 - 6)	3/15/04	Soil	Tier II	No						
4C0P394	RB-031504-1 (0 - 0)	3/15/04	Water	Tier II	No						
Cyanides/Sulfides											
3L0P524	RAA11-I13N (10 - 15)	12/23/03	Soil	Tier I	No						
3L0P524	RB-122303-1 (0 - 0)	12/23/03	Water	Tier I	No						
4A0P412	RAA11-E15 (10 - 15)	1/22/04	Soil	Tier I	No						
4C0P394	RAA11-DUP-4 (10 - 15)	3/15/04	Soil	Tier II	No						RAA11-V11.5
4C0P394	RAA11-V11.5 (0 - 1)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (1 - 3)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (10 - 15)	3/15/04	Soil	Tier II	No						
4C0P394	RAA11-V11.5 (3 - 6)	3/15/04	Soil	Tier II	No						
4C0P394	RB-031504-1 (0 - 0)	3/15/04	Water	Tier II	No						

Attachment D

Soil Sampling Data Validation Report for Pre-Design Investigation PCB Samples

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

ATTACHMENT D

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

SOIL SAMPLING DATA VALIDATION REPORT

1.0 General

This attachment summarizes the Tier I and Tier II data reviews performed for soil samples collected during pre-design investigation (PDI) activities conducted in support of Removal Design/Removal Action (RD/RA) at Former Oxbow Areas A and C, located in Pittsfield, Massachusetts. The samples were analyzed for polychlorinated biphenyls (PCBs) by SGS Environmental Services, Inc. of Charleston, West Virginia. Data validation was performed for 537 samples analyzed for PCBs that were collected at this property.

2.0 Data Evaluation Procedures

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

- Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc. [BBL]; (FSP/QAPP; approved November 2, 2002 and resubmitted December 10, 2003);
- *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); and
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 1996).

A tabulated summary of the Tier I and Tier II data evaluations is presented in Table D-1. Each sample that was subjected to evaluation is listed in Table D-1 to document that the data review was performed, as well as present the highest level of data validation (Tier I or Tier II) that was performed. 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 an estimated concentration 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 D-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 D-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, July 31, 1991), 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 in the following table.

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

Parameter	Tier I Only			Tier I &Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCBs	318	17	17	167	9	9	537
Total	**318**	**17**	**17**	**167**	**9**	**9**	**537**

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 34% 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 each analytical method.

4.0 Data Review

Matrix spike/matrix spike duplicate (MS/MSD) sample analysis recoveries for organics must be within the laboratory-generated quality control acceptance limits specified on the MS reporting form. Organic sample results that exceeded laboratory-generated quality control acceptance limits and have MS recoveries greater than 10% were qualified as estimated (J). Sample results that did not meet MS recovery criteria and the number of samples qualified due to those deviations are presented below.

Compounds Qualified Due to MS Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1016	2	J
	Aroclor-1221	2	J
	Aroclor-1232	2	J
	Aroclor-1242	2	J
	Aroclor-1248	2	J
	Aroclor-1254	2	J
	Aroclor-1260	2	J
	Total PCBs	2	J

MS sample analysis recovery criteria for organics require that the RPD between the MS and matrix spike duplicate (MSD) be less than the laboratory-generated QC acceptance limits specified on the MS reporting form. Organic sample results that exceeded laboratory generated QC acceptance limits were qualified as estimated (J). The compounds that exceeded RPD limits and the number of samples qualified due to deviations are presented below.

Compounds Qualified Due to MS RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1254	1	J
	Aroclor-1260	1	J
	Total PCBs	1	J

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction or purging efficiency. As specified in the FSP/QAPP, at least one of the PCB surrogate compounds must have a recovery between laboratory specified control limits. Also, all of the surrogate recoveries must be greater than 10 percent. Sample results were qualified as estimated (J) for all compounds when surrogate recovery criteria were exceeded and were greater than 10 percent. Non-detected sample results were qualified as rejected (R) for all compounds when surrogate recoveries were less than 10 percent. A summary of the compounds affected by surrogate recovery exceedences and the samples qualified due to those deviations are presented below.

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1016	3	R
	Aroclor-1221	3	R
	Aroclor-1232	3	R
	Aroclor-1242	3	R

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs (cont'd)	Aroclor-1248	3	R
	Aroclor-1254	1	R
		2	J
	Aroclor-1260	3	J
	Total PCBs	3	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% for soil sample values greater than five times the PQL. 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	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1254	4	J
	Aroclor-1260	8	J
	Total PCBs	8	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 for 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	99.6	A total of 16 sample results were rejected due to surrogate 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 RPD samples. For this analytical program, 0.47% of the data required qualification field duplicate RPD deviations and 0.07% 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, MS/MSD samples and surrogate compound recoveries. For this analytical program, 0.37% required qualification for MS/MSD recovery deviations and 0.56% of the data required qualification for surrogate compound standard recovery deviations. None of the data required qualification for instrument calibration 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, none of the data required qualification for holding time analysis 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-846[1] 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.

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

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 99.6 percent, which is greater than the minimum required usability of 90 percent as specified in the FSP/QAPP.

The rejected sample data for these investigations include sample analyses results for 16 non-detect PCB sample results for sample locations RAA11-U8 (0 to 1 feet), RAA11-S11 (15 to 18 feet) and RAA11-DUP-10 (10 to 15 feet) due to low surrogate standard recoveries. Detect sample results have been qualified as estimated (J).

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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											
3C0P589	RAA11-D14 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-D15 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-D16 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-D19 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-E20 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-F12 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-F13 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-F14 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-F15 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-F16 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-F17 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-G12 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-G14 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-H12 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-H15 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-J11 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-M10 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-N10 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RAA11-N9 (0 - 1)	3/25/03	Soil	Tier I	No						
3C0P589	RB-032503-1 (0 - 0)	3/25/03	Water	Tier I	No						
3C0P622	RAA11-DUP-1 (3 - 6)	3/26/03	Soil	Tier I	No						RAA11-I11
3C0P622	RAA11-DUP-3 (6 - 10)	3/26/03	Soil	Tier I	No						RAA11-M11
3C0P622	RAA11-H11 (0 - 1)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-I11 (0 - 1)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-I11 (1 - 3)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-I11 (10 - 15)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-I11 (3 - 6)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-I11 (6 - 10)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-K10 (0 - 1)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-K11 (0 - 1)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-K11 (1 - 3)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-K11 (10 - 15)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-K11 (3 - 6)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-K11 (6 - 10)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-L10 (0 - 1)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-M11 (0 - 1)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-M11 (1 - 3)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-M11 (10 - 15)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-M11 (3 - 6)	3/26/03	Soil	Tier I	No						
3C0P622	RAA11-M11 (6 - 10)	3/26/03	Soil	Tier I	No						
3C0P622	RB-032603-1 (0 - 0)	3/26/03	Water	Tier I	No						
3C0P673	RAA11-DUP-4 (3 - 6)	3/28/03	Soil	Tier II	Yes	Aroclor-1254	Field Duplicate RPD (Soil)	106.8%	<50%	2.6 J	RAA11-E15
						Total PCBs	Field Duplicate RPD (Soil)	84.2%	<50%	2.6 J	
3C0P673	RAA11-E13 (0 - 1)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E13 (1 - 3)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E13 (10 - 15)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E13 (3 - 6)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E13 (6 - 10)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E14 (0 - 1)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E15 (0 - 1)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E15 (1 - 3)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-E15 (3 - 6)	3/28/03	Soil	Tier II	Yes	Aroclor-1254	Field Duplicate RPD (Soil)	106.8%	<50%	0.79 J	
						Total PCBs	Field Duplicate RPD (Soil)	84.2%	<50%	1.06 J	
3C0P673	RAA11-E15 (6 - 8)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G13 (0 - 1)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G13 (1 - 3)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G13 (10 - 15)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G13 (3 - 6)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G13 (6 - 10)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G15 (0 - 1)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G15 (1 - 3)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G15 (10 - 15)	3/28/03	Soil	Tier II	No						
3C0P673	RAA11-G15 (3 - 6)	3/28/03	Soil	Tier II	No						

TABLE D-1
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ANALYTICAL DATA VALIDATION SUMMARY
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)											
3C0P673	RAA11-G15 (6 - 10)	3/28/03	Soil	Tier II	No						
3C0P673	RB-032803-1 (0 - 0)	3/28/03	Water	Tier II	No						
3D0P001	RAA11-C17 (10 - 15)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-C17 (3 - 6)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-C17 (6 - 10)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-C18 (0 - 1)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-C19 (0 - 1)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-C19 (10 - 15)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-C19 (3 - 6)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-C19 (6 - 10)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-D17 (0 - 1)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-DUP-5 (0 - 1)	3/31/03	Soil	Tier I	No						RAA11-D17
3D0P001	RAA11-E16 (0 - 1)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-E17 (0 - 1)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-E17 (1 - 3)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-E17 (10 - 15)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-E17 (3 - 6)	3/31/03	Soil	Tier I	No						
3D0P001	RAA11-E17 (6 - 10)	3/31/03	Soil	Tier I	No						
3D0P001	RB-033103-1 (0 - 0)	3/31/03	Water	Tier I	No						
3D0P022	RAA11-C21 (0 - 1)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-C21 (10 - 15)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-C21 (3 - 6)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-C21 (6 - 10)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-D24 (0 - 1)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-DUP-6 (6 - 10)	4/1/03	Soil	Tier II	Yes	Total PCBs	Field Duplicate RPD (Soil)	91.1%	<50%	2.3 J	RAA11-E19
3D0P022	RAA11-E18 (0 - 1)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E18 (1 - 3)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E18 (6 - 10)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E19 (0 - 1)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E19 (1 - 3)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E19 (10 - 15)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E19 (3 - 6)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E19 (6 - 10)	4/1/03	Soil	Tier II	Yes	Total PCBs	Field Duplicate RPD (Soil)	91.1%	<50%	0.86 J	
3D0P022	RAA11-E25 (1 - 3)	4/1/03	Soil	Tier II	No						
3D0P022	RAA11-E25 (3 - 6)	4/1/03	Soil	Tier II	No						
3D0P022	RB-040103-1 (0 - 0)	4/1/03	Water	Tier II	No						
3D0P063	RAA11-B24 (0 - 1)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-B25 (0 - 1)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-C24 (0 - 1)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-C25 (1 - 3)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-C25 (10 - 15)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-C25 (3 - 6)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-C25 (6 - 10)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-E23 (1 - 3)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-E23 (10 - 15)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-E23 (3 - 6)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-E23 (6 - 10)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-E25 (10 - 15)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-E25 (6 - 10)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-E27 (10 - 15)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-F27 (0 - 1)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-G25 (1 - 3)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-G25 (10 - 15)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-G25 (3 - 6)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-G25 (6 - 10)	4/2/03	Soil	Tier I	No						
3D0P063	RAA11-H26 (0 - 1)	4/2/03	Soil	Tier I	No						
3D0P106	RAA11-DUP-7 (3 - 6)	4/3/03	Soil	Tier I	No						RAA11-G27
3D0P106	RAA11-G27 (0 - 1)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-G27 (1 - 3)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-G27 (10 - 15)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-G27 (3 - 6)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-G27 (6 - 10)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-I25 (0 - 1)	4/3/03	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)											
3D0P106	RAA11-I25 (1 - 3)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-I25 (10 - 15)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-I25 (3 - 6)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-I25 (6 - 10)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-K23 (0 - 1)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-K23 (1 - 3)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-K23 (10 - 15)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-K23 (3 - 6)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-K23 (6 - 10)	4/3/03	Soil	Tier I	No						
3D0P106	RAA11-M21 (10 - 15)	4/3/03	Soil	Tier I	No						
3D0P106	RB-040303-1 (0 - 0)	4/3/03	Water	Tier I	No						
3D0P160	RAA11-P10 (0 - 1)	4/4/03	Soil	Tier I	No						
3D0P160	RAA11-P11 (0 - 1)	4/4/03	Soil	Tier I	No						
3D0P160	RAA11-P9 (0 - 1)	4/4/03	Soil	Tier I	No						
3D0P160	RAA11-Q11 (0 - 1)	4/4/03	Soil	Tier I	No						
3D0P160	RAA11-Q11 (1 - 3)	4/4/03	Soil	Tier I	No						
3D0P160	RAA11-Q11 (10 - 15)	4/4/03	Soil	Tier I	No						
3D0P160	RAA11-Q11 (3 - 6)	4/4/03	Soil	Tier I	No						
3D0P160	RAA11-Q11 (6 - 10)	4/4/03	Soil	Tier I	No						
3D0P224	RAA11-DUP-8 (0 - 1)	4/8/03	Soil	Tier I	No						RAA11-H20
3D0P224	RAA11-G21 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G21 (1 - 3)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G21 (10 - 15)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G21 (3 - 6)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G21 (6 - 10)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G22 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G23 (1 - 3)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G23 (10 - 15)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G23 (3 - 6)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-G23 (6 - 10)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-H18 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-H19 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-H20 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-H21 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-H23 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-I22 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-J20 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-J21 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-J24 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-J25 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-K20 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-K24 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-L22 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-L23 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RAA11-M22 (0 - 1)	4/8/03	Soil	Tier I	No						
3D0P224	RB-040703-1 (0 - 0)	4/7/03	Water	Tier I	No						
3D0P265	RAA11-DUP-9 (6 - 10)	4/9/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	88.7%	<50%	7.0 J	RAA11-I21
3D0P265	RAA11-I21 (0 - 1)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-I21 (1 - 3)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-I21 (10 - 15)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-I21 (3 - 6)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-I21 (6 - 10)	4/9/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	88.7%	<50%	2.7 J	
3D0P265	RAA11-I23 (1 - 3)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-I23 (10 - 15)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-I23 (3 - 6)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-I23 (6 - 10)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K19 (0 - 1)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K19 (1 - 3)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K19 (10 - 15)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K19 (3 - 6)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K19 (6 - 10)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K21 (1 - 3)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K21 (10 - 15)	4/9/03	Soil	Tier II	No						

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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)											
3D0P265	RAA11-K21 (3 - 6)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-K21 (6 - 10)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-M19 (0 - 1)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-M19 (1 - 3)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-M19 (10 - 15)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-M19 (3 - 6)	4/9/03	Soil	Tier II	No						
3D0P265	RAA11-M19 (6 - 10)	4/9/03	Soil	Tier II	No						
3D0P265	RB-040903-1 (0 - 0)	4/9/03	Water	Tier II	No						
3D0P294	RAA11-DUP-10 (10 - 15)	4/10/03	Soil	Tier II	Yes	Aroclor-1016	Surrogate Recovery	8.2%	50% to 150%	R	RAA11-I19
						Aroclor-1221	Surrogate Recovery	8.2%	50% to 150%	R	
						Aroclor-1232	Surrogate Recovery	8.2%	50% to 150%	R	
						Aroclor-1242	Surrogate Recovery	8.2%	50% to 150%	R	
						Aroclor-1248	Surrogate Recovery	8.2%	50% to 150%	R	
						Aroclor-1254	Surrogate Recovery	8.2%	50% to 150%	0.61 J	
						Aroclor-1254	Field Duplicate RPD (Soil)	158.7%	<50%	0.61 J	
						Aroclor-1260	Surrogate Recovery	8.2%	50% to 150%	0.41 J	
						Aroclor-1260	Field Duplicate RPD (Soil)	173.6%	<50%	0.41 J	
						Total PCBs	Surrogate Recovery	8.2%	50% to 150%	1.02 J	
						Total PCBs	Field Duplicate RPD (Soil)	166.3%	<50%	1.02 J	
3D0P294	RAA11-I15 (0 - 1)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I15 (1 - 3)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I15 (10 - 15)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I15 (3 - 6)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I15 (6 - 10)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I17 (0 - 1)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I17 (1 - 3)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I17 (10 - 15)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I17 (3 - 6)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I17 (6 - 10)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I19 (0 - 1)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I19 (1 - 3)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I19 (10 - 15)	4/10/03	Soil	Tier II	Yes	Aroclor-1254	Field Duplicate RPD (Soil)	158.7%	<50%	5.3 J	
						Aroclor-1260	Field Duplicate RPD (Soil)	173.6%	<50%	5.8 J	
						Total PCBs	Field Duplicate RPD (Soil)	166.3%	<50%	11.1 J	
3D0P294	RAA11-I19 (3 - 6)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-I19 (6 - 10)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-K17 (0 - 1)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-K17 (1 - 3)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-K17 (10 - 15)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-K17 (3 - 6)	4/10/03	Soil	Tier II	No						
3D0P294	RAA11-K17 (6 - 10)	4/10/03	Soil	Tier II	No						
3D0P294	RB-041003-1 (0 - 0)	4/10/03	Water	Tier II	No						
3D0P350	RAA11-DUP-11 (0 - 1)	4/14/03	Soil	Tier I	No						RAA11-I20
3D0P350	RAA11-H13 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-H14 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-I16 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-I18 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-I20 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-J14 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-J15 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-J17 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-J18 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-J19 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-K14 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-K16 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-K18 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-L13 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-L14 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-L15 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-L16 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-L17 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-L18 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-L19 (0 - 1)	4/14/03	Soil	Tier I	No						

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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)											
3D0P350	RAA11-M12 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-M14 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-M16 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RAA11-M18 (0 - 1)	4/14/03	Soil	Tier I	No						
3D0P350	RB-041403-1 (0 - 0)	4/14/03	Water	Tier I	No						
3D0P370	RAA11-DUP-12 (6 - 10)	4/15/03	Soil	Tier I	No						RAA11-K15
3D0P370	RAA11-DUP-13 (6 - 10)	4/15/03	Soil	Tier I	No						RAA11-K13
3D0P370	RAA11-J16 (0 - 1)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K13 (0 - 1)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K13 (1 - 3)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K13 (10 - 15)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K13 (3 - 6)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K13 (6 - 10)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K15 (0 - 1)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K15 (1 - 3)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K15 (10 - 15)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K15 (3 - 6)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-K15 (6 - 10)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-M13 (0 - 1)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-M13 (1 - 3)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-M13 (10 - 15)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-M13 (3 - 6)	4/15/03	Soil	Tier I	No						
3D0P370	RAA11-M13 (6 - 10)	4/15/03	Soil	Tier I	No						
3D0P370	RB-041503-1 (0 - 0)	4/15/03	Water	Tier I	No						
3D0P370	RB-041503-2 (0 - 0)	4/15/03	Water	Tier I	No						
3D0P419	RAA11-DUP-14 (0 - 1)	4/16/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	55.3%	<50%	3.0 J	RAA11-L11
3D0P419	RAA11-I12 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-I13 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-I13 (1 - 3)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-I13 (3 - 5)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-I14 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J12 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J12-LP (0 - 2)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J12-LP (10 - 12)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J12-LP (2 - 4)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J12-LP (4 - 6)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J12-LP (6 - 8)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J12-LP (8 - 10)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-J13 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-L11 (0 - 1)	4/16/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	55.3%	<50%	1.7 J	
3D0P419	RAA11-L12 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-N11 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RAA11-N12 (0 - 1)	4/16/03	Soil	Tier II	No						
3D0P419	RB-041603-1 (0 - 0)	4/16/03	Water	Tier II	No						
3D0P454	RAA11-DUP-15 (0 - 1)	4/17/03	Soil	Tier I	No						RAA11-O13
3D0P454	RAA11-I13-LP (0 - 2)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-I13-LP (2 - 4)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-I13-LP (4 - 7)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-K12 (0 - 1)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-K12-LP (0 - 2)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-K12-LP (2 - 4)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-K12-LP (4 - 6)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-K12-LP (6 - 8)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-K12-LP (8 - 11)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-M17 (0 - 1)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-M17 (1 - 3)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-M17 (10 - 15)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-M17 (3 - 6)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-M17 (6 - 10)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-O13 (0 - 1)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-O13 (1 - 3)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-O13 (10 - 15)	4/17/03	Soil	Tier I	No						
3D0P454	RAA11-O13 (3 - 6)	4/17/03	Soil	Tier I	No						

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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)											
3D0P454	RAA11-O13 (6 - 10)	4/17/03	Soil	Tier I	No						
3D0P454	RB-041703-1 (0 - 0)	4/17/03	Water	Tier I	No						
3D0P478	RAA11-O11 (0 - 1)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O11 (1 - 3)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O11 (10 - 15)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O11 (3 - 6)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O11 (6 - 10)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O12 (0 - 1)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O9 (0 - 1)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O9 (1 - 3)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O9 (10 - 15)	4/18/03	Soil	Tier I	No						
3D0P478	RAA11-O9 (3 - 6)	4/18/03	Soil	Tier I	No						
3D0P512	RAA11-DUP-17 (0 - 1)	4/21/03	Soil	Tier I	No						RAA11-N13
3D0P512	RAA11-N13 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-N14 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-N15 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-N16 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-N17 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-N18 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-N19 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-O10 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-O14 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-O16 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-O18 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-O8 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-P14 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-P16 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-P17 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RAA11-P18 (0 - 1)	4/21/03	Soil	Tier I	No						
3D0P512	RB-042103-1 (0 - 0)	4/21/03	Water	Tier I	No						
3D0P538	RAA11-DUP-18 (1 - 3)	4/22/03	Soil	Tier I	No						RAA11-O15
3D0P538	RAA11-O15 (0 - 1)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O15 (1 - 3)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O15 (10 - 15)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O15 (3 - 6)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O15 (6 - 10)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O17 (0 - 1)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O17 (1 - 3)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O17 (10 - 15)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O17 (3 - 6)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O17 (6 - 10)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-O19 (10 - 15)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q15 (0 - 1)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q15 (1 - 3)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q15 (10 - 15)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q15 (3 - 6)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q15 (6 - 10)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q17 (0 - 1)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q17 (10 - 15)	4/22/03	Soil	Tier I	No						
3D0P538	RAA11-Q17 (6 - 10)	4/22/03	Soil	Tier I	No						
3D0P538	RB-042203-1 (0 - 0)	4/22/03	Water	Tier I	No						
3D0P570	RAA11-DUP-19 (3 - 6)	4/23/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	150.5%	<50%	5.1 J	RAA11-S15
						Total PCBs	Field Duplicate RPD (Soil)	150.5%	<50%	5.1 J	
3D0P570	RAA11-Q13 (0 - 1)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-Q13 (1 - 3)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-Q13 (10 - 15)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-Q13 (3 - 6)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-Q13 (6 - 10)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S13 (0 - 1)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S13 (1 - 3)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S13 (10 - 15)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S13 (3 - 6)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S13 (6 - 10)	4/23/03	Soil	Tier II	No						

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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)											
3D0P570	RAA11-S15 (0 - 1)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S15 (1 - 3)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S15 (10 - 15)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S15 (3 - 6)	4/23/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	150.5%	<50%	0.72 J	
						Total PCBs	Field Duplicate RPD (Soil)	150.5%	<50%	0.72 J	
3D0P570	RAA11-S15 (6 - 10)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S17 (0 - 1)	4/23/03	Soil	Tier II	No						
3D0P570	RAA11-S17 (10 - 15)	4/23/03	Soil	Tier II	No						
3D0P570	RB-042303-1 (0 - 0)	4/23/03	Water	Tier II	No						
3D0P592	RAA11-DUP-20 (0 - 1)	4/24/03	Soil	Tier II	No						RAA11-R14
3D0P592	RAA11-P12 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-P13 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-Q12 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-Q14 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-Q16 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-Q18 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-R12 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-R13 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-R14 (0 - 1)	4/24/03	Soil	Tier II	Yes	Aroclor-1016	MS %R	26.6%	50% to 130%	ND(0.038) J	
						Aroclor-1016	MS %R	71.7%	50% to 130%	ND(0.038) J	
						Aroclor-1221	MS %R	26.6%	50% to 130%	ND(0.038) J	
						Aroclor-1221	MS %R	71.7%	50% to 130%	ND(0.038) J	
						Aroclor-1232	MS %R	26.6%	50% to 130%	ND(0.038) J	
						Aroclor-1232	MS %R	71.7%	50% to 130%	ND(0.038) J	
						Aroclor-1242	MS %R	26.6%	50% to 130%	ND(0.038) J	
						Aroclor-1242	MS %R	71.7%	50% to 130%	ND(0.038) J	
						Aroclor-1248	MS %R	26.6%	50% to 130%	ND(0.038) J	
						Aroclor-1248	MS %R	71.7%	50% to 130%	ND(0.038) J	
						Aroclor-1254	MS %R	26.6%	50% to 130%	0.023 J	
						Aroclor-1254	MS %R	71.7%	50% to 130%	0.023 J	
						Aroclor-1254	MS/MSD RPD	91.8%	<40%	0.023 J	
						Aroclor-1260	MS %R	26.6%	50% to 130%	0.026 J	
						Aroclor-1260	MS %R	71.7%	50% to 130%	0.026 J	
						Aroclor-1260	MS/MSD RPD	91.8%	<40%	0.026 J	
						Total PCBs	MS %R	26.6%	50% to 130%	0.049 J	
						Total PCBs	MS %R	71.7%	50% to 130%	0.049 J	
						Total PCBs	MS/MSD RPD	91.8%	<40%	0.049 J	
3D0P592	RAA11-R15 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-R16 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-R17 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-R18 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-S14 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RAA11-S16 (0 - 1)	4/24/03	Soil	Tier II	No						
3D0P592	RB-042403-1 (0 - 0)	4/24/03	Water	Tier II	No						
3D0P649	RAA11-DUP-21 (6 - 10)	4/28/03	Soil	Tier I	No						RAA11-Q7
3D0P649	RAA11-Q7 (0 - 1)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q7 (1 - 3)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q7 (10 - 15)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q7 (3 - 6)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q7 (6 - 10)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q9 (0 - 1)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q9 (1 - 3)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q9 (10 - 15)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q9 (3 - 6)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-Q9 (6 - 10)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-S5 (0 - 1)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-S5 (10 - 15)	4/28/03	Soil	Tier I	No						
3D0P649	RAA11-S5 (3 - 6)	4/28/03	Soil	Tier I	No						
3D0P649	RB-042803-1 (0 - 0)	4/28/03	Water	Tier I	No						
3D0P671	RAA11-DUP-22 (3 - 6)	4/29/03	Soil	Tier I	No						RAA11-U3
3D0P671	RAA11-Q10 (0 - 1)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-R8 (0 - 1)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S3 (0 - 1)	4/29/03	Soil	Tier I	No						

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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)											
3D0P671	RAA11-S3 (1 - 3)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S3 (10 - 15)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S3 (3 - 6)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S3 (6 - 10)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S7 (0 - 1)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S7 (1 - 3)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S7 (10 - 15)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S7 (3 - 6)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S7 (6 - 10)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S9 (0 - 1)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S9 (1 - 3)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S9 (10 - 15)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S9 (3 - 6)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-S9 (6 - 10)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U3 (0 - 1)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U3 (1 - 3)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U3 (10 - 15)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U3 (3 - 6)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U3 (6 - 10)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U5 (0 - 1)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U5 (1 - 3)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U5 (10 - 15)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U5 (15 - 21)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U5 (3 - 6)	4/29/03	Soil	Tier I	No						
3D0P671	RAA11-U5 (6 - 10)	4/29/03	Soil	Tier I	No						
3D0P671	RB-042903-1 (0 - 0)	4/29/03	Water	Tier I	No						
3E0P016	RAA11-DUP-23 (3 - 6)	4/30/03	Soil	Tier I	No						RAA11-W7
3E0P016	RAA11-T4 (0 - 1)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-T6 (0 - 1)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U7 (0 - 1)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U7 (1 - 3)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U7 (10 - 15)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U7 (15 - 19)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U7 (3 - 6)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U7 (6 - 10)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U9 (0 - 1)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U9 (1 - 3)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U9 (10 - 15)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U9 (15 - 18)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U9 (3 - 6)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-U9 (6 - 10)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W5 (0 - 1)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W5 (1 - 3)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W5 (10 - 15)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W5 (3 - 6)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W5 (6 - 10)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W7 (0 - 1)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W7 (1 - 3)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W7 (10 - 15)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W7 (3 - 6)	4/30/03	Soil	Tier I	No						
3E0P016	RAA11-W7 (6 - 10)	4/30/03	Soil	Tier I	No						
3E0P016	RB-043003-1 (0 - 0)	4/30/03	Water	Tier I	No						
3E0P050	RAA11-DUP-24 (0 - 1)	5/1/03	Soil	Tier II	No						RAA11-T12
3E0P050	RAA11-S11 (0 - 1)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-S11 (1 - 3)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-S11 (10 - 15)	5/1/03	Soil	Tier II	No						

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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)											
3E0P050	RAA11-S11 (15 - 18)	5/1/03	Soil	Tier II	Yes	Aroclor-1016	Surrogate Recovery	6.1%	27% to 132%	R	
						Aroclor-1221	Surrogate Recovery	6.1%	27% to 132%	R	
						Aroclor-1232	Surrogate Recovery	6.1%	27% to 132%	R	
						Aroclor-1242	Surrogate Recovery	6.1%	27% to 132%	R	
						Aroclor-1248	Surrogate Recovery	6.1%	27% to 132%	R	
						Aroclor-1254	Surrogate Recovery	6.1%	27% to 132%	R	
						Aroclor-1260	Surrogate Recovery	6.1%	27% to 132%	1.3 J	
						Total PCBs	Surrogate Recovery	6.1%	27% to 132%	1.3 J	
3E0P050	RAA11-S11 (3 - 6)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-S11 (6 - 10)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-T12 (0 - 1)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-U11 (0 - 1)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-U11 (1 - 3)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-U11 (10 - 15)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-U11 (3 - 6)	5/1/03	Soil	Tier II	No						
3E0P050	RAA11-U11 (6 - 10)	5/1/03	Soil	Tier II	No						
3E0P050	RB-050103-1 (0 - 0)	5/1/03	Water	Tier II	No						
3E0P078	RAA11-DUP-25 (10 - 15)	5/2/03	Soil	Tier I	No						RAA11-W11
3E0P078	RAA11-HI25.5 (0 - 1)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-HI25.5 (1 - 3)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-HI25.5 (10 - 15)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-HI25.5 (3 - 6)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-HI25.5 (6 - 10)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-W11 (0 - 1)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-W11 (1 - 3)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-W11 (10 - 15)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-W11 (3 - 6)	5/2/03	Soil	Tier I	No						
3E0P078	RAA11-W11 (6 - 10)	5/2/03	Soil	Tier I	No						
3E0P078	RB-050203-1 (0 - 0)	5/2/03	Water	Tier I	No						
3E0P108	RAA11-DUP-26 (0 - 1)	5/5/03	Soil	Tier I	No						RAA11-U12
3E0P108	RAA11-R2 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-S12 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-S2 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-T11 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-T3 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-U12 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-V10 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-V11 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-V12 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-W10 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-W12 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-X10 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RAA11-X11 (0 - 1)	5/5/03	Soil	Tier I	No						
3E0P108	RB-050503-1 (0 - 0)	5/5/03	Water	Tier I	No						
3E0P142	RAA11-DUP-27 (0 - 1)	5/6/03	Soil	Tier II	No						RAA11-T5
3E0P142	RAA11-P8 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-Q8 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-R4 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-R5 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-S10 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-S4 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-S6 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-S8 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-T10 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-T2 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-T5 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-T7 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-T8 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-T9 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-U10 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-U4 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-U6 (0 - 1)	5/6/03	Soil	Tier II	No						

TABLE D-1
FORMER OXBOW AREAS A AND C PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
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)											
3E0P142	RAA11-U8 (0 - 1)	5/6/03	Soil	Tier II	Yes	Aroclor-1016	Surrogate Recovery	3.9%	27% to 132%	R	
						Aroclor-1221	Surrogate Recovery	3.9%	27% to 132%	R	
						Aroclor-1232	Surrogate Recovery	3.9%	27% to 132%	R	
						Aroclor-1242	Surrogate Recovery	3.9%	27% to 132%	R	
						Aroclor-1248	Surrogate Recovery	3.9%	27% to 132%	R	
						Aroclor-1254	Surrogate Recovery	3.9%	27% to 132%	0.021 J	
						Aroclor-1260	Surrogate Recovery	3.9%	27% to 132%	0.023 J	
						Total PCBs	Surrogate Recovery	3.9%	27% to 132%	0.044 J	
3E0P142	RAA11-V5 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-V6 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-V7 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-V8 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-W6 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-W8 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-X5 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-X6 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-X7 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RAA11-X8 (0 - 1)	5/6/03	Soil	Tier II	No						
3E0P142	RB-050603-1 (0 - 0)	5/6/03	Water	Tier II	No						
3E0P181	RAA11-DUP-28 (0 - 1)	5/7/03	Soil	Tier I	No						RAA11-R9
3E0P181	RAA11-R10 (0 - 1)	5/7/03	Soil	Tier I	No						
3E0P181	RAA11-R11 (0 - 1)	5/7/03	Soil	Tier I	No						
3E0P181	RAA11-R6 (0 - 1)	5/7/03	Soil	Tier I	No						
3E0P181	RAA11-R7 (0 - 1)	5/7/03	Soil	Tier I	No						
3E0P181	RAA11-R9 (0 - 1)	5/7/03	Soil	Tier I	No						
3E0P181	RB-050703-1 (0 - 0)	5/7/03	Water	Tier I	No						

Attachment E

Pre-Design Investigation Soil Sampling Data for PCBs

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

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-B24	0-1	4/2/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	24	32	56
RAA11-B25	0-1	4/2/2003	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	110	ND(4.0)	110
RAA11-C17	3-6	3/31/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-10	3/31/2003	ND(0.81)	ND(0.81)	ND(0.81)	ND(0.81)	ND(0.81)	7.4	5.8	13.2
	10-15	3/31/2003	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	7.9	6.7	14.6
RAA11-C18	0-1	3/31/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.032 J	0.032 J
RAA11-C19	0-1	3/31/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.36	0.36
	3-6	3/31/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.052	0.052
	6-10	3/31/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.97	0.75	1.72
	10-15	3/31/2003	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	1.6	1.4	3.0
RAA11-C21	0-1	4/1/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.086	0.086
	3-6	4/1/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	6-10	4/1/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.073	0.051	0.124
	10-15	4/1/2003	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)
RAA11-C24	0-1	4/2/2003	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	120	120
RAA11-C25	1-3	4/2/2003	ND(0.86)	ND(0.86)	ND(0.86)	ND(0.86)	ND(0.86)	8.7	6.1	14.8
	3-6	4/2/2003	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	1.4	0.30	1.7
	6-10	4/2/2003	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)
	10-15	4/2/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-D14	0-1	3/25/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.36	0.53	0.89
RAA11-D15	0-1	3/25/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	1.2	1.2
RAA11-D16	0-1	3/25/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-D17	0-1	3/31/2003	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]
RAA11-D19	0-1	3/25/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-D24	0-1	4/1/2003	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	96	96
RAA11-E13	0-1	3/28/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.25	0.25
	1-3	3/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.067	0.067
	3-6	3/28/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	1.4	0.16	1.56
	6-10	3/28/2003	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	1.6	0.71	2.31
	10-15	3/28/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.028 J	0.015 J	0.043 J
RAA11-E14	0-1	3/28/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.22	0.19	0.41
RAA11-E15	0-1	3/28/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.29	0.41	0.70
	1-3	3/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.14	0.094	0.234
	3-6	3/28/2003	ND(0.038) [ND(0.19)]	ND(0.038) [ND(0.19)]	ND(0.038) [ND(0.19)]	ND(0.038) [ND(0.19)]	ND(0.038) [ND(0.19)]	0.79 J [2.6 J]	0.27 [ND(0.19)]	1.06 J [2.6 J]
	6-8	3/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.93	ND(0.038)	0.93
RAA11-E16	0-1	3/31/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-E17	0-1	3/31/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)
	1-3	3/31/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.10	0.34	0.44
	3-6	3/31/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.21	0.21
	6-10	3/31/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.097	0.097
	10-15	3/31/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.44	0.65	1.09
RAA11-E18	0-1	4/1/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.042	ND(0.039)	0.042
	1-3	4/1/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	6-10	4/1/2003	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	2.6	0.98	3.58
RAA11-E19	0-1	4/1/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	1-3	4/1/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	4/1/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.11	0.30	0.41
	6-10	4/1/2003	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [0.90]	0.86 [1.4]	0.86 J [2.3 J]
	10-15	4/1/2003	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	43	43
RAA11-E20	0-1	3/25/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-E23	1-3	4/2/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.40	0.11	0.51
	3-6	4/2/2003	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83)	6.7	2.3	9.0
	6-10	4/2/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.089	ND(0.044)	0.089
	10-15	4/2/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-E25	1-3	4/1/2003	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	2.4	1.4	3.8
	3-6	4/1/2003	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	49	11	60
	6-10	4/2/2003	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.077	ND(0.050)	0.077
	10-15	4/2/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA11-E27	10-15	4/2/2003	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)
RAA11-F12	0-1	3/25/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-F13	0-1	3/25/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-F14	0-1	3/25/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-F15	0-1	3/25/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-F16	0-1	3/25/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-F17	0-1	3/25/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-F27	0-1	4/2/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	0.94	ND(0.19)	0.94
RAA11-G12	0-1	3/25/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-G13	0-1	3/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.045	ND(0.038)	0.045
	1-3	3/28/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.098	0.062	0.16
	3-6	3/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.57	0.80	1.37
	6-10	3/28/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.42	0.49	0.91
	10-15	3/28/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA11-G14	0-1	3/25/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA11-G15	0-1	3/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	1-3	3/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.078	0.11	0.188
	3-6	3/28/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.7	1.5	3.2
	6-10	3/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	1.2	1.1	2.3
	10-15	3/28/2003	ND(0.53)	ND(0.53)	ND(0.53)	ND(0.53)	ND(0.53)	4.0	4.7	8.7
RAA11-G21	0-1	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.17	0.052	0.222
	1-3	4/8/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.032 J	0.041	0.073
	3-6	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.020 J	0.020 J
	6-10	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	1.1	1.0	2.1
	10-15	4/8/2003	ND(0.95)	ND(0.95)	ND(0.95)	ND(0.95)	ND(0.95)	12	8.0	20
RAA11-G22	0-1	4/8/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-G23	1-3	4/8/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.4	0.34	1.74
	3-6	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.38	0.14	0.52
	6-10	4/8/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.4	0.39	1.79
	10-15	4/8/2003	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	26	26
RAA11-G25	1-3	4/2/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	3.6	4.2	7.8
	3-6	4/2/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	5.6	6.7	12.3
	6-10	4/2/2003	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	2.3	ND(0.22)	2.3
	10-15	4/2/2003	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	4.9	10	14.9
RAA11-G27	0-1	4/3/2003	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.69	0.64	1.33
	1-3	4/3/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.5	0.72	2.22
	3-6	4/3/2003	ND(0.87) [ND(0.21)]	ND(0.87) [ND(0.21)]	ND(0.87) [ND(0.21)]	ND(0.87) [ND(0.21)]	ND(0.87) [ND(0.21)]	2.6 [2.3]	ND(0.87) [1.0]	2.6 [3.3]
	6-10	4/3/2003	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)	1.1	1.5	2.6
	10-15	4/3/2003	ND(0.073)	ND(0.073)	ND(0.073)	ND(0.073)	ND(0.073)	1.1	0.74	1.84
RAA11-H11	0-1	3/26/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.52	0.52
RAA11-H12	0-1	3/25/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA11-H13	0-1	4/14/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.14	0.14
RAA11-H14	0-1	4/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-H15	0-1	3/25/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA11-H18	0-1	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-H19	0-1	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-H20	0-1	4/8/2003	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]
RAA11-H21	0-1	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11	0.034 J	0.144
RAA11-H23	0-1	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-H26	0-1	4/2/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	1.2	0.56	1.76

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-HI25.5	0-1	5/2/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.28	0.28
	1-3	5/2/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.42	0.27	0.69
	3-6	5/2/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	5/2/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	5/2/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA11-I11	0-1	3/26/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	1-3	3/26/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	3-6	3/26/2003	ND(0.81) [ND(2.0)]	ND(0.81) [ND(2.0)]	ND(0.81) [ND(2.0)]	ND(0.81) [ND(2.0)]	ND(0.81) [ND(2.0)]	ND(0.81) [ND(2.0)]	7.3 [6.7]	7.3 [6.7]
	6-10	3/26/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.73	0.64	1.37
	10-15	3/26/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA11-I12	0-1	4/16/2003	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	5.5	5.1	10.6
RAA11-I13	0-1	4/16/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	22	22
	1-3	4/16/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	11	11	22
	3-5	4/16/2003	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	14	14
RAA11-I13-LP	0-2	4/17/2003	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	35	43	78
	2-4	4/17/2003	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	34	55	89
	4-7	4/17/2003	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	25	25
RAA11-I14	0-1	4/16/2003	ND(0.81)	ND(0.81)	ND(0.81)	ND(0.81)	ND(0.81)	10	6.3	16.3
RAA11-I15	0-1	4/10/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.041	ND(0.039)	0.041
	1-3	4/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.47	0.21	0.68
	3-6	4/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.21	0.29	0.50
	6-10	4/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.11	0.074	0.184
	10-15	4/10/2003	ND(2.4)	ND(2.4)	ND(2.4)	ND(2.4)	ND(2.4)	ND(2.4)	40	40
RAA11-I16	0-1	4/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.072	0.072
RAA11-I17	0-1	4/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.075	ND(0.038)	0.075
	1-3	4/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.35	0.18	0.53
	3-6	4/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	1.7	1.7
	6-10	4/10/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	2.2	5.1	7.3
	10-15	4/10/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.54	0.81	1.35
RAA11-I18	0-1	4/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.4	0.72	2.12
RAA11-I19	0-1	4/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.59	0.59
	1-3	4/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.21	0.21
	3-6	4/10/2003	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	3.7	3.3	7.0
	6-10	4/10/2003	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	5.8	5.2	11
	10-15	4/10/2003	ND(0.90) [R]	ND(0.90) [R]	ND(0.90) [R]	ND(0.90) [R]	ND(0.90) [R]	5.3 J [0.61 J]	5.8 J [0.41 J]	11.1 J [1.02 J]
RAA11-I20	0-1	4/14/2003	ND(0.036) [ND(0.037)]	ND(0.036) [ND(0.037)]	ND(0.036) [ND(0.037)]	ND(0.036) [ND(0.037)]	ND(0.036) [ND(0.037)]	ND(0.036) [0.036 J]	0.078 [0.064]	0.078 [0.10]
RAA11-I21	0-1	4/9/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.027 J	0.025 J	0.052 J
	1-3	4/9/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.058	0.051	0.109
	3-6	4/9/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	6.0	5.2	11.2
	6-10	4/9/2003	ND(0.44) [ND(4.5)]	ND(0.44) [ND(4.5)]	ND(0.44) [ND(4.5)]	ND(0.44) [ND(4.5)]	ND(0.44) [ND(4.5)]	3.8 [ND(4.5)]	2.7 J [7.0 J]	6.5 [7.0]
	10-15	4/9/2003	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	3.3	3.9	7.2
RAA11-I22	0-1	4/8/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.11	0.095	0.205
RAA11-I23	1-3	4/9/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	3-6	4/9/2003	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	5.3	3.9	9.2
	6-10	4/9/2003	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	2.9	3.0	5.9
	10-15	4/9/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	1.7	1.2	2.9
RAA11-I25	0-1	4/3/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.17	0.49	0.66
	1-3	4/3/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	4/3/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-10	4/3/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	4/3/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-J11	0-1	3/25/2003	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	2.4	2.3	4.7
RAA11-J12	0-1	4/16/2003	ND(0.86)	ND(0.86)	ND(0.86)	ND(0.86)	ND(0.86)	7.1	7.6	14.7

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-J12-LP	0-2	4/16/2003	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	5.5	5.6	11.1
	2-4	4/16/2003	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83)	22	22
	4-6	4/16/2003	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	4.2	3.7	7.9
	6-8	4/16/2003	ND(0.87)	ND(0.87)	ND(0.87)	ND(0.87)	ND(0.87)	5.8	4.7	10.5
	8-10	4/16/2003	ND(0.86)	ND(0.86)	ND(0.86)	ND(0.86)	ND(0.86)	4.4	3.8	8.2
	10-12	4/16/2003	ND(0.87)	ND(0.87)	ND(0.87)	ND(0.87)	ND(0.87)	5.5	4.2	9.7
RAA11-J13	0-1	4/16/2003	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	ND(0.98)	8.4	7.7	16.1
RAA11-J14	0-1	4/14/2003	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	5.0	5.4	10.4
RAA11-J15	0-1	4/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.048	0.048
RAA11-J16	0-1	4/15/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.035 J	0.028 J	0.063 J
RAA11-J17	0-1	4/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.38	0.22	0.60
RAA11-J18	0-1	4/14/2003	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	1.7	1.1	2.8
RAA11-J19	0-1	4/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.060	0.060
RAA11-J20	0-1	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.037 J	0.037 J
RAA11-J21	0-1	4/8/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.10	0.14	0.24
RAA11-J24	0-1	4/8/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.82	1.4	2.22
RAA11-J25	0-1	4/8/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.21	0.11	0.32
RAA11-K10	0-1	3/26/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-K11	0-1	3/26/2003	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.3)	7.2	8.4	15.6
	1-3	3/26/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	5.4	6.0	11.4
	3-6	3/26/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	1.0	1.0	2.0
	6-10	3/26/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	3/26/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.99	0.99
RAA11-K12	0-1	4/17/2003	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	8.2	10	18.2
RAA11-K12-LP	0-2	4/17/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	5.8	8.6	14.4
	2-4	4/17/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	6.3	8.4	14.7
	4-6	4/17/2003	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	ND(4.2)	7.1	9.3	16.4
	6-8	4/17/2003	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	7.0	8.8	15.8
	8-11	4/17/2003	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	6.3	8.9	15.2
RAA11-K13	0-1	4/15/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.36	0.34	0.70
	1-3	4/15/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.067	0.090	0.157
	3-6	4/15/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.12	0.074	0.194
	6-10	4/15/2003	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	0.087 [0.062]	0.087 [0.062]
	10-15	4/15/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.12	0.12
RAA11-K14	0-1	4/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.40	0.52	0.92
RAA11-K15	0-1	4/15/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.11	0.089	0.199
	1-3	4/15/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	1.2	0.63	1.83
	3-6	4/15/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.18	0.18
	6-10	4/15/2003	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	0.082 [0.089]	0.064 [0.048]	0.146 [0.137]
	10-15	4/15/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.074	0.068	0.142
RAA11-K16	0-1	4/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.14	ND(0.040)	0.14
RAA11-K17	0-1	4/10/2003	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	7.0	3.3	10.3
	1-3	4/10/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	1.8	3.0	4.8
	3-6	4/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.13	0.10	0.23
	6-10	4/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	4/10/2003	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	2.7	3.0	5.7
RAA11-K18	0-1	4/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.97	0.56	1.53
RAA11-K19	0-1	4/9/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.049	0.051	0.10
	1-3	4/9/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	12	7.8	19.8
	3-6	4/9/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	3.4	4.1	7.5
	6-10	4/9/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.72	0.67	1.39
	10-15	4/9/2003	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	3.0	3.0
RAA11-K20	0-1	4/8/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.048	0.039 J	0.087

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-K21	1-3	4/9/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.28	0.23	0.51
	3-6	4/9/2003	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	15	15
	6-10	4/9/2003	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.1)	10	9.2	19.2
	10-15	4/9/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
RAA11-K23	0-1	4/3/2003	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	4.8	4.8
	1-3	4/3/2003	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	3.2	3.2
	3-6	4/3/2003	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	3.1	3.1
	6-10	4/3/2003	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.7	2.5	4.2
	10-15	4/3/2003	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)
RAA11-K24	0-1	4/8/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.086	0.046	0.132
RAA11-L10	0-1	3/26/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA11-L11	0-1	4/16/2003	ND(0.20) [ND(0.41)]	ND(0.20) [ND(0.41)]	ND(0.20) [ND(0.41)]	ND(0.20) [ND(0.41)]	ND(0.20) [ND(0.41)]	1.4 [ND(0.41)]	1.7 J [3.0 J]	3.1 [3.0]
RAA11-L12	0-1	4/16/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	1.7	1.8	3.5
RAA11-L13	0-1	4/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.37	0.37
RAA11-L14	0-1	4/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-L15	0-1	4/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-L16	0-1	4/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.057	ND(0.040)	0.057
RAA11-L17	0-1	4/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.12	0.11	0.23
RAA11-L18	0-1	4/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.042	ND(0.039)	0.042
RAA11-L19	0-1	4/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.18	0.22	0.40
RAA11-L22	0-1	4/8/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.016 J	0.023 J	0.039 J
RAA11-L23	0-1	4/8/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.065	0.065
RAA11-M10	0-1	3/25/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.082	0.082
RAA11-M11	0-1	3/26/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	1.2	ND(0.036)	1.2
	1-3	3/26/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	3/26/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-10	3/26/2003	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]
	10-15	3/26/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA11-M12	0-1	4/14/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.13	0.13
RAA11-M13	0-1	4/15/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.18	0.23	0.41
	1-3	4/15/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.047	0.047
	3-6	4/15/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.70	0.70
	6-10	4/15/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.47	0.75	1.22
	10-15	4/15/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	1.2	1.2
RAA11-M14	0-1	4/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.082	0.082
RAA11-M16	0-1	4/14/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	2.1	0.69	2.79
RAA11-M17	0-1	4/17/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	7.9	23	19	49.9
	1-3	4/17/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.17	0.26	0.43
	3-6	4/17/2003	ND(0.73)	ND(0.73)	ND(0.73)	ND(0.73)	1.5	5.5	4.3	11.3
	6-10	4/17/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11	0.11
	10-15	4/17/2003	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	45	45
RAA11-M18	0-1	4/14/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.27	0.16	0.43
RAA11-M19	0-1	4/9/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	13	6.4	19.4
	1-3	4/9/2003	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	6.3	4.3	10.6
	3-6	4/9/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.67	0.67
	6-10	4/9/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	10-15	4/9/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-M21	10-15	4/3/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-M22	0-1	4/8/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.031 J	0.031 J
RAA11-N9	0-1	3/25/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA11-N10	0-1	3/25/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.053	0.062	0.115
RAA11-N11	0-1	4/16/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.019 J	0.019 J
RAA11-N12	0-1	4/16/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.29	0.18	0.47
RAA11-N13	0-1	4/21/2003	ND(0.042) [ND(0.039)]	ND(0.042) [ND(0.039)]	ND(0.042) [ND(0.039)]	ND(0.042) [ND(0.039)]	ND(0.042) [ND(0.039)]	0.28 [0.19]	0.44 [0.33]	0.72 [0.52]
RAA11-N14	0-1	4/21/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.23	0.60	0.83
RAA11-N15	0-1	4/21/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.31	0.70	1.01
RAA11-N16	0-1	4/21/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.21	0.11	0.32

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-N17	0-1	4/21/2003	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	20	6.4	26.4
RAA11-N18	0-1	4/21/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	12	6.5	18.5
RAA11-N19	0-1	4/21/2003	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	24	24
RAA11-O8	0-1	4/21/2003	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	3.2	3.2
RAA11-O9	0-1	4/18/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.56	0.56
	1-3	4/18/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.033 J	0.033 J
	3-6	4/18/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	4/18/2003	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	6.1	4.8	10.9
RAA11-O10	0-1	4/21/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.020 J	0.020 J
RAA11-O11	0-1	4/18/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	1-3	4/18/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.032 J	0.032 J
	3-6	4/18/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.078	0.078
	6-10	4/18/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11	0.11
	10-15	4/18/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.3	1.3
RAA11-O12	0-1	4/18/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.073	0.073
RAA11-O13	0-1	4/17/2003	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	0.10 [0.061]	0.10 [0.061]
	1-3	4/17/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	4/17/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.35	0.35
	6-10	4/17/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.062	0.062
	10-15	4/17/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.078	0.078
RAA11-O14	0-1	4/21/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	1.5	1.5
RAA11-O15	0-1	4/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.10	0.10
	1-3	4/22/2003	ND(0.037) [ND(0.036)]	ND(0.037) [ND(0.036)]	ND(0.037) [ND(0.036)]	ND(0.037) [ND(0.036)]	ND(0.037) [ND(0.036)]	ND(0.037) [ND(0.036)]	ND(0.037) [ND(0.036)]	ND(0.037) [ND(0.036)]
	3-6	4/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.46	0.46
	6-10	4/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.89	0.89
	10-15	4/22/2003	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	7.8	7.8
RAA11-O16	0-1	4/21/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.59	0.59
RAA11-O17	0-1	4/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.22	0.59	0.81
	1-3	4/22/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.078	0.078
	3-6	4/22/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.068	0.068
	6-10	4/22/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.0	1.0
	10-15	4/22/2003	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	25	25
RAA11-O18	0-1	4/21/2003	ND(0.80)	ND(0.80)	ND(0.80)	ND(0.80)	ND(0.80)	ND(0.80)	8.6	8.6
RAA11-O19	10-15	4/22/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-P8	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.91	0.91
RAA11-P9	0-1	4/4/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.62	0.62
RAA11-P10	0-1	4/4/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.44	0.44
RAA11-P11	0-1	4/4/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	12	12
RAA11-P12	0-1	4/24/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.098	0.098
RAA11-P13	0-1	4/24/2003	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	6.4	5.0	11.4
RAA11-P14	0-1	4/21/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.084	0.084
RAA11-P16	0-1	4/21/2003	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.6	1.6
RAA11-P17	0-1	4/21/2003	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	140	140
RAA11-P18	0-1	4/21/2003	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	ND(0.79)	12	12
RAA11-Q7	0-1	4/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.58	0.58
	1-3	4/28/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.13	0.13
	3-6	4/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.22	0.22
	6-10	4/28/2003	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	0.35 [0.30]	0.35 [0.30]
	10-15	4/28/2003	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	6.1	6.1
RAA11-Q8	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.026 J	0.026 J

ATTACHMENT E
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SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-Q9	0-1	4/28/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.022 J	0.022 J
	1-3	4/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	4/28/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.54	0.54
	6-10	4/28/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.14	0.12	0.26
	10-15	4/28/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.17	0.17
RAA11-Q10	0-1	4/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.066	0.066
RAA11-Q11	0-1	4/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.45	0.45
	1-3	4/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.74	0.74
	3-6	4/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.18	0.18
	6-10	4/4/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.032 J	0.032 J
	10-15	4/4/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	14	14
RAA11-Q12	0-1	4/24/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.51	0.51
RAA11-Q13	0-1	4/23/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.098	0.098
	1-3	4/23/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.032 J	0.032 J
	3-6	4/23/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.039	0.039
	6-10	4/23/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.74	0.74
	10-15	4/23/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.16	0.16
RAA11-Q14	0-1	4/24/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.16	0.16
RAA11-Q15	0-1	4/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	1-3	4/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.064	0.064
	3-6	4/22/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.051	0.051
	6-10	4/22/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.18	0.18
	10-15	4/22/2003	ND(2.8)	ND(2.8)	ND(2.8)	ND(2.8)	ND(2.8)	ND(2.8)	4.7	4.7
RAA11-Q16	0-1	4/24/2003	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	12	17	29
RAA11-Q17	0-1	4/22/2003	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	160	160
	6-10	4/22/2003	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	ND(4.3)	72	72
	10-15	4/22/2003	ND(22)	ND(22)	ND(22)	ND(22)	ND(22)	ND(22)	150	150
RAA11-Q18	0-1	4/24/2003	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.28	0.28
RAA11-R2	0-1	5/5/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.8	1.8
RAA11-R4	0-1	5/6/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	2.1	2.1
RAA11-R5	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.53	0.53
RAA11-R6	0-1	5/7/2003	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.35)	3.8	3.8
RAA11-R7	0-1	5/7/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA11-R8	0-1	4/29/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA11-R9	0-1	5/7/2003	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.028 J [ND(0.035)]	0.028 J [ND(0.035)]
RAA11-R10	0-1	5/7/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.023 J	0.023 J
RAA11-R11	0-1	5/7/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.039	0.039
RAA11-R12	0-1	4/24/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.038	0.069	0.107
RAA11-R13	0-1	4/24/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	1.8	1.3	3.1
RAA11-R14	0-1	4/24/2003	ND(0.038) J [ND(0.040)]	ND(0.038) J [ND(0.040)]	ND(0.038) J [ND(0.040)]	ND(0.038) J [ND(0.040)]	ND(0.038) J [ND(0.040)]	0.023 J [ND(0.040)]	0.026 J [0.068]	0.049 J [0.068]
RAA11-R15	0-1	4/24/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11	0.11
RAA11-R16	0-1	4/24/2003	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	2.4	2.4
RAA11-R17	0-1	4/24/2003	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	130	130
RAA11-R18	0-1	4/24/2003	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	1.0	1.0
RAA11-S2	0-1	5/5/2003	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.2)	18	18
RAA11-S3	0-1	4/29/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.044	0.044
	1-3	4/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.036 J	0.036 J
	3-6	4/29/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.092	0.092
	6-10	4/29/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	4/29/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-S4	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	1.7	1.7
RAA11-S5	0-1	4/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.99	0.99
	3-6	4/28/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	32	32
	10-15	4/28/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.17	0.038	0.208
RAA11-S6	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.15	0.15

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-S7	0-1	4/29/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.20	ND(0.037)	0.20
	1-3	4/29/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.58	ND(0.037)	0.58
	3-6	4/29/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.50	ND(0.037)	0.50
	6-10	4/29/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.21	ND(0.042)	0.21
	10-15	4/29/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA11-S8	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.058	0.058
RAA11-S9	0-1	4/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	1-3	4/29/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	4/29/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.25	0.10	0.35
	6-10	4/29/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.13	0.059	0.189
	10-15	4/29/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-S10	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.31	0.12	0.43
RAA11-S11	0-1	5/1/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.34	0.070	0.41
	1-3	5/1/2003	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	3.1	ND(0.36)	3.1
	3-6	5/1/2003	ND(0.75)	ND(0.75)	ND(0.75)	ND(0.75)	ND(0.75)	1.9	1.2	3.1
	6-10	5/1/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.38	0.37	0.75
	10-15	5/1/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	15-18	5/1/2003	R	R	R	R	R	R	1.3 J	1.3 J
RAA11-S12	0-1	5/5/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.14	0.10	0.24
RAA11-S13	0-1	4/23/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.10	0.13	0.23
	1-3	4/23/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.098	0.098
	3-6	4/23/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.080	0.12	0.20
	6-10	4/23/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.15	0.15
	10-15	4/23/2003	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	85	85
RAA11-S14	0-1	4/24/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.052	0.052
RAA11-S15	0-1	4/23/2003	ND(0.77)	ND(0.77)	ND(0.77)	ND(0.77)	ND(0.77)	1.6	1.6	3.2
	1-3	4/23/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.61	0.37	0.98
	3-6	4/23/2003	ND(0.040) [ND(0.40)]	ND(0.040) [ND(0.40)]	ND(0.040) [ND(0.40)]	ND(0.040) [ND(0.40)]	ND(0.040) [ND(0.40)]	ND(0.040) [ND(0.40)]	0.72 J [5.1 J]	0.72 J [5.1 J]
	6-10	4/23/2003	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	ND(4.1)	13	13
	10-15	4/23/2003	ND(0.062)	ND(0.062)	ND(0.062)	ND(0.062)	ND(0.062)	ND(0.062)	0.26	0.26
RAA11-S16	0-1	4/24/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.048	0.088	0.136
RAA11-S17	0-1	4/23/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	280	280
	10-15	4/23/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.16	0.16
RAA11-T2	0-1	5/6/2003	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	53	53
RAA11-T3	0-1	5/5/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.11	0.11
RAA11-T4	0-1	4/30/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.034 J	0.034 J
RAA11-T5	0-1	5/6/2003	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	0.033 J [0.036 J]	0.033 J [0.036 J]
RAA11-T6	0-1	4/30/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA11-T7	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.040	0.040
RAA11-T8	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.11	0.11
RAA11-T9	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.53	0.53
RAA11-T10	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.14	ND(0.036)	0.18	0.064	0.384
RAA11-T11	0-1	5/5/2003	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	8.4	ND(1.8)	8.4
RAA11-T12	0-1	5/1/2003	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	0.16 [0.21]	0.043 [0.063]	0.203 [0.273]
RAA11-U3	0-1	4/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.046	0.046
	1-3	4/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	4/29/2003	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [0.039]	ND(0.038) [0.039]
	6-10	4/29/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	4/29/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA11-U4	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.040	0.040
RAA11-U5	0-1	4/29/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	1-3	4/29/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	3-6	4/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-10	4/29/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	4/29/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	15-21	4/29/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA11-U6	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA11-U7	0-1	4/30/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	1-3	4/30/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.033 J	0.033 J
	3-6	4/30/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	6-10	4/30/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	10-15	4/30/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	15-19	4/30/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA11-U8	0-1	5/6/2003	R	R	R	R	R	0.021 J	0.023 J	0.044 J
RAA11-U9	0-1	4/30/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	1-3	4/30/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	4/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	4/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	4/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	15-18	4/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-U10	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.078	0.084	0.162
RAA11-U11	0-1	5/1/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.79	0.41	1.2
	1-3	5/1/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.19	0.15	0.34
	3-6	5/1/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	6-10	5/1/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	5/1/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
RAA11-U12	0-1	5/5/2003	ND(0.040) [ND(0.040)]	ND(0.040) [ND(0.040)]	ND(0.040) [ND(0.040)]	ND(0.040) [ND(0.040)]	ND(0.040) [ND(0.040)]	0.098 [ND(0.040)]	0.11 [0.16]	0.208 [0.16]
RAA11-V5	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.35	0.35
RAA11-V6	0-1	5/6/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	2.4	2.4
RAA11-V7	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.098	0.059	0.157
RAA11-V8	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.037	0.037
RAA11-V10	0-1	5/5/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.066	ND(0.036)	0.066
RAA11-V11	0-1	5/5/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.12	0.067	0.187
RAA11-V12	0-1	5/5/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-W5	0-1	4/30/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	1-3	4/30/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	4/30/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	6-10	4/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	4/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-W6	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.090	0.090
RAA11-W7	0-1	4/30/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.13	0.13
	1-3	4/30/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.31	0.31
	3-6	4/30/2003	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]
	6-10	4/30/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	4/30/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA11-W8	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA11-W10	0-1	5/5/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.054	ND(0.036)	0.054
RAA11-W11	0-1	5/2/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	1-3	5/2/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	5/2/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	6-10	5/2/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	10-15	5/2/2003	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [0.086]	ND(0.037) [ND(0.037)]	ND(0.037) [0.086]
RAA11-W12	0-1	5/5/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.023 J	ND(0.037)	0.023 J
RAA11-X5	0-1	5/6/2003	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	6.8	6.8
RAA11-X6	0-1	5/6/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.13	0.13
RAA11-X7	0-1	5/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA11-X8	0-1	5/6/2003	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	21	21
RAA11-X10	0-1	5/5/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.026 J	ND(0.036)	0.026 J
RAA11-X11	0-1	5/5/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.068	ND(0.038)	0.068

ATTACHMENT E
PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE FORMER OXBOW AREAS A AND C REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and 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.
3. Field duplicate sample results are presented in brackets.
4. 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).

Data Qualifiers:

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