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

SDMS 201586

Transmitted Via Overnight Courier

October 29, 2004

Mr. William P. Lovely, Jr. (MC HBO)
USEPA - New England
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

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

Dear Mr. Lovely:

In August 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 at this Removal Action Area (RAA). Further, the PDI Report assessed the overall adequacy of the available data set to support future Removal Design/Removal Action (RD/RA) activities concerning the presence of PCBs and other constituents listed in Appendix IX of 40 CFR 264, plus benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3) in the soils. Based on that assessment, GE proposed in the PDI Report to perform certain supplemental soil investigations. EPA conditionally approved the PDI Report (and the proposed supplemental sampling) in a letter dated October 20, 2003. In that conditional approval letter, EPA also required that GE perform further supplemental sampling in the vicinity of the former Elm Street Mobil Station.

GE subsequently conducted the supplemental sampling and submitted a Supplemental PDI Report and Additional Sampling Proposal letter (Supplemental PDI Report), dated May 19, 2004. Based on GE's assessment of the initial PDI data and the results contained in the Supplemental PDI Report, GE proposed to modify the boundaries for this RAA to include Parcels I8-23-4 and I8-23-5 (the former Elm Street Mobil Station), for purposes of PCBs, and to collect additional PCB data south of the paved portion of Elm Street (within the City-owned southern right-of-way) to delineate the extent of PCBs south of Parcel I8-23-5. GE also proposed to modify the RAA boundaries to include Parcel I9-5-2 and to perform additional supplemental Appendix IX+3 sampling at this parcel because of the addition of the parcel to the RAA. In addition, GE proposed to perform additional supplemental polycyclic aromatic hydrocarbon (PAH) sampling in two areas at Parcel I8-23-6 where a preliminary review indicated that soil remediation may be needed to achieve applicable Performance Standards. In a letter dated July 1, 2004, EPA conditionally approved the proposals set forth in the Supplemental PDI Report, with certain modifications to the specific sampling that had been proposed. The July 1, 2004 letter also directed GE to evaluate the need for other sampling at particular locations and to report on that evaluation in the Conceptual RD/RA Work Plan. GE thereafter performed the proposed sampling as modified by EPA's conditional approval letter, with the two exceptions described in Section I, below.

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

- The results of the additional supplemental pre-design soil investigations, including a data quality review and validation of the new PCB and Appendix IX+3 data;

- An assessment of the need for any further PCB or Appendix IX+3 soil data to support future RD/RA evaluations; and
- A proposed schedule for submittal of the Conceptual RD/RA Work Plan that will summarize the results of RD/RA evaluations concerning the need for and scope of soil-related response actions to achieve the applicable Performance Standards for PCBs and the other Appendix IX+3 constituents.

I. Additional Supplemental Pre-Design Soil Investigations

Additional supplemental pre-design investigations for Former Oxbow Areas A and C included the collection and analysis of 26 soil samples from 16 locations. Figure 1 identifies the sampling locations and Table 1 identifies the analyses performed and the rationale for each sample. These soil samples were collected on behalf of GE by Blasland, Bouck, & Lee, Inc. (BBL) between July 28 and August 4, 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 additional supplemental samples for PCBs and Appendix IX+3 constituents are provided in Tables 2 and 3, respectively. Table 3 presents non-PCB Appendix IX+3 results for only those constituents that were detected in one or more samples. A complete listing of the Appendix IX+3 results is included in Attachment B. Each of the supplemental and pertinent existing pre-design sample locations is shown on Figure 1. Figure 2 shows all the locations of the pre-design samples, including the supplemental samples, collected for PCB analysis. The locations of the pre-design samples, including the supplemental samples collected for analysis of other Appendix IX+3 constituents, are shown on Figures 3 through 7 for the various depth increments.

With two exceptions (discussed below), the supplemental sampling activities were performed consistent with the proposals identified by GE and approved by EPA. The exceptions consisted of cases where sample locations were modified due to surface obstructions. The locations where these offset samples occurred are summarized below.

- The presence of abundant landscaping debris (e.g., tree cuttings and brush piles) at the proposed location for supplemental sample RAA11-G28 (0- to 1-foot depth increment) prevented the collection of this sample at this location (Figure 1). Therefore, this sample was collected 10 feet south of the proposed location. It should be noted that this location was proposed to provide additional Appendix IX+3 characterization for the 0- to 1-foot depth increment within Parcel I9-5-2. However, as a result of moving the location slightly south, the location of sample RAA11-G28 shifted from within Parcel I9-5-2 to just inside the boundary of adjacent Parcel I9-5-3 (Figure 1). Available survey information indicates that the actual sample location is within 2.2 feet of the property boundary. Based on the close proximity of this sample location to Parcel I9-5-2 and the inaccessibility of the initial proposed sample location that required moving the location in the first instance, GE proposes to use the RAA11-G28 sample to characterize surface soils within Parcel I9-5-2.

- Due to the presence of EPA's temporary wastewater treatment plant constructed within Parcel I8-23-6, collection of supplemental sample RAA11-G15E (0- to 1-foot depth increment) was not possible at the proposed location. Therefore, this sample location was moved approximately 10 feet northwest to an area where concrete was not present.

None of the modifications identified above significantly affects the overall intended use of the additional supplemental samples.

II. Data Quality Assessment

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, 99.7% 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 resampling needed as a result of this data validation.

III. Results for (Southern) Elm Street Right-of-Way

As proposed by GE in the Supplemental PDI Report (May 19, 2004), and as further required in EPA's July 1, 2004 conditional approval letter, GE collected surface and subsurface PCB soil samples in the City-owned right-of-way on the south side of Elm Street across from the former Elm Street Mobil station. Specifically, GE performed additional sampling in the southern right-of-way across Elm Street from surface samples RAA11-X2 and -X3. As shown on Figure 1, surface (0- to 1-foot depth increment) soil samples were collected at locations SROW-1, SROW-3, and SROW-5 as part of the additional supplemental sampling. In addition, surface samples and subsurface samples were collected at locations SROW-2 and SROW-4. The subsurface samples at these borings were collected at 2-foot depth increments to a total depth of 15 feet.

PCB results for each of the samples from the 0- to 1-foot depth increment at the five locations in the southern right-of-way indicated that PCBs were present at very low levels (0.33 ppm or lower). Therefore, with concurrence from EPA, analyses of the samples collected at depths deeper than 1 foot were not performed. Based on these additional supplemental sampling results, GE does not propose to perform additional sampling in this area. Further, since all sample results were less than 2 ppm PCBs, no further evaluation for this area is warranted.

IV. Results for Parcels I9-5-2 and I8-23-6

In the Supplemental PDI Report, GE described its approach for conducting preliminary RD/RA evaluations and identified certain areas either where existing data are not adequate for RD/RA evaluations or where existing conditions do not meet the applicable Performance Standards established in the CD and SOW and additional data were necessary to delineate the extent of removal required. In that letter report, based on the presence of PCB concentrations above 2 ppm at Parcel I9-5-2, GE proposed to modify the RAA boundary to include this parcel. While previous PCB characterization for this parcel was sufficient for the purpose of RD/RA evaluations, GE required data for non-PCB Appendix IX+3 constituents to perform RD/RA evaluations. Hence, GE proposed to collect such samples. In addition, GE proposed additional sampling and analysis for delineation purposes in areas where remediation will likely be needed. This additional supplemental sampling was performed at two locations in the recreational area at Parcel I8-23-6 where elevated concentrations of PAHs were present. The results of the supplemental sampling performed at Parcels I9-5-2 and I8-23-6 are described below.

Parcel I9-5-2

As shown in Table 1, GE collected additional supplemental soil samples at four locations at (or, in the case of location RAA11-G28, as discussed above, immediately adjacent to) Parcel I9-5-2 to provide Appendix IX+3 coverage for this parcel. As shown on Figure 3, surface (0- to 1-foot depth increment) soil samples were collected at locations RAA11-G28 and RAA11-H26A and analyzed for Appendix IX+3 constituents (except pesticides and herbicides). Also, a subsurface sample was collected at the 1- to 3-foot depth at the RAA11-H27 boring and analyzed for these same Appendix IX+3 constituents (Figure 4). In addition, as shown on Figure 5, a sample was collected at the 3- to 6-foot depth at the RAA11-H27 boring and analyzed for polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDDs/PCDFs). Finally, a sample was collected at the 10- to 15-foot depth increment at the RAA11-G27A boring and analyzed for PCDDs/PCDFs (Figure 7).

The results of the additional supplemental soil sampling at Parcel I9-5-2 have been incorporated into the preliminary RD/RA evaluations to determine whether the supplemental sampling data are sufficient to address data needs and thus to support future RD/RA activities. Based on the preliminary evaluation of the Appendix IX+3 results for these samples (with further evaluations to be reviewed and presented to EPA in the Conceptual RD/RA Work Plan), it appears that the applicable Performance Standards will be achieved without the need for soil removal. Therefore, GE does not propose additional supplemental sampling at Parcel I9-5-2.

Parcel I8-23-6

At the time the Supplemental PDI Report (May 19, 2004) was prepared, preliminary RD/RA evaluations performed for the recreational area at Parcel I8-23-6 indicated that existing concentrations of polycyclic aromatic hydrocarbons (PAHs) will likely not achieve applicable Performance Standards, due primarily to the sample results for the 0- to 1-foot depth increments at locations RAA11-C17 and RAA11-G15. Consequently, GE proposed (and EPA approved) collection of additional supplemental soil samples from the 0- to 1-foot depth increment at locations around RAA11-C17 and RAA11-G15 for analysis for semi-volatile organic compounds (SVOCs) (Table 1 and Figure 3). In addition to this sampling, EPA directed GE to collect a deeper SVOC sample to assess the vertical extent of PAHs at RAA11-C17.

Based on the results of the additional supplemental sampling shown in Table 3, GE has updated its preliminary RD/RA evaluations. In the course of performing that updated evaluation, GE has identified three constituents, each detected only once in this averaging area, that GE proposes to screen out based on very low frequency of detection. These three substances are 3,3'-dimethylbenzidine (detected once out of 133 samples), benzidine (detected once out of 130 samples), and n-nitrosodimethylamine (detected once out of 133 samples).

Based on GE's updated preliminary RD/RA evaluations (with further evaluations, as reviewed, to be presented to EPA in the Conceptual RD/RA Work Plan), GE has determined that the additional samples collected from the 0- to 1-foot depth increment around RAA11-C17 and RAA11-G15 are sufficient to support removal of soil associated with the elevated PAHs at these locations. Further, the SVOC sample results for the 1- to 3-foot depth increment at the RAA11-C17 location indicate that PAH concentrations are low and that no further vertical sampling is necessary at this location (Table 3). Therefore, GE does not propose any additional subsurface sampling at RAA11-C17.

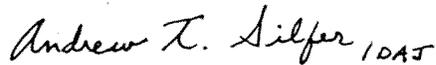
V. Development of Conceptual RD/RA Work Plan and Schedule

In combination with the pre-design investigation soil data, as well as other previous soil data, the results from the additional supplemental pre-design soil sampling performed to date appear sufficient to characterize soils within the Former Oxbow Areas A and C and to support the necessary RD/RA

evaluations for this RAA. As such, GE will submit the Conceptual RD/RA Work Plan for the Former Oxbow Areas A and C RAA by January 14, 2005, as specified in EPA's July 1, 2004 conditional approval letter for the Supplemental PDI Report. If the results of the further RD/RA evaluations indicate that any additional soil sampling is needed, GE will submit a proposal for such sampling concurrently with the submittal 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, P.E.
GE Project Coordinator

Attachments

V:\GE_Pittsfield_CD_Former_Oxbow_Areas_A_and_C\Reports and Presentations\Add'l Supplemental Rpt\66342196.doc

cc: Tim Conway, EPA
Rose Howell, EPA
Dean Tagliaferro, EPA
Holly Inglis, EPA
K.C. Mitkevicius, USACE
Susan Steenstrup, MDEP (2 copies)
Anna Symington, MDEP*
Robert Bell, MDEP*
Thomas Angus, MDEP*
Linda Palmieri, Weston
Nancy E. Harper, MA AG*
Dale Young, MA EOE*
Mayor James Ruberto, City of Pittsfield
Pittsfield Department of Health
Michael Carroll, GE*

Rod McLaren, GE*
Richard Gates, GE
James Nuss, BBL
James Bieke, Goodwin Procter LLP
Property Owner – Parcels 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

**TABLE 1
SUMMARY OF ADDITIONAL SUPPLEMENTAL SAMPLING LOCATIONS**

**ADDITIONAL 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					Rationale
				PCBs	VOCs	SVOCs	Inorganics	PCDD/PCDF	
Southern Elm Street Right-of-Way	RAA11-X3	SROW-1	0-1	X	--	--	--	--	Determine existing PCB soil conditions at the southern right-of-way across Elm Street from RAA11-X3.
	RAA11-X3	SROW-2	0-1	X	--	--	--	--	
	RAA11-X3	SROW-3	0-1	X	--	--	--	--	
	RAA11-X3	SROW-4	0-1	X	--	--	--	--	
	RAA11-X3	SROW-5	0-1	X	--	--	--	--	
18-23-6	RAA11-C17	RAA11-C17	1-3	--	--	X	--	--	Vertical delineation for SVOCs below RAA11-C17 (0- to 1-foot).
		RAA11-C17E	0-1	--	--	X	--	--	Delineation for SVOCs surrounding RAA11-C17 (0- to 1-foot)at recreational area in Parcel 18-23-6.
	RAA11-C17SW	0-1	--	--	X	--	--	Delineation for SVOCs surrounding RAA11-C17 (0- to 1-foot)at recreational area in Parcel 18-23-6.	
	RAA11-G15	RAA11-G15N	0-1	--	--	X	--	--	Delineation for SVOCs surrounding RAA11-C17 (0- to 1-foot)at recreational area in Parcel 18-23-6.
		RAA11-G15S	0-1	--	--	X	--	--	
	RAA11-G15E	0-1	--	--	X	--	--		
	RAA11-G15W	0-1	--	--	X	--	--		
19-5-2	RAA11-G28	RAA11-G28	0-1	--	X	X	X	X	Provide additional Appendix IX+3 samples at Parcel 19-5-2.
	RAA11-H26	RAA11-H26A	0-1	--	X	X	X	X	Provide additional Appendix IX+3 samples at Parcel 19-5-2.
	RAA11-H27	RAA11-H27	1-3	--	X	X	X	X	Provide additional Appendix IX+3 samples at Parcel 19-5-2.
			3-6	--	--	--	--	X	
RAA11-G27	RAA11-G27A	10-15	--	--	--	--	X	Provide additional Appendix IX+3 samples at Parcel 19-5-2.	

Notes:

1. X = Identifies location and depth at which a soil sample was collected and analyses performed as part of the additional supplemental sampling.

**TABLE 2
 ADDITIONAL SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs**

**ADDITIONAL 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
SROW-1	0-1	8/4/2004	ND(0.038) [ND(0.038)]	0.10 [0.10]	0.17 [0.15]	0.27 [0.25]				
SROW-2	0-1	8/4/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.11	0.14	0.25
SROW-3	0-1	8/4/2004	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.11	0.13	0.24
SROW-4	0-1	8/4/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.17	0.16	0.33
SROW-5	0-1	8/4/2004	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.14	0.17	0.31

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc. (BBL; FSP/QAPP, approved May 25, 2004 and resubmitted June 15, 2004).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.

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

ADDITIONAL 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-C17 1-3 07/28/04	RAA11-C17E 0-1 07/28/04	RAA11-C17SW 0-1 07/28/04	RAA11-G15E 0-1 07/28/04	RAA11-G15N 0-1 07/28/04	RAA11-G15S 0-1 07/28/04	RAA11-G15W 0-1 07/28/04
Volatile Organics							
None Detected	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organics							
2-Methylnaphthalene	0.082 J [ND(0.37)]	ND(0.39)	ND(0.38)	11	ND(0.40)	0.41	0.88
3&4-Methylphenol	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	0.26 J
4-Nitrophenol	ND(1.9) J [ND(1.9) J]	ND(2.0) J	ND(1.9) J	ND(2.0) J	ND(2.0) J	ND(2.0) J	ND(2.2) J
Acenaphthene	0.17 J [0.10 J]	0.22 J	ND(0.38)	12	ND(0.40)	ND(0.38)	1.6
Acenaphthylene	0.91 [0.43]	1.1	0.21 J	21	1.8	3.0	11
Anthracene	0.91 [0.39]	0.75	ND(0.38)	41	1.3	2.1	10
Benzo(a)anthracene	2.2 J [1.1 J]	1.5	0.087 J	64	3.4	3.5	20
Benzo(a)pyrene	1.5 [0.87]	1.3	0.082 J	38	2.6	2.7	8.5
Benzo(b)fluoranthene	1.3 [0.60]	1.2	ND(0.38)	30	2.3	2.3	13
Benzo(g,h,i)perylene	1.2 [0.62]	1.0	ND(0.38)	23	1.8	2.1	7.5
Benzo(k)fluoranthene	1.4 [1.0]	1.0	ND(0.38)	35	2.4	2.5	14
Chrysene	2.4 J [1.3 J]	1.5	0.087 J	64	3.6	3.5	21
Dibenzo(a,h)anthracene	0.32 J [0.27 J]	0.25 J	ND(0.38)	7.0	0.59	0.69	2.7
Dibenzofuran	0.094 J [ND(0.37)]	ND(0.39)	ND(0.38)	13	ND(0.40)	0.36 J	1.5
Fluoranthene	4.7 J [2.4 J]	2.4	0.13 J	180	6.9	6.8	44
Fluorene	0.29 J [0.12 J]	0.14 J	ND(0.38)	33	0.43	0.51	3.4
Indeno(1,2,3-cd)pyrene	0.90 [0.51]	0.82	ND(0.38)	20	1.6	1.7	6.5
Naphthalene	0.098 J [0.077 J]	0.083 J	ND(0.38)	18	0.18 J	0.45	1.1
Phenanthrene	1.8 [0.84]	0.81	ND(0.38)	170	2.9	3.2	22
Phenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	0.82	ND(0.40)	ND(0.38)	ND(0.43)
Pyrene	4.2 J [2.2 J]	2.4	0.14 J	120	6.5	5.8	37
Furans							
2,3,7,8-TCDF	NA	NA	NA	NA	NA	NA	NA
TCDFs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA
PeCDFs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA
HxCDFs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	NA	NA	NA
HpCDFs (total)	NA	NA	NA	NA	NA	NA	NA
OCDF	NA	NA	NA	NA	NA	NA	NA
Dioxins							
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA
TCDDs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	NA	NA	NA	NA	NA	NA	NA
PeCDDs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	NA	NA	NA
HxCDDs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	NA	NA	NA
HpCDDs (total)	NA	NA	NA	NA	NA	NA	NA
OCDD	NA	NA	NA	NA	NA	NA	NA
Total TEQs (WHO TEFs)	NA	NA	NA	NA	NA	NA	NA
Inorganics							
Antimony	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA
Sulfide	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA

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

ADDITIONAL 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-G27A 10-15 07/28/04	RAA11-G28 0-1 07/28/04	RAA11-H26A 0-1 07/28/04	RAA11-H27 1-3 07/28/04	RAA11-H27 3-6 07/28/04
Volatile Organics					
None Detected	NA	--	--	--	NA
Semivolatile Organics					
2-Methylnaphthalene	NA	ND(0.41)	ND(0.39)	0.11 J	NA
3&4-Methylphenol	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
4-Nitrophenol	NA	ND(2.1) J	ND(2.0) J	0.24 J	NA
Acenaphthene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Acenaphthylene	NA	0.11 J	2.4	1.7	NA
Anthracene	NA	ND(0.41)	1.9	1.9	NA
Benzo(a)anthracene	NA	0.088 J	4.9	4.1	NA
Benzo(a)pyrene	NA	ND(0.41)	3.2	2.2	NA
Benzo(b)fluoranthene	NA	ND(0.41)	3.0	1.8	NA
Benzo(g,h,i)perylene	NA	ND(0.41)	2.2	1.2	NA
Benzo(k)fluoranthene	NA	ND(0.41)	3.1	1.8	NA
Chrysene	NA	0.12 J	6.1	4.6	NA
Dibenzo(a,h)anthracene	NA	ND(0.41)	0.76	0.42	NA
Dibenzofuran	NA	ND(0.41)	0.16 J	0.25 J	NA
Fluoranthene	NA	0.19 J	7.8	6.6	NA
Fluorene	NA	ND(0.41)	0.47	0.88	NA
Indeno(1,2,3-cd)pyrene	NA	ND(0.41)	1.8	1.0	NA
Naphthalene	NA	ND(0.41)	0.10 J	0.14 J	NA
Phenanthrene	NA	0.083 J	6.0	5.7	NA
Phenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Pyrene	NA	0.19 J	7.1	6.2	NA
Furans					
2,3,7,8-TCDF	ND(0.0000013) X [0.0000010 J]	0.000040 Y	0.000036 Y	0.000042 Y	0.000018 Y
TCDFs (total)	0.0000014 J [0.0000010 J]	0.000053	0.000039 Q	0.000041 QI	0.000014 I
1,2,3,7,8-PeCDF	ND(0.0000025) [ND(0.0000024)]	0.000016 J	0.000014 J	0.000013 JQ	0.0000060 J
2,3,4,7,8-PeCDF	ND(0.0000025) [ND(0.0000024)]	0.000022 J	0.000041	0.000032	0.0000081 J
PeCDFs (total)	ND(0.0000025) [ND(0.0000024)]	0.000051 Q	0.000048 Q	0.000022 Q	0.0000093 Q
1,2,3,4,7,8-HxCDF	ND(0.0000025) [ND(0.0000024)]	0.0000091 J	0.000022	0.000016	0.0000070 J
1,2,3,6,7,8-HxCDF	ND(0.0000025) [ND(0.0000024)]	0.0000080 J	0.000016	0.000012 J	0.0000045 J
1,2,3,7,8,9-HxCDF	ND(0.0000025) [ND(0.0000024)]	ND(0.0000036) Q	0.000047 JQ	ND(0.0000034) Q	ND(0.0000021)
2,3,4,6,7,8-HxCDF	ND(0.0000025) [ND(0.0000024)]	0.0000098 J	0.000034	0.000018	0.0000038 J
HxCDFs (total)	ND(0.0000025) [ND(0.0000024)]	0.000018 Q	0.000048 Q	0.000026	0.0000062
1,2,3,4,6,7,8-HpCDF	ND(0.0000025) [ND(0.0000024)]	0.0000024	0.000052	0.000032	0.0000014 J
1,2,3,4,7,8,9-HpCDF	ND(0.0000025) [ND(0.0000024)]	0.0000036 J	0.000062 J	0.000040 J	ND(0.0000021)
HpCDFs (total)	ND(0.0000025) [ND(0.0000024)]	0.000045	0.00012	0.000071	0.0000024
OCDF	ND(0.0000050) [ND(0.0000048)]	0.000023 J	0.000039	0.000027 J	0.0000099 J
Dioxins					
2,3,7,8-TCDD	ND(0.0000010) [ND(0.00000096)]	ND(0.0000010)	ND(0.0000094)	ND(0.0000013)	ND(0.00000085)
TCDDs (total)	ND(0.0000028) [ND(0.0000024)]	ND(0.0000029)	ND(0.000021)	ND(0.000021)	ND(0.0000022)
1,2,3,7,8-PeCDD	ND(0.0000025) [ND(0.0000024)]	ND(0.0000023)	ND(0.000027) X	ND(0.000014) Q	ND(0.0000021)
PeCDDs (total)	ND(0.0000043) [ND(0.0000033)]	0.000011 JQ	0.000014 JQ	0.000012 JQ	ND(0.0000036)
1,2,3,4,7,8-HxCDD	ND(0.0000027) [ND(0.0000032)]	ND(0.0000043)	ND(0.000021)	ND(0.000033)	ND(0.0000021)
1,2,3,6,7,8-HxCDD	ND(0.0000025) [ND(0.0000028)]	ND(0.0000038)	0.000027 J	0.000029 J	ND(0.0000021)
1,2,3,7,8,9-HxCDD	ND(0.0000026) [ND(0.0000031)]	ND(0.0000041)	0.000022 J	ND(0.0000032)	ND(0.0000021)
HxCDDs (total)	ND(0.0000048) [ND(0.0000047)]	0.0000086 J	0.000011 J	0.000022	ND(0.0000021)
1,2,3,4,6,7,8-HpCDD	ND(0.0000025) [ND(0.0000024)]	0.000025	0.000023	0.000016	0.0000055 J
HpCDDs (total)	ND(0.0000025) [ND(0.0000024)]	0.000051	0.000046	0.000031	0.000010 J
OCDD	0.000012 J [0.0000074 J]	0.000017	0.00016	0.00011	0.0000029 J
Total TEQs (WHO TEFs)	0.0000034 [0.0000034]	0.000021	0.000036	0.000028	0.0000098
Inorganics					
Antimony	NA	ND(6.00)	ND(6.00)	0.830 B [ND(6.00)]	NA
Arsenic	NA	8.90	15.0	5.00 [6.80]	NA
Barium	NA	22.0	40.0	39.0 [36.0]	NA
Beryllium	NA	ND(0.500)	0.120 B	0.0520 B [0.150 B]	NA
Cadmium	NA	0.330 B	0.440 B	0.400 B [0.570]	NA
Chromium	NA	7.60	6.60	5.00 [6.70]	NA
Cobalt	NA	5.20	7.30	5.30 [7.20]	NA
Copper	NA	15.0	24.0	20.0 [24.0]	NA
Cyanide	NA	0.190	0.140	0.0960 B [0.0700 B]	NA
Lead	NA	43.0	69.0	75.0 [78.0]	NA
Mercury	NA	0.130	0.130	0.300 [0.240]	NA
Nickel	NA	10.0	13.0	8.50 [13.0]	NA
Selenium	NA	0.810 J	ND(1.00) J	ND(1.00) J [0.560 J]	NA
Silver	NA	0.140 B	0.130 B	ND(1.00) [0.110 B]	NA
Sulfide	NA	ND(6.10)	7.60	350 J [200 J]	NA
Vanadium	NA	10.0	8.20	6.00 [7.60]	NA
Zinc	NA	60.0	69.0	51.0 [76.0]	NA

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

ADDITIONAL 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 Biasland Bouck & Lee, Inc., and were submitted to SGS 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, Biasland, Bouck & Lee, Inc. (BBL; FSP/QAPP, approved May 25, 2004 and resubmitted June 15, 2004).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
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. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
7. -- Indicates that all constituents for the parameter group were not detected.
8. Field duplicate sample results are presented in brackets.

Data Qualifiers:

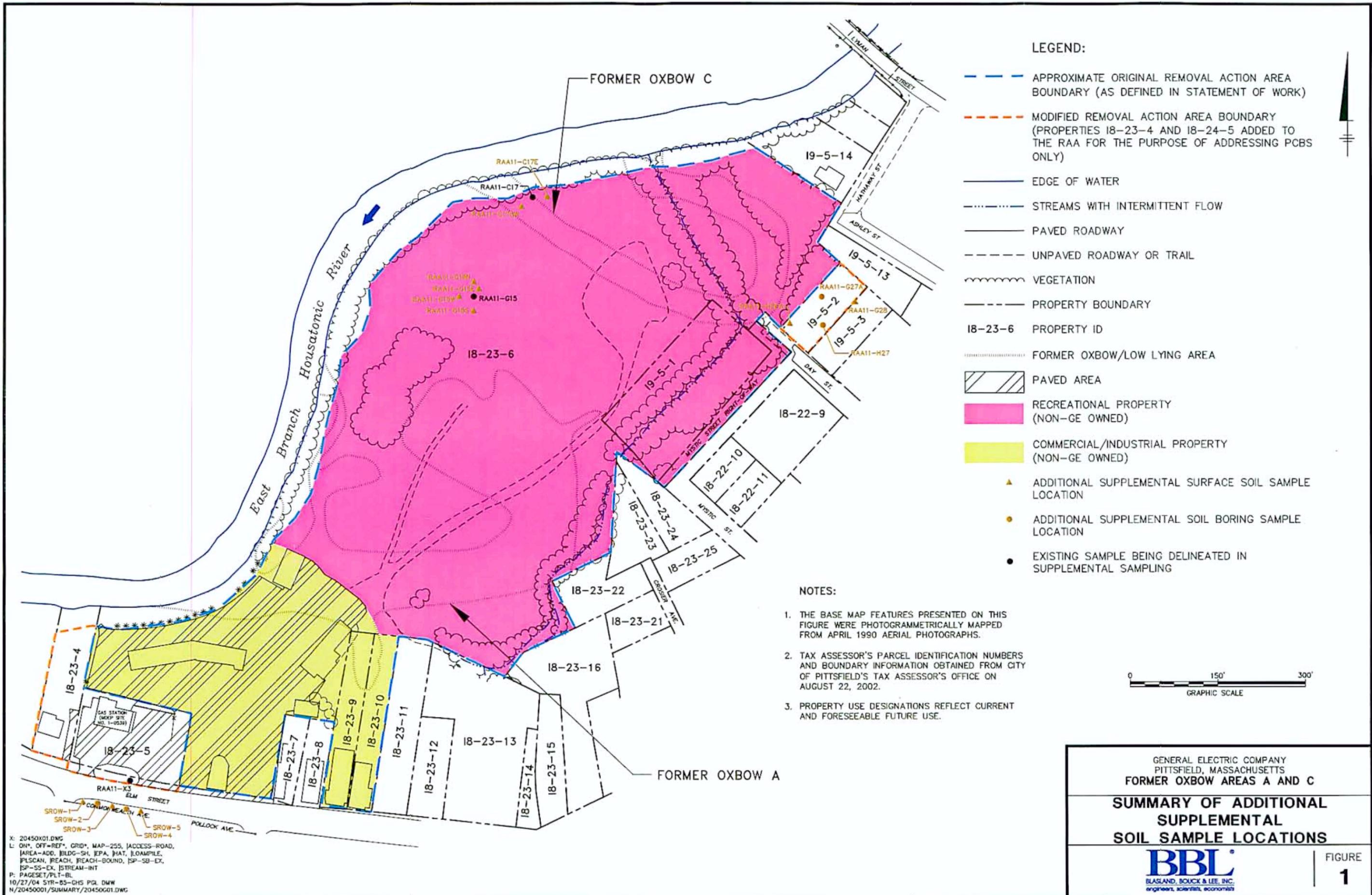
Organics (volatiles, semivolatiles, dioxin/furans)

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

Inorganics

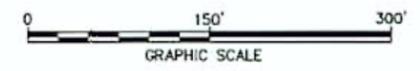
- B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J - Indicates that the associated numerical value is an estimated concentration.

Figures



- LEGEND:**
- APPROXIMATE ORIGINAL REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
 - MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES 18-23-4 AND 18-24-5 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
 - 18-23-6 PROPERTY ID
 - FORMER OXBOW/LOW LYING AREA
 - PAVED AREA
 - RECREATIONAL PROPERTY (NON-GE OWNED)
 - COMMERCIAL/INDUSTRIAL PROPERTY (NON-GE OWNED)
 - ▲ ADDITIONAL SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
 - ADDITIONAL SUPPLEMENTAL SOIL BORING SAMPLE LOCATION
 - EXISTING SAMPLE BEING DELINEATED IN SUPPLEMENTAL SAMPLING

- 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.



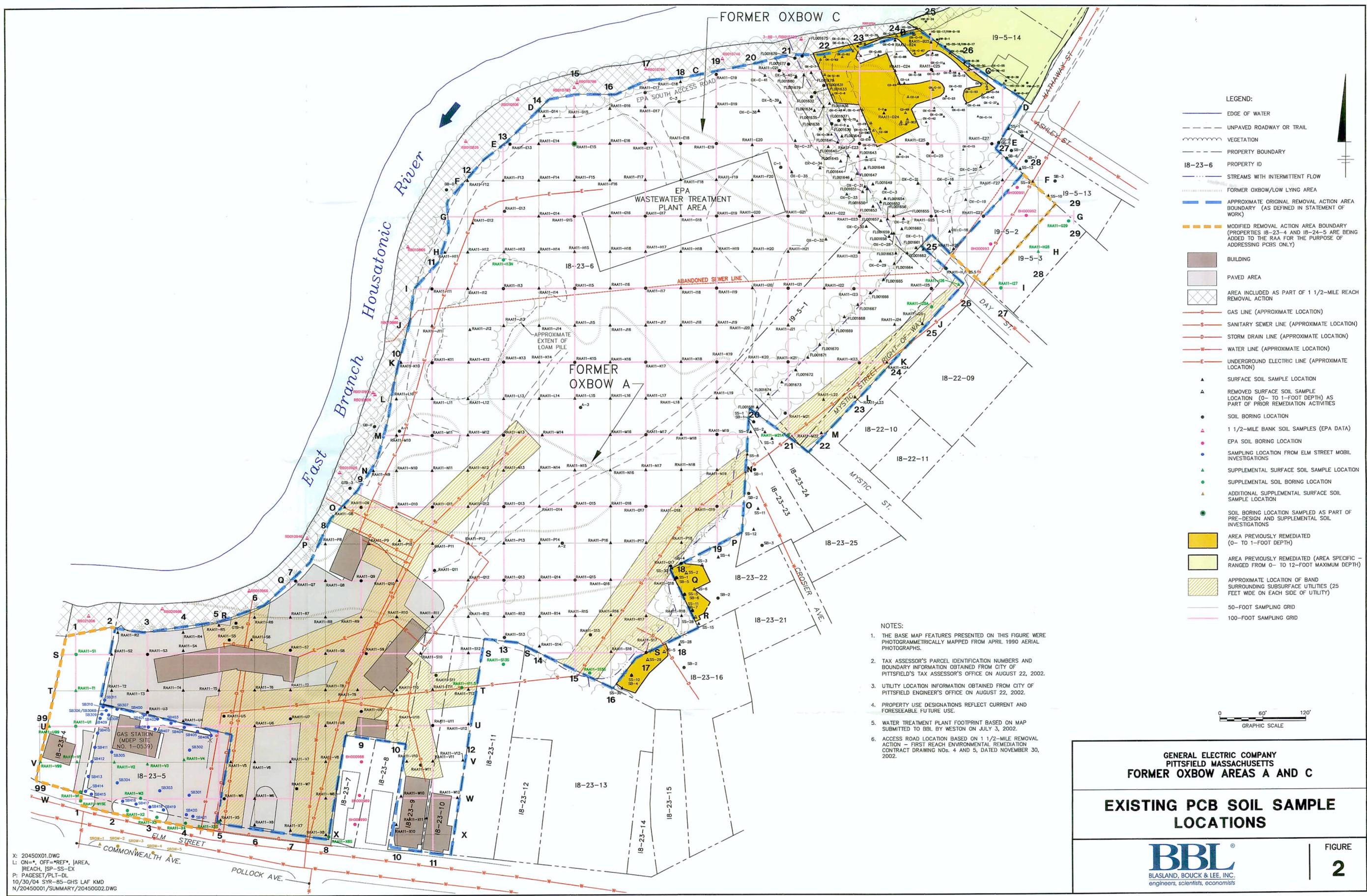
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 P: PAGESET/PLT-BL
 10/27/04 5YR-85-CHS PGL DMW
 N/20450001/SUMMARY/20450001.DWG

GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
FORMER OXBOW AREAS A AND C

**SUMMARY OF ADDITIONAL
 SUPPLEMENTAL
 SOIL SAMPLE LOCATIONS**

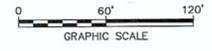
BBL
 BLASLAND, BOUCK & LEE, INC.
 engineers, scientists, economists

FIGURE
1



- LEGEND:**
- EDGE OF WATER
 - - - UNPAVED ROADWAY OR TRAIL
 - ~ VEGETATION
 - - - PROPERTY BOUNDARY
 - 18-23-6 PROPERTY ID
 - STREAMS WITH INTERMITTENT FLOW
 - FORMER OXBOW/LOW LYING AREA
 - APPROXIMATE ORIGINAL REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
 - MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES 18-23-4 AND 18-24-5 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
 - GAS LINE (APPROXIMATE LOCATION)
 - SANITARY SEWER LINE (APPROXIMATE LOCATION)
 - STORM DRAIN LINE (APPROXIMATE LOCATION)
 - WATER LINE (APPROXIMATE LOCATION)
 - 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)
 - EPA SOIL BORING LOCATION
 - SAMPLING LOCATION FROM ELM STREET MOBIL INVESTIGATIONS
 - ▲ SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
 - SUPPLEMENTAL SOIL BORING LOCATION
 - ▲ ADDITIONAL SUPPLEMENTAL SURFACE SOIL SAMPLE LOCATION
 - SOIL BORING LOCATION SAMPLED AS PART OF PRE-DESIGN AND SUPPLEMENTAL SOIL INVESTIGATIONS
 - 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:**
- THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
 - TAX ASSESSOR'S PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE ON AUGUST 22, 2002.
 - UTILITY LOCATION INFORMATION OBTAINED FROM CITY OF PITTSFIELD ENGINEER'S OFFICE ON AUGUST 22, 2002.
 - PROPERTY USE DESIGNATIONS REFLECT CURRENT AND FORESEEABLE FUTURE USE.
 - WATER TREATMENT PLANT FOOTPRINT BASED ON MAP SUBMITTED TO BBL BY WESTON ON JULY 3, 2002.
 - 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.



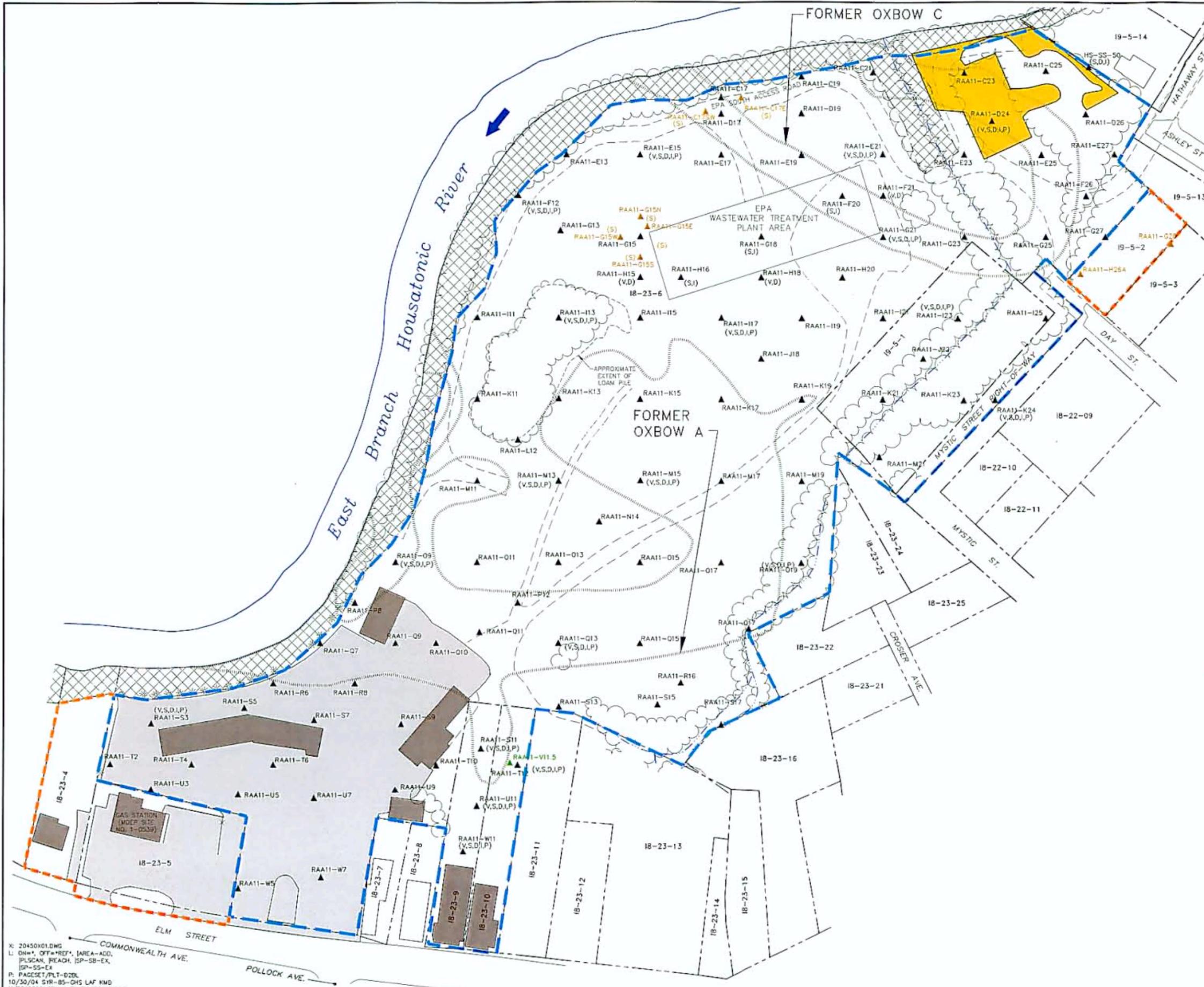
**GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C**

**EXISTING PCB SOIL SAMPLE
LOCATIONS**

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

FIGURE
2

X: 20450X01.DWG
L: ON=*, OFF=REF*, JAREA,
[REACH, ISP=SS-EX
P: PAGESET/PLT-DL
10/30/04 SYR-B5-GHS LAF KMD
N/20450001/SUMMARY/20450002.DWG



- LEGEND:**
- APPROXIMATE ORIGINAL REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
 - - - MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES 18-23-4 AND 18-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDRESSING PCBs ONLY)
 - EDGE OF WATER
 - - - UNPAVED ROADWAY OR TRAIL
 - VEGETATION
 - - - PROPERTY BOUNDARY
 - IB-23-E 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
 - ▲ 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



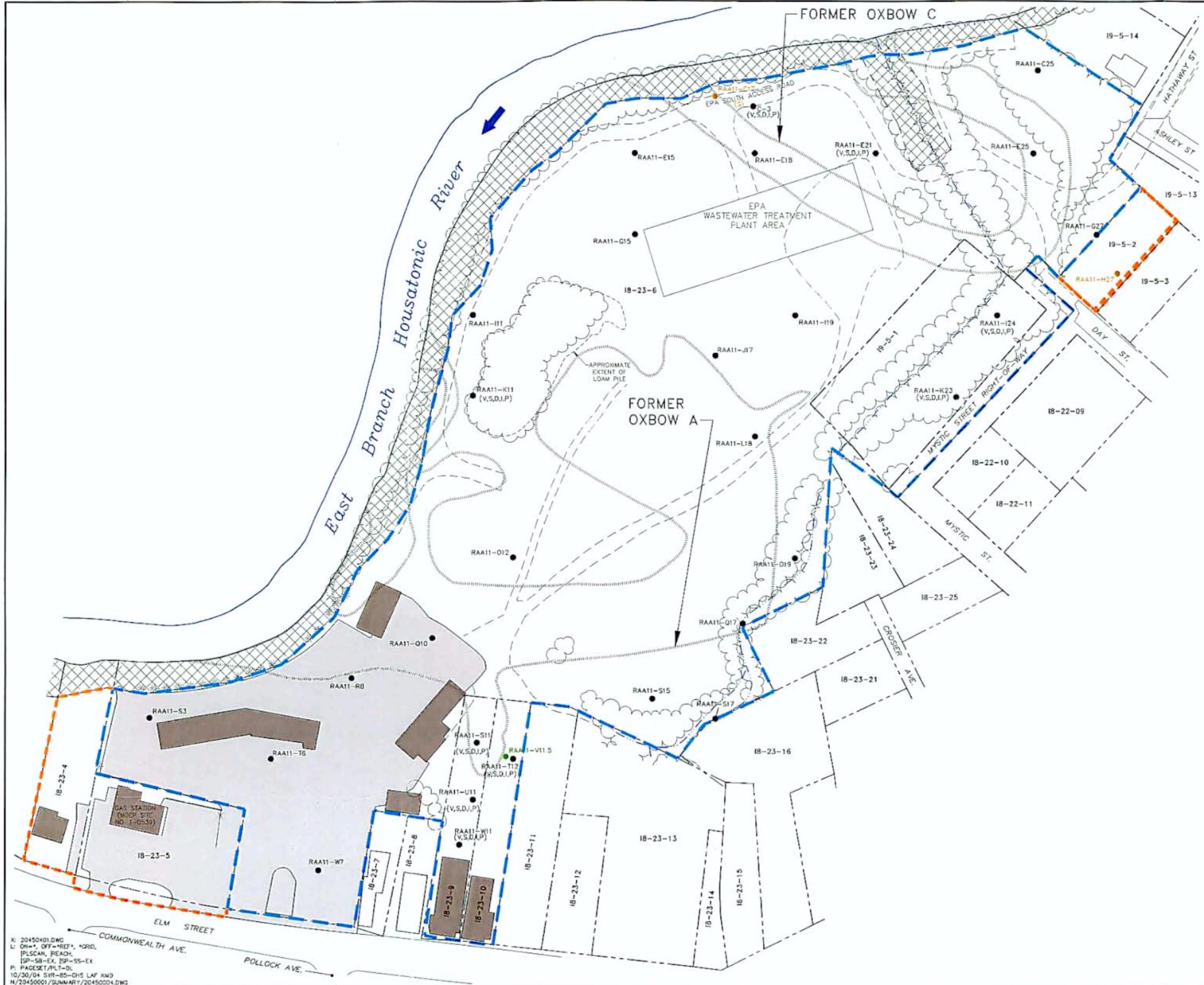
GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C

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

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

FIGURE
3

X: 2045001.DWG
 L: 01/04/04 OFF+REF* AREA-ADD
 PLS CAN, REACH, ISP-SB-EX,
 ISP-S5-EX
 P: PAGESET/PLT-D2BL
 10/30/04 51R-B5-DHS LAF KMD
 N/20450001/SUMMARY/20450003.DWG



- LEGEND:**
- APPROXIMATE ORIGINAL REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
 - - - MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES 18-23-4 AND 18-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDRESSING PCBs ONLY)
 - EDGE OF WATER
 - - - UNPAVED ROADWAY OR TRAIL
 - ~~~~~ VEGETATION
 - - - PROPERTY BOUNDARY
 - 18-23-6 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
 - ADDITIONAL SUPPLEMENTAL SOIL BORING 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.
 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

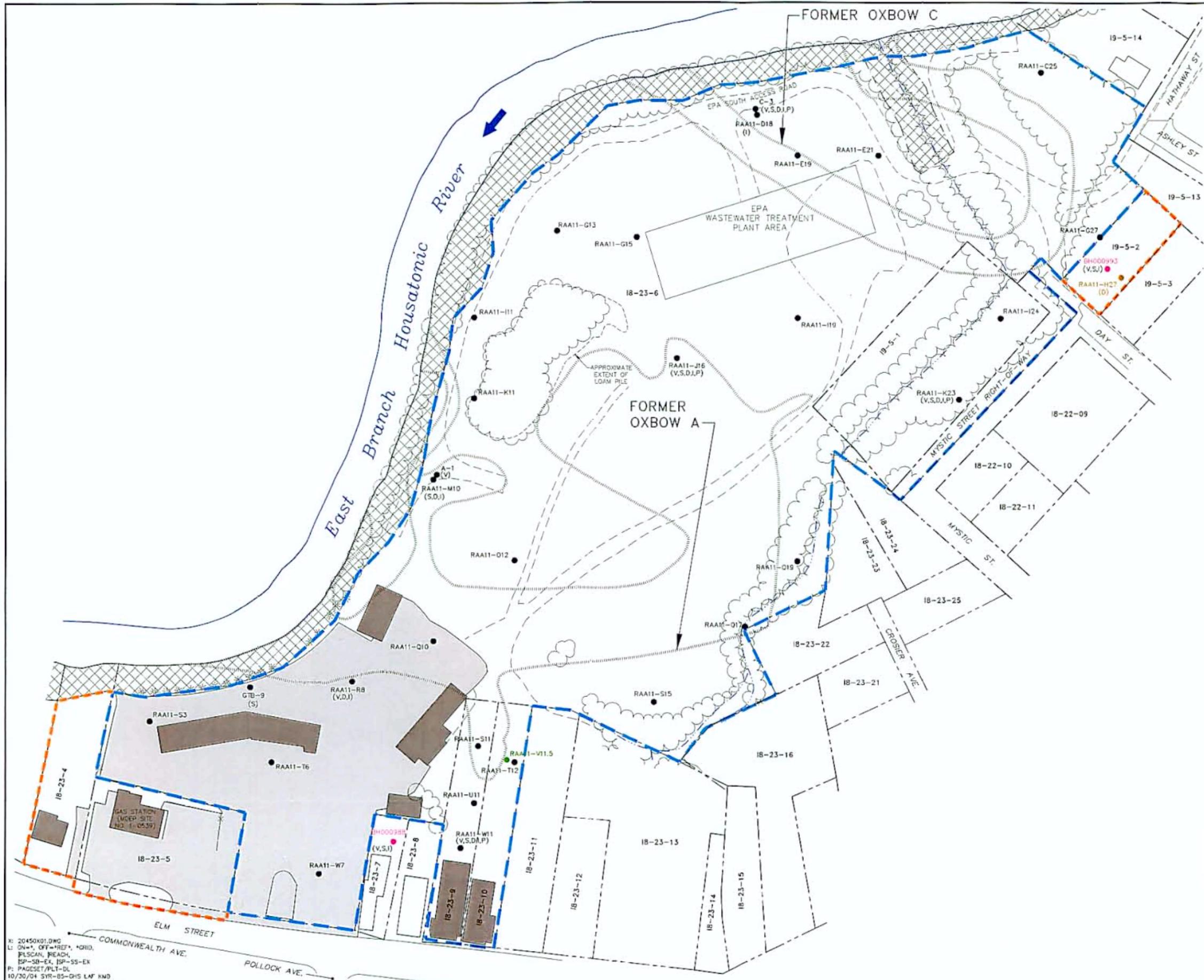


GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C
EXISTING APPENDIX IX+3 SOIL
SAMPLING LOCATIONS
(1- TO 3-FOOT DEPTH INTERVAL)


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

FIGURE
4

X: 2045001.DWG
 L: ON=*, OFF=REF*, *GRID,
 PLSCAN, REACH,
 ISP=SB-EX, ISP=SS-EX
 P: PAGESET/PLT-DL
 10/30/04 5:18:55 CHS LAF KMD
 N/20450001/SUMMARY/20450004.DWG



- LEGEND:**
- APPROXIMATE ORIGINAL REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
 - - - MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES 18-23-4 AND 18-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDRESSING PCBs ONLY)
 - EDGE OF WATER
 - - - UNPAVED ROADWAY OR TRAIL
 - ~ VEGETATION
 - - - PROPERTY BOUNDARY
 - IB-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
 - EPA SOIL BORING LOCATION
 - SUPPLEMENTAL SOIL BORING LOCATION
 - ADDITIONAL SUPPLEMENTAL SOIL BORING 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

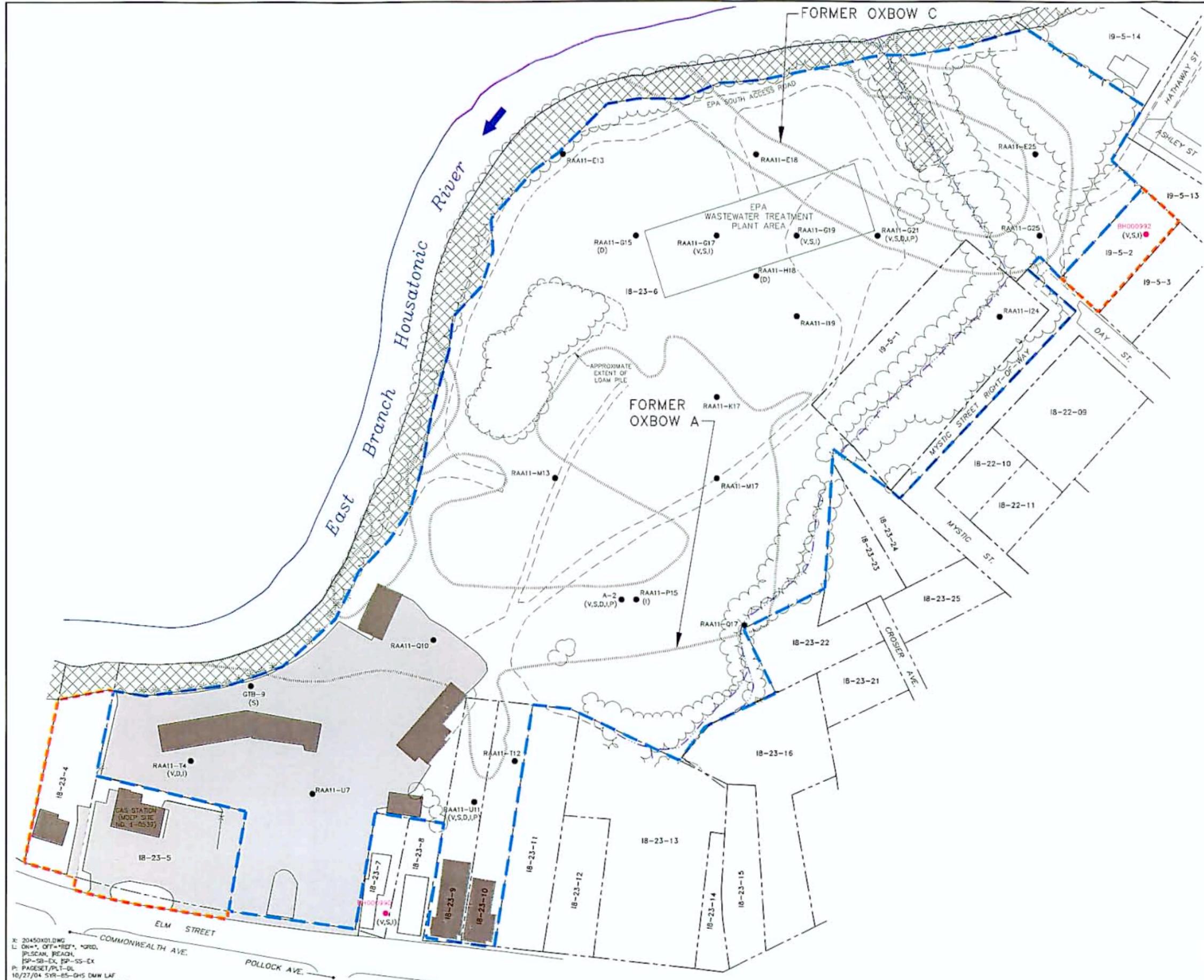


**GENERAL ELECTRIC COMPANY
 PITTSFIELD MASSACHUSETTS
 FORMER OXBOW AREAS A AND C**

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

FIGURE
5

X: 2045001.DWG
 L: ON=*, OFF=REF*, GRID,
 PLSCAN, REACH,
 ESP-SB-EX, ISP-SS-EX
 P: PAGESET/PLT-DL
 10/30/04 SYR-QS-QHS LAF KMD
 N/2045001/SUMMARY/2045005.DWG



- LEGEND:**
- APPROXIMATE ORIGINAL REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
 - - - MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES IB-23-4 AND IB-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDRESSING PCBs ONLY)
 - EDGE OF WATER
 - - - UNPAVED ROADWAY OR TRAIL
 - ~ ~ ~ VEGETATION
 - - - PROPERTY BOUNDARY
 - IB-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
 - EPA SOIL BORING LOCATION

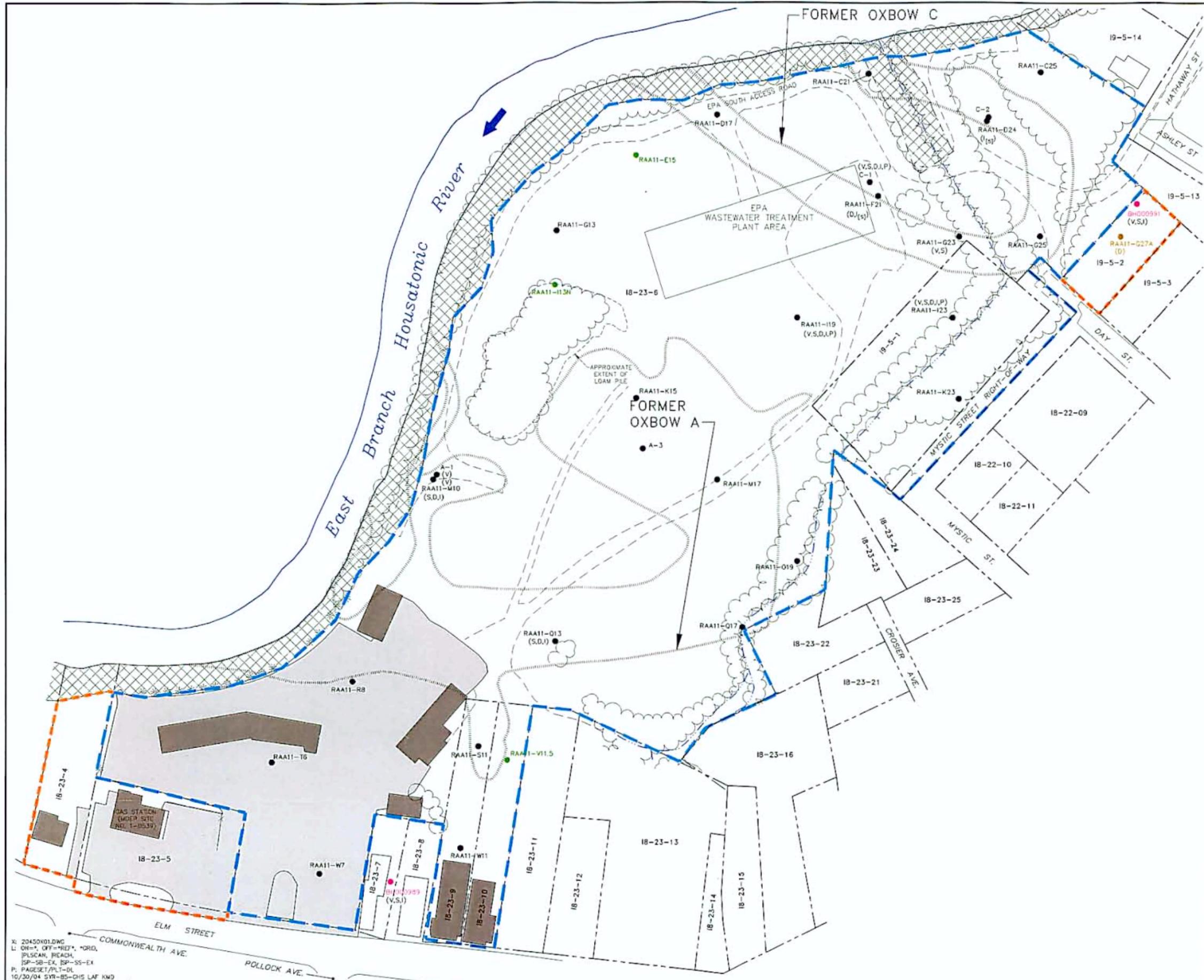
- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
 2. TAX ASSESSOR'S PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE ON AUGUST 22, 2002.
 3. PROPERTY USE DESIGNATIONS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



**GENERAL ELECTRIC COMPANY
 PITTSFIELD MASSACHUSETTS
 FORMER OXBOW AREAS A AND C**
**EXISTING APPENDIX IX+3 SOIL
 SAMPLING LOCATIONS
 (6- TO 10-FOOT DEPTH INTERVAL)**

FIGURE
6

X: 20450X01.DWG
 L: ON=*, OFF=*REF*, *ORD.
 P: PLSCAN, REACH,
 SP-SB-EX, SP-SS-EX
 P: PAGESET/PLT-DL
 10/27/04 SYR-05-GHS DMW LAF
 N/20450001/SUMMARY/20450008.DWG



- LEGEND:**
- APPROXIMATE ORIGINAL REMOVAL ACTION AREA BOUNDARY (AS DEFINED IN STATEMENT OF WORK)
 - - - MODIFIED REMOVAL ACTION AREA BOUNDARY (PROPERTIES IB-23-4 AND IB-24-5 ARE BEING ADDED TO THE RAA FOR THE PURPOSE OF ADDRESSING PCBs ONLY)
 - EDGE OF WATER
 - - - UNPAVED ROADWAY OR TRAIL
 - ~ VEGETATION
 - - - PROPERTY BOUNDARY
 - IB-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
 - EPA SOIL BORING LOCATION
 - SUPPLEMENTAL SOIL BORING LOCATION
 - ADDITIONAL SUPPLEMENTAL SOIL BORING 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
 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 REACH REMOVAL ACTION - FIRST REACH ENVIRONMENTAL REMEDIATION CONTRACT DRAWING NO. 4 AND 5, DATED NOVEMBER 30, 2002.
 6. SOIL SAMPLES INCLUDE ALL OF THE FOLLOWING APPENDIX IX+3 CONSTITUENTS (EXCEPT PESTICIDES 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
 7. ((S)) = SAMPLE WAS COLLECTED FOR SULFIDE ANALYSIS ONLY.



GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS
FORMER OXBOW AREAS A AND C
EXISTING APPENDIX IX+3 SOIL
SAMPLING LOCATIONS
(10- TO 15-FOOT DEPTH INTERVAL)


FIGURE
7

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

X: 20450X01.DWG
 L: ON=*, OFF=*RET*, *GRID,
 PLSCAN, REACH,
 ISP-SB-EX, ISP-SS-EX
 P: PAGESET/PLT-DL
 10/30/04 GYR-SS-CHS LAF KWD
 H/20450001/SUMMARY/20450007.DWG

Attachments

Attachment A

Soil Boring Logs

Date Start/Finish: 7/28/04 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: 532143.8 Easting: 130311.0 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 982.0 Descriptions By: SLL	Boring ID: RAA11-C17 Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0							Pre-probe to 1' bgs.	
980		1	1-3	1.2	0.0		Brown fine to medium SAND, some coarse Sand, little fine gravel, moist.	 Borehole backfilled with Bentonite.
975								
970								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 1-3': SVOCs; Duplicate Sample ID: RAA11-DUP-4 (SVOCs, 1-3'); MS/MSD Collected (SVOCs, 1-3').
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Date Start/Finish: 7/28/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 532144.2 Easting: 130336.1 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 983.1 Descriptions By: SLL	Boring ID: RAA11-C17E Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
0		1	0-1	0.7	0.6		Dark brown fine to medium SAND, little coarse Sand, fine Gravel, and Silt, moist.	 Borehole backfilled with Bentonite.
980								
5								
975								
10								
970								
15								



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

Date Start/Finish: 7/28/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 532127.1 Easting: 130292.4 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 983.5 Descriptions By: SLL	Boring ID: RAA11-C17SW Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
0		1	0-1	0.6	0.8		Brown fine to coarse SAND, little Silt, trace gravel, moist.	 Borehole backfilled with Bentonite.
980								
5								
975								
10								
970								
15								



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

Date Start/Finish: 7/28/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 531986.4 Easting: 130219.2 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 983.9 Descriptions By: SLL	Boring ID: RAA11-G15E Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
0		1	0-1	0.5	12.8		Dark gray-brown fine to coarse SAND, little Gravel and Silt, moist.	 Borehole backfilled with Bentonite.
980								
5								
975								
10								
970								
15								



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

Date Start/Finish: 7/28/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 531998.8 Easting: 130210.9 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 983.0 Descriptions By: SLL	Boring ID: RAA11-G15N Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
0		1	0-1	0.7	6.5		Brown fine to medium SAND, little coarse Sand, Silt, and fine Gravel, moist.	 Borehole backfilled with Bentonite.
980								
5								
975								
10								
970								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 0-1': SVOCs.
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Date Start/Finish: 7/28/04
 Drilling Company: BBL
 Driller's Name: JJB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Slide Hammer
 Sample Method: 2' Macrocore

Northing: 531949.1
 Easting: 130210.3
 Casing Elevation: NA
 Borehole Depth: 1' below grade
 Surface Elevation: 983.9
 Descriptions By: SLL

Boring ID: RAA11-G15S
 Client: General Electric Company
 Location: Former Oxbow Areas A and C
 Additional 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	0.7	28.8		Brown fine to medium SAND, little coarse Sand and fine Gravel, moist.	 Borehole backfilled with Bentonite.
980								
5								
975								
10								
970								
15								



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

Date Start/Finish: 7/28/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 531973.5 Easting: 130186.1 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 984.0 Descriptions By: SLL	Boring ID: RAA11-G15W Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
0		1	0-1	0.5	0.6		Dark brown fine to coarse SAND, little Silt and Gravel, moist.	 Borehole backfilled with Bentonite.
980								
5								
975								
10								
970								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 0-1': SVOCs.
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Date Start/Finish: 7/28/04 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: 531974.5 Easting: 130807.5 Casing Elevation: NA Borehole Depth: 15' below grade Surface Elevation: 981.1 Descriptions By: SLL	Boring ID: RAA11-G27A Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0							Pre-probe to 10' bgs.	
980								Borehole backfilled with Bentonite.
5								
975								
10								
970		1	10-12	1.0	0.0		Gray-brown fine SAND, wet.	
							Orange-brown fine SAND, wet.	
							Brown fine SAND, wet.	
		2	12-14	3.0	0.0			
							Brown fine SAND, little medium Sand, trace coarse sand, wet.	
15		3	14-15	0.0	0.0			

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 10-15': PCDDs/PCDFs; Duplicate Sample ID: RAA11-DUP-1 (PCDDs/PCDFs, 10-15'); MS/MSD Collected (PCDDs/PCDFs, 10-15').
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Date Start/Finish: 7/28/04
 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: 531965.3
 Easting: 130865.2
 Casing Elevation: NA
 Borehole Depth: 1' below grade
 Surface Elevation: 987.4
 Descriptions By: SLL

Boring ID: RAA11-G28
 Client: General Electric Company
 Location: Former Oxbow Areas A and C
 Additional 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	1.0	0.0		Dark brown fine SAND and SILT, little Organic Material, moist.	 Borehole backfilled with Bentonite.
							Brown fine SAND, little medium to coarse Sand, dry.	
985								
5								
980								
10								
975								
15								



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: 0-1': VOCs, SVOCs, PCDDs/PCDFs, Inorganics;
 Duplicate Sample ID: RAA11-DUP-3 (VOCs, 0-1');
 MS/MSD Collected (Inorganics, 0-1').

Date Start/Finish: 7/28/04 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: 531928.5 Easting: 130753.3 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 981.5 Descriptions By: SLL	Boring ID: RAA11-H26A Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/In/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0		1	0-1	1.0	0.0		Brown fine SAND, little Silt, coarse to medium sand and organic material.	 Borehole backfilled with Bentonite.
980								
5								
975								
10								
970								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 0-1': VOCs, SVOCs, PCDDs/PCDFs, Inorganics; MS/MSD Collected (VOCs, 0-1').
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Date Start/Finish: 7/28/04 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: 531926.0 Easting: 130809.6 Casing Elevation: NA Borehole Depth: 6.0' below grade Surface Elevation: 983.5 Descriptions By: SLL	Boring ID: RAA11-H27 Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/in/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
0		1	0-1		NA		Dark brown fine SAND and SILT, some Organic Material, moist.	 Borehole backfilled with Bentonite.
		2	1-3	2.4	0.0		Brown fine SAND, little medium to coarse Sand, fine gravel, dry.	
980		3	3-4		0.0			
5		4	4-6	2.0	0.0		Brown fine to medium SAND, little coarse Sand, trace fine gravel, dry.	
975								
10								
970								
15								



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: 1-3': VOCs, SVOCs, PCDD's/PCDF's, Inorganics; 3-6': PCDD's/PCDF's;
 Duplicate Sample ID: RAA11-DUP-2 (Inorganics, 1-3').

Date Start/Finish: 8/4/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 531111.8 Easting: 129543.7 Casing Elevation: NA Borehole Depth: 1' below grade. Surface Elevation: 992.3 Descriptions By: SLL	Boring ID: SROW-1 Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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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 fine SAND, little Silt, trace coarse to medium sand, fine gravel, and organic material, dry.	 Borehole backfilled with Bentonite.
990								
5								
985								
10								
980								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 0-1': PCBs; 1-3': PCBs (analysis on hold); Duplicate Sample ID: RAA11-DUP-5 (PCBs, 0-1').
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Date Start/Finish: 8/4/04
 Drilling Company: BBL
 Driller's Name: JJB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor Mounted Power Probe
 Sample Method: 2' Macrocore

Northing: 531109.5
 Easting: 129568.7
 Casing Elevation: NA

Borehole Depth: 15' below grade.
 Surface Elevation: 992.3

Descriptions By: SLL

Boring ID: SROW-2

Client: General Electric Company

Location: Former Oxbow Areas A and C
 Additional 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, little coarse to medium Sand, trace fine gravel, organic material, moist.	Borehole backfilled with Bentonite.
		2	1-3	2.6	0.0		Brown fine SAND, little Silt and coarse to medium Sand, trace fine gravel, moist.	
990		3	3-5		0.0		Brown fine SAND and SILT, little coarse to medium Sand and fine to medium Gravel, poorly sorted, moist.	
5		4	5-7	2.3	0.0			
985		5	7-9		0.0		Same as above, wet, more compact with depth.	
10		6	9-11	3.4	0.0			
980		7	11-13		0.0		Same as above, wet, tight.	
		8	13-15	2.4	0.0			
15								



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: 0-1': PCBs; 1-3': PCBs (analysis on hold); 3-5': PCBs (analysis on hold);
 5-7': PCBs (analysis on hold); 7-9': PCBs (analysis on hold);
 9-11': PCBs (analysis on hold); 11-15': PCBs (analysis on hold).

Date Start/Finish: 8/4/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 531104.9 Easting: 129593.8 Casing Elevation: NA Borehole Depth: 1' below grade. Surface Elevation: 992.2 Descriptions By: SLL	Boring ID: SROW-3 Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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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 fine SAND and SILT, little coarse to medium Sand and Organic Material, moist.	 Borehole backfilled with Bentonite.
990								
5								
985								
10								
980								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 0-1': PCBs; MS/MSD collected (PCBs, 0-1').
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Date Start/Finish: 8/4/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Tractor Mounted Power Probe Sample Method: 2' Macrocore	Northing: 531100.3 Easting: 129617.8 Casing Elevation: NA Borehole Depth: 15' below grade. Surface Elevation: 992.3 Descriptions By: SLL	Boring ID: SROW-4 Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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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, little Silt, coarse to medium Sand, and Organic Material, moist. Brown fine SAND, some Silt, little coarse to medium sand and fine gravel, trace coarse to medium gravel, moist.	Borehole backfilled with Bentonite.
990		2	1-3	2.0	0.0			
		3	3-5		0.0		Brown fine SAND and SILT, little coarse to medium Sand, moist.	
5		4	5-7	2.6	0.0			
985		5	7-9		0.0		Same as above, trace gravel and cobble, wet.	
10		6	9-11	2.0	0.0			
980		7	11-13		0.0		No recovery.	
		8	13-15		0.0		NA	
15								



Remarks: bgs = below ground surface; NA = Not Applicable/Available.
 Analyses: 0-1': PCBs; 1-3': PCBs (analysis on hold); 3-5': PCBs (analysis on hold);
 5-7': PCBs (analysis on hold); 7-9': PCBs (analysis on hold);
 9-11': PCBs (analysis on hold); 11-15': PCBs (analysis on hold).

Date Start/Finish: 8/4/04 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Slide Hammer Sample Method: 2' Macrocore	Northing: 531096.3 Easting: 129642.5 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: 992.4 Descriptions By: SLL	Boring ID: SROW-5 Client: General Electric Company Location: Former Oxbow Areas A and C Additional Supplemental Soil Sampling
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995								
0		1	0-1	0.9	0.0		Dark brown fine SAND and SILT, little coarse to medium Sand, trace fine gravel, organic material, moist.	 Borehole backfilled with Bentonite.
990								
5								
985								
10								
980								
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers, scientists, economists</i>	Remarks: bgs = below ground surface; NA = Not Applicable/Available. Analyses: 0-1': PCBs.
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Attachment B

Appendix IX+3 Soil Analytical Results

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

ADDITIONAL 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-C17 1-3 07/28/04	RAA11-C17E 0-1 07/28/04	RAA11-C17SW 0-1 07/28/04	RAA11-G15E 0-1 07/28/04	RAA11-G15N 0-1 07/28/04	RAA11-G15S 0-1 07/28/04	RAA11-G15W 0-1 07/28/04
Volatile Organics							
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA
3-Chloropropene	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA
Acetonitrile	NA	NA	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA
Ethyl Methacrylate	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA
Iodomethane	NA	NA	NA	NA	NA	NA	NA
Isobutanol	NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA	NA	NA	NA
Methyl Methacrylate	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA
Propionitrile	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organics							
1,2,4,5-Tetrachlorobenzene	ND(0.38) J [ND(0.37) J]	ND(0.39) J	ND(0.38) J	ND(0.39) J	ND(0.40) J	ND(0.38) J	ND(0.43) J
1,2,4-Trichlorobenzene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
1,2-Dichlorobenzene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
1,2-Diphenylhydrazine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
1,3,5-Trinitrobenzene	ND(0.38) J [ND(0.37) J]	ND(0.39) J	ND(0.38) J	ND(0.39) J	ND(0.40) J	ND(0.38) J	ND(0.43) J
1,3-Dichlorobenzene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
1,3-Dinitrobenzene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
1,4-Dichlorobenzene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
1,4-Naphthoquinone	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
1-Naphthylamine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
2,3,4,6-Tetrachlorophenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2,4,5-Trichlorophenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2,4,6-Trichlorophenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)

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

ADDITIONAL 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-C17 1-3 07/28/04	RAA11-C17E 0-1 07/28/04	RAA11-C17SW 0-1 07/28/04	RAA11-G15E 0-1 07/28/04	RAA11-G15N 0-1 07/28/04	RAA11-G15S 0-1 07/28/04	RAA11-G15W 0-1 07/28/04
Semivolatile Organics (continued)							
2,4-Dichlorophenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2,4-Dimethylphenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2,4-Dinitrophenol	ND(1.9) [ND(1.9)]	ND(2.0)	ND(1.9)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.2)
2,4-Dinitrotoluene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2,6-Dichlorophenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2,6-Dinitrotoluene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2-Acetylaminofluorene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
2-Chloronaphthalene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2-Chlorophenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2-Methylnaphthalene	0.082 J [ND(0.37)]	ND(0.39)	ND(0.38)	11	ND(0.40)	0.41	0.88
2-Methylphenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
2-Naphthylamine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
2-Nitroaniline	ND(1.9) [ND(1.9)]	ND(2.0)	ND(1.9)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.2)
2-Nitrophenol	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
2-Picoline	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
3&4-Methylphenol	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	0.26 J
3,3'-Dichlorobenzidine	ND(0.76) J [ND(0.75) J]	ND(0.79) J	ND(0.77) J	ND(0.78) J	ND(0.80) J	ND(0.77) J	ND(0.87) J
3,3'-Dimethylbenzidine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
3-Methylcholanthrene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
3-Nitroaniline	ND(1.9) [ND(1.9)]	ND(2.0)	ND(1.9)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.2)
4,6-Dinitro-2-methylphenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
4-Aminobiphenyl	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
4-Bromophenyl-phenylether	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
4-Chloro-3-Methylphenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
4-Chloroaniline	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
4-Chlorobenzilate	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
4-Chlorophenyl-phenylether	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
4-Nitroaniline	ND(1.9) [ND(1.9)]	ND(2.0)	ND(1.9)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.2)
4-Nitrophenol	ND(1.9) J [ND(1.9) J]	ND(2.0) J	ND(1.9) J	ND(2.0) J	ND(2.0) J	ND(2.0) J	ND(2.2) J
4-Nitroquinoline-1-oxide	ND(0.76) J [ND(0.75) J]	ND(0.79) J	ND(0.77) J	ND(0.78) J	ND(0.80) J	ND(0.77) J	ND(0.87) J
4-Phenylenediamine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
5-Nitro-o-tolidine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
7,12-Dimethylbenz(a)anthracene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
a,a'-Dimethylphenethylamine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Acenaphthene	0.17 J [0.10 J]	0.22 J	ND(0.38)	12	ND(0.40)	ND(0.38)	1.6
Acenaphthylene	0.91 [0.43]	1.1	0.21 J	21	1.8	3.0	11
Acetophenone	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Aniline	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Anthracene	0.91 [0.39]	0.75	ND(0.38)	41	1.3	2.1	10
Aramite	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Benzidine	ND(0.76) J [ND(0.75) J]	ND(0.79) J	ND(0.77) J	ND(0.78) J	ND(0.80) J	ND(0.77) J	ND(0.87) J
Benzo(a)anthracene	2.2 J [1.1 J]	1.5	0.087 J	64	3.4	3.5	20
Benzo(a)pyrene	1.5 [0.87]	1.3	0.082 J	38	2.6	2.7	8.5
Benzo(b)fluoranthene	1.3 [0.60]	1.2	ND(0.38)	30	2.3	2.3	13
Benzo(g,h,i)perylene	1.2 [0.62]	1.0	ND(0.38)	23	1.8	2.1	7.5
Benzo(k)fluoranthene	1.4 [1.0]	1.0	ND(0.38)	35	2.4	2.5	14
Benzyl Alcohol	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
bis(2-Chloroethoxy)methane	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
bis(2-Chloroethyl)ether	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
bis(2-Chloroisopropyl)ether	ND(0.38) J [ND(0.37) J]	ND(0.39) J	ND(0.38) J	ND(0.39) J	ND(0.40) J	ND(0.38) J	ND(0.43) J
bis(2-Ethylhexyl)phthalate	ND(0.37) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.43)
Butylbenzylphthalate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Chrysene	2.4 J [1.3 J]	1.5	0.087 J	64	3.6	3.5	21
Diallate	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Dibenzo(a,h)anthracene	0.32 J [0.27 J]	0.25 J	ND(0.38)	7.0	0.59	0.69	2.7
Dibenzofuran	0.094 J [ND(0.37)]	ND(0.39)	ND(0.38)	13	ND(0.40)	0.36 J	1.5
Diethylphthalate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Dimethylphthalate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Di-n-Butylphthalate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Di-n-Octylphthalate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Diphenylamine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Ethyl Methanesulfonate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Fluoranthene	4.7 J [2.4 J]	2.4	0.13 J	180	6.9	6.8	44
Fluorene	0.29 J [0.12 J]	0.14 J	ND(0.38)	33	0.43	0.51	3.4
Hexachlorobenzene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Hexachlorobutadiene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Hexachlorocyclopentadiene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Hexachloroethane	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Hexachlorophene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)

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

ADDITIONAL 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-C17 1-3 07/28/04	RAA11-C17E 0-1 07/28/04	RAA11-C17SW 0-1 07/28/04	RAA11-G15E 0-1 07/28/04	RAA11-G15N 0-1 07/28/04	RAA11-G15S 0-1 07/28/04	RAA11-G15W 0-1 07/28/04
Semivolatile Organics (continued)							
Hexachloropropene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Indeno(1,2,3-cd)pyrene	0.90 [0.51]	0.82	ND(0.38)	20	1.6	1.7	6.5
Isodrin	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Isophorone	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Isosafrole	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Methapyrilene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Methyl Methanesulfonate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Naphthalene	0.098 J [0.077 J]	0.083 J	ND(0.38)	18	0.18 J	0.45	1.1
Nitrobenzene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
N-Nitrosodiethylamine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
N-Nitrosodimethylamine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
N-Nitroso-di-n-butylamine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
N-Nitroso-di-n-propylamine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
N-Nitrosodiphenylamine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
N-Nitrosomethylethylamine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
N-Nitrosomorpholine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
N-Nitrosopiperidine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
N-Nitrosopyrrolidine	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
o,o,-Triethylphosphorothioate	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
o-Toluidine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
p-Dimethylaminoazobenzene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Pentachlorobenzene	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Pentachloroethane	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Pentachloronitrobenzene	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Pentachlorophenol	ND(1.9) [ND(1.9)]	ND(2.0)	ND(1.9)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.2)
Phenacetin	ND(0.76) [ND(0.75)]	ND(0.79)	ND(0.77)	ND(0.78)	ND(0.80)	ND(0.77)	ND(0.87)
Phenanthrene	1.8 [0.84]	0.81	ND(0.38)	170	2.9	3.2	22
Phenol	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	0.82	ND(0.40)	ND(0.38)	ND(0.43)
Pronamide	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Pyrene	4.2 J [2.2 J]	2.4	0.14 J	120	6.5	5.8	37
Pyridine	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Safrole	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Thionazin	ND(0.38) [ND(0.37)]	ND(0.39)	ND(0.38)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.43)
Furans							
2,3,7,8-TCDF	NA	NA	NA	NA	NA	NA	NA
TCDFs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	NA	NA	NA	NA	NA	NA
PeCDFs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	NA	NA	NA
HxCDFs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	NA	NA	NA
HpCDFs (total)	NA	NA	NA	NA	NA	NA	NA
OCDF	NA	NA	NA	NA	NA	NA	NA
Dioxins							
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA
TCDDs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	NA	NA	NA	NA	NA	NA	NA
PeCDDs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	NA	NA	NA
HxCDDs (total)	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	NA	NA	NA
HpCDDs (total)	NA	NA	NA	NA	NA	NA	NA
OCDD	NA	NA	NA	NA	NA	NA	NA
Total TEQs (WHO TEFs)	NA	NA	NA	NA	NA	NA	NA

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

ADDITIONAL 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-C17	RAA11-C17E	RAA11-C17SW	RAA11-G15E	RAA11-G15N	RAA11-G15S	RAA11-G15W
Sample Depth(Feet):	1-3	0-1	0-1	0-1	0-1	0-1	0-1
Parameter Date Collected:	07/28/04	07/28/04	07/28/04	07/28/04	07/28/04	07/28/04	07/28/04
Inorganics							
Antimony	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA
Sulfide	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA

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

ADDITIONAL 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-G27A 10-15 07/28/04	RAA11-G28 0-1 07/28/04	RAA11-H26A 0-1 07/28/04	RAA11-H27 1-3 07/28/04	RAA11-H27 3-6 07/28/04
Volatile Organics					
1,1,1,2-Tetrachloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,1,1-Trichloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,1,2,2-Tetrachloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,1,2-Trichloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,1-Dichloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,2-Dichloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,2,3-Trichloropropane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,2-Dibromo-3-chloropropane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,2-Dibromoethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,2-Dichloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,2-Dichloropropane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
1,4-Dioxane	NA	ND(0.12) J [ND(0.12) J]	ND(0.12) J	ND(0.11) J	NA
2-Butanone	NA	ND(0.012) J [ND(0.012) J]	ND(0.012) J	ND(0.011) J	NA
2-Chloro-1,3-butadiene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
2-Chloroethylvinylether	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
2-Hexanone	NA	ND(0.012) [ND(0.012)]	ND(0.012)	ND(0.011)	NA
3-Chloropropene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
4-Methyl-2-pentanone	NA	ND(0.012) J [ND(0.012) J]	ND(0.012) J	ND(0.011) J	NA
Acetone	NA	ND(0.024) J [ND(0.023) J]	ND(0.024) J	ND(0.021) J	NA
Acetonitrile	NA	ND(0.12) J [ND(0.12) J]	ND(0.12) J	ND(0.11) J	NA
Acrolein	NA	ND(0.12) J [ND(0.12) J]	ND(0.12) J	ND(0.11) J	NA
Acrylonitrile	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Benzene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Bromodichloromethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Bromoform	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Bromomethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Carbon Disulfide	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Carbon Tetrachloride	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Chlorobenzene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Chloroethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Chloroform	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Chloromethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
cis-1,3-Dichloropropene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Dibromochloromethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Dibromomethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Dichlorodifluoromethane	NA	ND(0.0061) J [ND(0.0058) J]	ND(0.0059) J	ND(0.0053) J	NA
Ethyl Methacrylate	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Ethylbenzene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Iodomethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Isobutanol	NA	ND(0.12) J [ND(0.12) J]	ND(0.12) J	ND(0.11) J	NA
Methacrylonitrile	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Methyl Methacrylate	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Methylene Chloride	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Propionitrile	NA	ND(0.012) J [ND(0.012) J]	ND(0.012) J	ND(0.011) J	NA
Styrene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Tetrachloroethene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Toluene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
trans-1,2-Dichloroethene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
trans-1,3-Dichloropropene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
trans-1,4-Dichloro-2-butene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Trichloroethene	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Trichlorofluoromethane	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Vinyl Acetate	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Vinyl Chloride	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Xylenes (total)	NA	ND(0.0061) [ND(0.0058)]	ND(0.0059)	ND(0.0053)	NA
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	ND(0.41) J	ND(0.39) J	ND(0.35) J	NA
1,2,4-Trichlorobenzene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
1,2-Dichlorobenzene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
1,2-Diphenylhydrazine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
1,3,5-Trinitrobenzene	NA	ND(0.41) J	ND(0.39) J	ND(0.35) J	NA
1,3-Dichlorobenzene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
1,3-Dinitrobenzene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
1,4-Dichlorobenzene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
1,4-Naphthoquinone	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
1-Naphthylamine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
2,3,4,6-Tetrachlorophenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2,4,5-Trichlorophenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2,4,6-Trichlorophenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA

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

ADDITIONAL 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-G27A 10-15 07/28/04	RAA11-G28 0-1 07/28/04	RAA11-H26A 0-1 07/28/04	RAA11-H27 1-3 07/28/04	RAA11-H27 3-6 07/28/04
Semivolatle Organics (continued)					
2,4-Dichlorophenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2,4-Dimethylphenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2,4-Dinitrophenol	NA	ND(2.1)	ND(2.0)	ND(1.8)	NA
2,4-Dinitrotoluene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2,6-Dichlorophenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2,6-Dinitrotoluene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2-Acetylaminofluorene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
2-Chloronaphthalene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2-Chlorophenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2-Methylnaphthalene	NA	ND(0.41)	ND(0.39)	0.11 J	NA
2-Methylphenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
2-Naphthylamine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
2-Nitroaniline	NA	ND(2.1)	ND(2.0)	ND(1.8)	NA
2-Nitrophenol	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
2-Picoline	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
3&4-Methylphenol	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
3,3'-Dichlorobenzidine	NA	ND(0.82) J	ND(0.79) J	ND(0.71) J	NA
3,3'-Dimethylbenzidine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
3-Methylcholanthrene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
3-Nitroaniline	NA	ND(2.1)	ND(2.0)	ND(1.8)	NA
4,6-Dinitro-2-methylphenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
4-Aminobiphenyl	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
4-Bromophenyl-phenylether	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
4-Chloro-3-Methylphenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
4-Chloroaniline	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
4-Chlorobenzilate	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
4-Chlorophenyl-phenylether	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
4-Nitroaniline	NA	ND(2.1)	ND(2.0)	ND(1.8)	NA
4-Nitrophenol	NA	ND(2.1) J	ND(2.0) J	0.24 J	NA
4-Nitroquinoline-1-oxide	NA	ND(0.82) J	ND(0.79) J	ND(0.71) J	NA
4-Phenylenediamine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
5-Nitro-o-toluidine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
7,12-Dimethylbenz(a)anthracene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
a,a'-Dimethylphenethylamine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Acenaphthene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Acenaphthylene	NA	0.11 J	2.4	1.7	NA
Acetophenone	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Aniline	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Anthracene	NA	ND(0.41)	1.9	1.9	NA
Aramite	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Benzidine	NA	ND(0.82) J	ND(0.79) J	ND(0.71) J	NA
Benzo(a)anthracene	NA	0.088 J	4.9	4.1	NA
Benzo(a)pyrene	NA	ND(0.41)	3.2	2.2	NA
Benzo(b)fluoranthene	NA	ND(0.41)	3.0	1.8	NA
Benzo(g,h,i)perylene	NA	ND(0.41)	2.2	1.2	NA
Benzo(k)fluoranthene	NA	ND(0.41)	3.1	1.8	NA
Benzyl Alcohol	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
bis(2-Chloroethoxy)methane	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
bis(2-Chloroethyl)ether	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
bis(2-Chloroisopropyl)ether	NA	ND(0.41) J	ND(0.39) J	ND(0.35) J	NA
bis(2-Ethylhexyl)phthalate	NA	ND(0.40)	ND(0.39)	ND(0.35)	NA
Butylbenzylphthalate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Chrysene	NA	0.12 J	6.1	4.6	NA
Diallate	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Dibenzo(a,h)anthracene	NA	ND(0.41)	0.76	0.42	NA
Dibenzofuran	NA	ND(0.41)	0.16 J	0.25 J	NA
Diethylphthalate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Dimethylphthalate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Di-n-Butylphthalate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Di-n-Octylphthalate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Diphenylamine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Ethyl Methanesulfonate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Fluoranthene	NA	0.19 J	7.8	6.6	NA
Fluorene	NA	ND(0.41)	0.47	0.88	NA
Hexachlorobenzene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Hexachlorobutadiene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Hexachlorocyclopentadiene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Hexachloroethane	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Hexachlorophene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA

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

ADDITIONAL 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-G27A 10-15 07/28/04	RAA11-G28 0-1 07/28/04	RAA11-H26A 0-1 07/28/04	RAA11-H27 1-3 07/28/04	RAA11-H27 3-6 07/28/04
Semivolatiles Organics (continued)					
Hexachloropropene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Indeno(1,2,3-cd)pyrene	NA	ND(0.41)	1.8	1.0	NA
Isodrin	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Isophorone	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Isosafrole	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Methapyriene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Methyl Methanesulfonate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Naphthalene	NA	ND(0.41)	0.10 J	0.14 J	NA
Nitrobenzene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
N-Nitrosodiethylamine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
N-Nitrosodimethylamine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
N-Nitroso-di-n-butylamine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
N-Nitroso-di-n-propylamine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
N-Nitrosodiphenylamine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
N-Nitrosomethylethylamine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
N-Nitrosomorpholine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
N-Nitrosopiperidine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
N-Nitrosopyrrolidine	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
o,o,o-Triethylphosphorothioate	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
o-Toluidine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
p-Dimethylaminoazobenzene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Pentachlorobenzene	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Pentachloroethane	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Pentachloronitrobenzene	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Pentachlorophenol	NA	ND(2.1)	ND(2.0)	ND(1.8)	NA
Phenacetin	NA	ND(0.82)	ND(0.79)	ND(0.71)	NA
Phenanthrene	NA	0.083 J	6.0	5.7	NA
Phenol	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Pronamide	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Pyrene	NA	0.19 J	7.1	6.2	NA
Pyridine	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Safrole	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Thionazin	NA	ND(0.41)	ND(0.39)	ND(0.35)	NA
Furans					
2,3,7,8-TCDF	ND(0.0000013) X [0.0000010 J]	0.000040 Y	0.000036 Y	0.000042 Y	0.000018 Y
TCDFs (total)	0.0000014 J [0.0000010 J]	0.000053	0.000039 Q	0.000041 QI	0.000014 I
1,2,3,7,8-PeCDF	ND(0.0000025) [ND(0.0000024)]	0.000016 J	0.000014 J	0.000013 JQ	0.0000060 J
2,3,4,7,8-PeCDF	ND(0.0000025) [ND(0.0000024)]	0.000022 J	0.000041	0.000032	0.0000081 J
PeCDFs (total)	ND(0.0000025) [ND(0.0000024)]	0.000051 Q	0.000048 Q	0.000022 Q	0.0000093 Q
1,2,3,4,7,8-HxCDF	ND(0.0000025) [ND(0.0000024)]	0.0000091 J	0.000022	0.000016	0.0000070 J
1,2,3,6,7,8-HxCDF	ND(0.0000025) [ND(0.0000024)]	0.0000080 J	0.000016	0.000012 J	0.0000045 J
1,2,3,7,8,9-HxCDF	ND(0.0000025) [ND(0.0000024)]	ND(0.0000036) Q	0.000047 JQ	ND(0.000034) Q	ND(0.0000021)
2,3,4,6,7,8-HxCDF	ND(0.0000025) [ND(0.0000024)]	0.0000098 J	0.000034	0.000018	0.0000038 J
HxCDFs (total)	ND(0.0000025) [ND(0.0000024)]	0.000018 Q	0.000048 Q	0.000026	0.0000062
1,2,3,4,6,7,8-HpCDF	ND(0.0000025) [ND(0.0000024)]	0.000024	0.000052	0.000032	0.000014 J
1,2,3,4,7,8,9-HpCDF	ND(0.0000025) [ND(0.0000024)]	0.0000036 J	0.000062 J	0.000040 J	ND(0.0000021)
HpCDFs (total)	ND(0.0000025) [ND(0.0000024)]	0.000045	0.00012	0.000071	0.000024
OCDF	ND(0.0000050) [ND(0.0000048)]	0.000023 J	0.000039	0.000027 J	0.0000099 J
Dioxins					
2,3,7,8-TCDD	ND(0.0000010) [ND(0.00000096)]	ND(0.0000010)	ND(0.0000094)	ND(0.000013)	ND(0.00000085)
TCDDs (total)	ND(0.0000028) [ND(0.0000024)]	ND(0.0000029)	ND(0.000021)	ND(0.000021)	ND(0.0000022)
1,2,3,7,8-PeCDD	ND(0.0000025) [ND(0.0000024)]	ND(0.0000023)	ND(0.000027) X	ND(0.000014) Q	ND(0.0000021)
PeCDDs (total)	ND(0.0000043) [ND(0.0000033)]	0.000011 JQ	0.000014 JQ	0.000012 JQ	ND(0.0000036)
1,2,3,4,7,8-HxCDD	ND(0.0000027) [ND(0.0000032)]	ND(0.0000043)	ND(0.000021)	ND(0.000033)	ND(0.0000021)
1,2,3,6,7,8-HxCDD	ND(0.0000025) [ND(0.0000028)]	ND(0.0000038)	0.000027 J	0.000029 J	ND(0.0000021)
1,2,3,7,8,9-HxCDD	ND(0.0000026) [ND(0.0000031)]	ND(0.0000041)	0.000022 J	ND(0.000032)	ND(0.0000021)
HxCDDs (total)	ND(0.0000048) [ND(0.0000047)]	0.0000086 J	0.000011 J	0.000022	ND(0.0000021)
1,2,3,4,6,7,8-HpCDD	ND(0.0000025) [ND(0.0000024)]	0.000025	0.000023	0.000016	0.0000055 J
HpCDDs (total)	ND(0.0000025) [ND(0.0000024)]	0.000051	0.000046	0.000031	0.000010 J
OCDD	0.000012 J [0.0000074 J]	0.000017	0.00016	0.00011	0.000029 J
Total TEQs (WHO TEFs)	0.0000034 [0.0000034]	0.000021	0.000036	0.000028	0.0000098

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

ADDITIONAL 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-G27A 10-15 07/28/04	RAA11-G28 0-1 07/28/04	RAA11-H26A 0-1 07/28/04	RAA11-H27 1-3 07/28/04	RAA11-H27 3-6 07/28/04
Inorganics					
Antimony	NA	ND(6.00)	ND(6.00)	0.830 B [ND(6.00)]	NA
Arsenic	NA	8.90	15.0	5.00 [6.80]	NA
Barium	NA	22.0	40.0	39.0 [36.0]	NA
Beryllium	NA	ND(0.500)	0.120 B	0.0520 B [0.150 B]	NA
Cadmium	NA	0.330 B	0.440 B	0.400 B [0.570]	NA
Chromium	NA	7.60	6.60	5.00 [6.70]	NA
Cobalt	NA	5.20	7.30	5.30 [7.20]	NA
Copper	NA	15.0	24.0	20.0 [24.0]	NA
Cyanide	NA	0.190	0.140	0.0960 B [0.0700 B]	NA
Lead	NA	43.0	69.0	75.0 [78.0]	NA
Mercury	NA	0.130	0.130	0.300 [0.240]	NA
Nickel	NA	10.0	13.0	8.50 [13.0]	NA
Selenium	NA	0.810 J	ND(1.00) J	ND(1.00) J [0.560 J]	NA
Silver	NA	0.140 B	0.130 B	ND(1.00) [0.110 B]	NA
Sulfide	NA	ND(6.10)	7.60	350 J [200 J]	NA
Thallium	NA	ND(1.20)	ND(1.20)	ND(1.10) [ND(1.00)]	NA
Tin	NA	ND(10)	ND(10)	ND(10) [ND(10)]	NA
Vanadium	NA	10.0	8.20	6.00 [7.60]	NA
Zinc	NA	60.0	69.0	51.0 [76.0]	NA

ATTACHMENT B
ADDITIONAL SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 SOIL ANALYTICAL RESULTS
ADDITIONAL 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 SGS 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. (BBL; FSP/QAPP, approved May 25, 2004 and resubmitted June 15, 2004).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
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.

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)

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

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**

ATTACHMENT C
SOIL SAMPLING DATA VALIDATION REPORT
ADDITIONAL SUPPLEMENTAL PRE-DESIGN INVESTIGATION
FORMER OXBOW AREAS A & C

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

1.0 General

This attachment summarizes the Tier I and Tier II data reviews performed for additional soil samples collected during Supplemental Pre-Design Investigation activities conducted in support of Removal Design/Removal Action (RD/RA) at the Former Oxbow Areas A & C Removal Action Area (RAA) 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. (formerly CT&E) of Charleston, West Virginia. Data validation was performed for 47 polychlorinated biphenyl (PCB) samples, six volatile organic compound (VOC) samples, 12 semi-volatile organic compound (SVOC) samples, seven polychlorinated dibenzo-p-dioxin (PCDD)/ polychlorinated dibenzofuran (PCDF) samples, five metals samples, and five 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 May 25, 2004 and resubmitted June 15, 2004);*
- *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*
- *National Functional Guidelines for Dioxin/Furan Data Validation, USEPA (Draft, January 1996).*

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

The following data qualifiers were used in this data evaluation.

- J The compound was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound is detected at an estimated concentration less than the corresponding practical quantitation limit (PQL).
- U The compound was analyzed for, but was not detected. The sample quantitation limit is presented and adjusted for dilution and (for solid samples only) percent moisture. Non-detect sample results are presented as ND(PQL) within this report and in Table C-1 for consistency with documents previously prepared for investigations conducted at this site.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is estimated and may or may not represent the actual level of quantitation. Non-detect sample results that required qualification are presented as ND(PQL) J within this report and in Table C-1 for consistency with documents previously 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 purpose.

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. In the event that data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with the USEPA Region I Tier I data completeness requirements. 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	15	1	1	26	2	2	47
VOCs	0	0	0	3	1	2	6
SVOCs	0	0	0	10	1	1	12
PCDDs/PCDFs	0	0	0	5	1	1	7
Metals	0	0	0	3	1	1	5
Cyanide/Sulfide	0	0	0	3	1	1	5
Total	15	1	1	50	7	8	82

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 79% 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

The initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was not met. The compounds that did not meet the initial calibration criterion and the number of samples qualified are presented in the following table.

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	6	J
	2-Butanone	2	J
	Acetone	2	J
	Acetonitrile	4	J
	Acrolein	4	J
	Isobutanol	4	J
	Propionitrile	6	J
SVOCs	4-Nitroquinoline-1-oxide	12	J

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

Compounds Qualified Due to Continuing Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Butanone	4	J
	Acetone	4	J
	Iodomethane	2	J
SVOCs	1,3,5-Trinitrobenzene	11	J

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

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

Compound Qualified Due to Initial Calibration of %RSD Values

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	4-Nitrophenol	12	J

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

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,1,2-Trichloroethane	2	J
	1,2-Dibromoethane	2	J
	2-Butanone	4	J
	4-Methyl-2-pentanone	4	J
	Bromoform	2	J
	Bromomethane	2	J
	Dibromomethane	2	J
	Dichlorodifluoromethane	4	J
	Ethyl Methacrylate	2	J

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	1,2,4,5-Tetrachlorobenzene	11	J
	2,4-Dinitrophenol	1	J
	2-Nitroaniline	1	J
	3,3'-Dichlorobenzidine	12	J
	4-Nitrophenol	1	J
	Benzidine	12	J
	bis(2-Chloroisopropyl)ether	12	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method CRDL. 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 CRDL concentration (less than three times the PQL) were qualified as estimated (J). The analyte that exceeded CRDL criteria and the number of samples qualified due to those deviations are presented in the following table.

Analyte Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Selenium	4	J

Matrix spike/matrix spike duplicate (MS/MSD) sample analysis recovery criteria for SVOCs require that the MS/MSD recovery be within the laboratory-generated QC control limits specified on the MS reporting. The sample result that was less than the laboratory-generated QC control limits was qualified as estimated (J). The compound that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compound Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	Pyrene	1	J

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, at least one of the PCBs surrogate compounds must be within the laboratory-specified control limits. Detect sample results were qualified as estimated (J) and non-detect sample results were qualified as rejected when surrogate recovery were less than 10%. A summary of the compounds affected by surrogate recovery exceedences and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Surrogate Recovery Deviation

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	R
	Aroclor-1260	1	J
	Total PCBs	1	J

Blank action levels for inorganic analytes detected in the blanks were calculated at five times the detected blank concentrations. Detect sample results that were below the blank action level and above the instrument detection limit (IDL) were qualified as non-detect "U." The analyte detected in method blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Analyte Qualified Due to Blank Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Tin	4	U

Field duplicate samples were analyzed to evaluate the overall precision of laboratory and field procedures. The RPD between field duplicate samples is required to be less than 50% for soil sample values greater than five times the PQL for organics and inorganics. Sample results that exceeded these limits were qualified as estimated (J). The analyte/compounds that did not meet field duplicate RPD requirements and the number of samples qualified due to those deviations are presented in the following table.

Analyte/Compounds Qualified Due to Field Duplicate Deviations

Analysis	Analyte/Compound	Number of Affected Samples	Qualification
Inorganics	Sulfide	2	J
SVOCs	Benzo(a)anthracene	2	J
	Chrysene	2	J
	Fluoranthene	2	J
	Pyrene	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 that have been determined to be usable during the data validation process. The percent usability calculation included analyses evaluated under both the Tier I and Tier II data validation reviews. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analysis. 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 in the following table.

Data Usability		
Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Cyanide and Sulfide	100	None
VOCs	100	None
SVOCs	100	None
PCBs	98.4	A total of 6 sample results were rejected due to surrogate recovery deviations.
PCDDs/PCDFs	100	None
Pesticides/Herbicides	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, 0.42% of the data required qualification due to field duplicate RPD deviations. None of the data required qualification due to laboratory duplicate RPD deviations, MS/MSD RPD deviations, or serial dilution 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, 6.2% of the data required qualification due to instrument calibration deviations, 0.04% of the data required qualification due to MS/MSD recovery deviations, 0.34% of the data required qualification due to surrogate recovery deviations, and 0.17% of the data required qualification due to CRDL deviations. None of the data required qualification due to internal standards deviations or LCS 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 MDEP-approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures consistent with 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 due to extraction holding time requirements.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. The USEPA SW-846¹ analytical methods presented in the FSP/QAPP are updated on occasion by the USEPA to benefit from recent technological advancements in analytical chemistry and instrumentation. In most cases, the method upgrades include the incorporation of new technology that improves the sensitivity and stability of the instrumentation or allows the laboratory to increase throughput without hindering accuracy and precision. Overall, the analytical methods for this investigation have remained consistent in their general approach through continued use of the basic analytical techniques (e.g., sample extraction/preparation, instrument calibration, QA/QC procedures). 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 98.4 to 100% for individual analytical parameters and had an overall usability of 99.7 %, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

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

TABLE C - 1
ANALYTICAL DATA VALIDATION SUMMARY
OXBOW AREAS A & C ADDITIONAL SUPPLEMENTAL SAMPLES
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											
4E0P102	RAA11-DUP-6 (10 - 15)	5/5/2004	Soil	Tier II	No						RAA11-X4
4E0P102	RAA11-DUP-7 (10 - 15)	5/5/2004	Soil	Tier II	No						RAA11-W3
4E0P102	RAA11-V2 (0 - 1)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-V3 (0 - 1)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-V4 (0 - 1)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W1SE (0 - 1)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W1SE (1 - 3)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W1SE (10 - 15)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W1SE (3 - 6)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W1SE (6 - 10)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W3 (10 - 15)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W3 (3 - 6)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-W3 (6 - 10)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X2 (0 - 1)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X2 (1 - 3)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X2 (10 - 15)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X2 (3 - 6)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X2 (6 - 10)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X3 (0 - 1)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X3 (1 - 3)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X3 (10 - 15)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X3 (3 - 6)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X3 (6 - 10)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X4 (0 - 1)	5/5/2004	Soil	Tier II	Yes	Aroclor-1016	Surrogate Recovery	5.5%	27% to 132%	R	
						Aroclor-1221	Surrogate Recovery	5.5%	27% to 132%	R	
						Aroclor-1232	Surrogate Recovery	5.5%	27% to 132%	R	
						Aroclor-1242	Surrogate Recovery	5.5%	27% to 132%	R	
						Aroclor-1248	Surrogate Recovery	5.5%	27% to 132%	R	
						Aroclor-1254	Surrogate Recovery	5.5%	27% to 132%	R	
						Aroclor-1260	Surrogate Recovery	5.5%	27% to 132%	1.6 J	
						Total PCBs	Surrogate Recovery	5.5%	27% to 132%	1.6 J	
4E0P102	RAA11-X4 (1 - 3)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X4 (10 - 15)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X4 (3 - 6)	5/5/2004	Soil	Tier II	No						
4E0P102	RAA11-X4 (6 - 10)	5/5/2004	Soil	Tier II	No						
4E0P102	RB-050504-1	5/5/2004	Water	Tier II	No						
4E0P102	RB-050504-2	5/5/2004	Water	Tier II	No						
4E0P165	RAA11-X5S (0 - 1)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X5S (1 - 3)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X5S (10 - 15)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X5S (3 - 6)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X5S (6 - 10)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X8S (0 - 1)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X8S (1 - 3)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X8S (10 - 15)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X8S (3 - 6)	5/6/2004	Soil	Tier I	No						
4E0P165	RAA11-X8S (6 - 10)	5/6/2004	Soil	Tier I	No						
4H0P114	RAA11-DUP-5 (0 - 1)	8/4/2004	Soil	Tier I	No						
4H0P114	RB-080404-1	8/4/2004	Water	Tier I	No						
4H0P114	SROW-1 (0 - 1)	8/4/2004	Soil	Tier I	No						
4H0P114	SROW-2 (0 - 1)	8/4/2004	Soil	Tier I	No						
4H0P114	SROW-3 (0 - 1)	8/4/2004	Soil	Tier I	No						
4H0P114	SROW-4 (0 - 1)	8/4/2004	Soil	Tier I	No						
4H0P114	SROW-5 (0 - 1)	8/4/2004	Soil	Tier I	No						

TABLE C - 1
ANALYTICAL DATA VALIDATION SUMMARY
OXBOW AREAS A & C ADDITIONAL SUPPLEMENTAL SAMPLES
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
Metals											
4G0P620	RAA11-DUP-2 (1 - 3)	7/28/2004	Soil	Tier II	Yes	Selenium	CRDL Standard %R	78.7%	80% to 120%	0.560 J	RAA11-H27
						Tin	Method Blank	-	-	ND(10)	
4G0P620	RAA11-G28 (0 - 1)	7/28/2004	Soil	Tier II	Yes	Selenium	CRDL Standard %R	78.7%	80% to 120%	0.810 J	
						Tin	Method Blank	-	-	ND(10)	
4G0P620	RAA11-H26A (0 - 1)	7/28/2004	Soil	Tier II	Yes	Selenium	CRDL Standard %R	78.7%	80% to 120%	ND(1.00) J	
						Tin	Method Blank	-	-	ND(10)	
4G0P620	RAA11-H27 (1 - 3)	7/28/2004	Soil	Tier II	Yes	Selenium	CRDL Standard %R	78.7%	80% to 120%	ND(1.00) J	
						Tin	Method Blank	-	-	ND(10)	
4G0P620	RB-072804-1	7/28/2004	Water	Tier II	No						
VOCs											
4G0P620	RAA11-DUP-3 (0 - 1)	7/28/2004	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.12) J	RAA11-G28
						2-Butanone	CCAL %D	32.4%	<25%	ND(0.012) J	
						2-Butanone	CCAL RRF	0.034	>0.05	ND(0.012) J	
						4-Methyl-2-pentanone	CCAL %D	31.6%	<25%	ND(0.012) J	
						Acetone	CCAL RRF	0.036	>0.05	ND(0.023) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.12) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.12) J	
						Dichlorodifluoromethane	CCAL %D	25.6%	<25%	ND(0.0058) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.12) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.012) J	
4G0P620	RAA11-G28 (0 - 1)	7/28/2004	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.12) J	
						2-Butanone	CCAL %D	32.4%	<25%	ND(0.012) J	
						2-Butanone	CCAL RRF	0.034	>0.05	ND(0.012) J	
						4-Methyl-2-pentanone	CCAL %D	31.6%	<25%	ND(0.012) J	
						Acetone	CCAL RRF	0.036	>0.05	ND(0.024) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.12) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.12) J	
						Dichlorodifluoromethane	CCAL %D	25.6%	<25%	ND(0.0061) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.12) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.012) J	
4G0P620	RAA11-H26A (0 - 1)	7/28/2004	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.12) J	
						2-Butanone	CCAL %D	32.4%	<25%	ND(0.012) J	
						2-Butanone	CCAL RRF	0.034	>0.05	ND(0.012) J	
						4-Methyl-2-pentanone	CCAL %D	31.6%	<25%	ND(0.012) J	
						Acetone	CCAL RRF	0.036	>0.05	ND(0.024) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.12) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.12) J	
						Dichlorodifluoromethane	CCAL %D	25.6%	<25%	ND(0.0058) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.12) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.012) J	
4G0P620	RAA11-H27 (1 - 3)	7/28/2004	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						2-Butanone	CCAL %D	32.4%	<25%	ND(0.011) J	
						2-Butanone	CCAL RRF	0.034	>0.05	ND(0.011) J	
						4-Methyl-2-pentanone	CCAL %D	31.6%	<25%	ND(0.011) J	
						Acetone	CCAL RRF	0.036	>0.05	ND(0.021) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Dichlorodifluoromethane	CCAL %D	25.6%	<25%	ND(0.0053) J	
						Isobutanol	ICAL RRF	0.014	>0.05	ND(0.11) J	
						Propionitrile	ICAL RRF	0.043	>0.05	ND(0.011) J	

TABLE C - 1
ANALYTICAL DATA VALIDATION SUMMARY
OXBOW AREAS A & C ADDITIONAL SUPPLEMENTAL SAMPLES
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)											
4G0P620	RB-072804-1	7/28/2004	Water	Tier II	Yes	1,1,2-Trichloroethane	CCAL %D	27.2%	<25%	ND(0.0050) J	
						1,2-Dibromoethane	CCAL %D	30.4%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Acetone	ICAL RRF	0.036	>0.05	ND(0.010) J	
						Bromofom	CCAL %D	38.8%	<25%	ND(0.0050) J	
						Bromomethane	CCAL %D	29.8%	<25%	ND(0.0020) J	
						Dibromomethane	CCAL %D	26.4%	<25%	ND(0.0050) J	
						Ethyl Methacrylate	CCAL %D	31.2%	<25%	ND(0.0050) J	
						Iodomethane	CCAL RRF	0.006	>0.05	ND(0.0050) J	
						Propionitrile	ICAL RRF	0.036	>0.05	ND(0.010) J	
4G0P620	TRIP BLANK	7/28/2004	Water	Tier II	Yes	1,1,2-Trichloroethane	CCAL %D	27.2%	<25%	ND(0.0050) J	
						1,2-Dibromoethane	CCAL %D	30.4%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Acetone	ICAL RRF	0.036	>0.05	ND(0.010) J	
						Bromofom	CCAL %D	38.8%	<25%	ND(0.0050) J	
4G0P620	TRIP BLANK	7/28/2004	Water	Tier II	Yes	Bromomethane	CCAL %D	29.8%	<25%	ND(0.0020) J	
						Dibromomethane	CCAL %D	26.4%	<25%	ND(0.0050) J	
						Ethyl Methacrylate	CCAL %D	31.2%	<25%	ND(0.0050) J	
						Iodomethane	CCAL RRF	0.006	>0.05	ND(0.0050) J	
						Propionitrile	ICAL RRF	0.036	>0.05	ND(0.010) J	
SVOCs											
4G0P620	RAA11-C17 (1 - 3)	7/28/2004	Soil	Tier II	Yes	1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.38) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.38) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.76) 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	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.76) J	
						Benzo(a)anthracene	Field Duplicate RPD (Soil)	66.7%	<50%	2.2 J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.38) J	
						Chrysene	Field Duplicate RPD (Soil)	59.5%	<50%	2.4 J	
						Fluoranthene	Field Duplicate RPD (Soil)	64.8%	<50%	4.7 J	
						Pyrene	Field Duplicate RPD (Soil)	62.5%	<50%	4.2 J	
						Pyrene	MS %R	0.0%	35% to 142%	4.2 J	
4G0P620	RAA11-C17E (0 - 1)	7/28/2004	Soil	Tier II	Yes	1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.39) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.39) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<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	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.79) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.39) J	
4G0P620	RAA11-C17SW (0 - 1)	7/28/2004	Soil	Tier II	Yes	1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.38) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.38) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.77) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(1.9) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.77) J	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.77) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.38) J	
4G0P620	RAA11-DUP-4 (1 - 3)	7/28/2004	Soil	Tier II	Yes	1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.37) J	RAA11-C17
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.37) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.75) 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	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.75) J	
						Benzo(a)anthracene	Field Duplicate RPD (Soil)	66.7%	<50%	1.1 J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.37) J	
						Chrysene	Field Duplicate RPD (Soil)	59.5%	<50%	1.3 J	
						Fluoranthene	Field Duplicate RPD (Soil)	64.8%	<50%	2.4 J	
						Pyrene	Field Duplicate RPD (Soil)	62.5%	<50%	2.2 J	

TABLE C - 1
ANALYTICAL DATA VALIDATION SUMMARY
OXBOW AREAS A & C ADDITIONAL SUPPLEMENTAL SAMPLES
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)											
4G0P620	RAA11-G15E (0 - 1)	7/28/2004	Soil	Tier II	Yes	1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.39) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.39) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.78) 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	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.78) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.39) J	
						1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.40) J	
4G0P620	RAA11-G15N (0 - 1)	7/28/2004	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.40) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.80) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.0) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.80) J	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.80) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.40) J	
						1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.38) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.38) J	
4G0P620	RAA11-G15S (0 - 1)	7/28/2004	Soil	Tier II	Yes	3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.77) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.0) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.77) J	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.77) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.38) J	
						1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.43) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.43) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.87) J	
4G0P620	RAA11-G15W (0 - 1)	7/28/2004	Soil	Tier II	Yes	4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.2) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.87) J	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.87) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.43) J	
						1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.41) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.41) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.82) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(2.1) J	
4G0P620	RAA11-G28 (0 - 1)	7/28/2004	Soil	Tier II	Yes	4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.82) J	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.82) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.41) J	
						1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.39) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.39) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<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	
4G0P620	RAA11-H26A (0 - 1)	7/28/2004	Soil	Tier II	Yes	Benzidine	CCAL %D	34.8%	<25%	ND(0.79) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.39) J	
						1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.35) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.35) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.71) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	0.24 J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.71) J	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.71) J	
4G0P620	RAA11-H27 (1 - 3)	7/28/2004	Soil	Tier II	Yes	bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.35) J	
						1,2,4,5-Tetrachlorobenzene	CCAL %D	31.0%	<25%	ND(0.35) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.045	>0.05	ND(0.35) J	
						3,3'-Dichlorobenzidine	CCAL %D	30.7%	<25%	ND(0.71) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	0.24 J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.71) J	
						Benzidine	CCAL %D	34.8%	<25%	ND(0.71) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	39.9%	<25%	ND(0.35) J	
4G0P620	RB-072804-1	7/28/2004	Water	Tier II	Yes	2,4-Dinitrophenol	CCAL %D	79.3%	<25%	ND(0.050) J	
						2-Nitroaniline	CCAL %D	25.8%	<25%	ND(0.050) J	
						3,3'-Dichlorobenzidine	CCAL %D	28.1%	<25%	ND(0.020) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitrophenol	CCAL %D	79.0%	<25%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Benzidine	CCAL %D	89.1%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	38.5%	<25%	ND(0.010) J	

TABLE C - 1
ANALYTICAL DATA VALIDATION SUMMARY
OXBOW AREAS A & C ADDITIONAL SUPPLEMENTAL SAMPLES
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
PCDDs/PCDFs											
4G0P620	RAA11-DUP-1 (10 - 15)	7/28/2004	Soil	Tier II	No						RAA11-G27A
4G0P620	RAA11-G27A (10 - 15)	7/28/2004	Soil	Tier II	No						
4G0P620	RAA11-G28 (0 - 1)	7/28/2004	Soil	Tier II	No						
4G0P620	RAA11-H26A (0 - 1)	7/28/2004	Soil	Tier II	No						
4G0P620	RAA11-H27 (1 - 3)	7/28/2004	Soil	Tier II	No						
4G0P620	RAA11-H27 (3 - 6)	7/28/2004	Soil	Tier II	No						
4G0P620	RB-072804-1	7/28/2004	Water	Tier II	No						
Cyanides/Sulfides											
4G0P620	RAA11-DUP-2 (1 - 3)	7/28/2004	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	54.5%	<50%	200 J	RAA11-H27
4G0P620	RAA11-G28 (0 - 1)	7/28/2004	Soil	Tier II	No						
4G0P620	RAA11-H26A (0 - 1)	7/28/2004	Soil	Tier II	No						
4G0P620	RAA11-H27 (1 - 3)	7/28/2004	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	54.5%	<50%	350 J	
4G0P620	RB-072804-1	7/28/2004	Water	Tier II	No						