

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name	<u>HOUSATONIC RIVER - PROJECT 1 (Hot Spot)</u>	ProjectID: 01-01
Last Updated:	01/31/99	
City:	Pittsfield	
County:	Berkshire	
State:	MA	
Country:	USA	
Bodies of Water:	Upper Housatonic River	
US EPA Region:	I	
Status (Active, Complete, or Monitoring Only):	Complete	
Date On NPL:	N/A	
ROD/ESD Date:	N/A	
Operable Unit:	N/A	
Areas of Concern (length or acres):	550-foot stretch of river in Pittsfield, adjacent to the GE plant site.	
Other Characteristics of Water Body:	About 50 feet wide, several feet deep in area of the hot spot. Average flow 105 cfs (in vicinity of plant) Average width 80 feet (in vicinity of plant) Average water depth 1-3 feet (in vicinity of plant)	
Contaminants of Concern:	PCBs (1254/1260)	
Source of Contamination:	Historical implosion of indoor tank in Building 68 containing Aroclor 1260 at General Electric transformer manufacturing facility.	
Contaminated Area	Shoreline and in-river hotspot areas.	
Physical Characteristics:		
Type of Regulatory Action:	CERCLA 106 Administrative Order. Interim removal.	
Overall Status Summary:	RCRA Corrective Action Permit issued in 1994 covers six areas; Area 6 is the Housatonic River and Silver Lake; overall investigation proceeded, leading toward to a Corrective Measures Study. Subsequently, a multi-party negotiation effected a global settlement of plant site and river issues. (Refer to report for Project 01- 09.) State/EPA administrative order was issued in November 1996 for GE to remediate shoreline and in-river hot spot area contaminated with PCBs, located opposite Building 68. In 1997, 6,000 cy (4,900 cy sediment, 1,100 cy bank soil) was removed and disposed at an offsite TSCA landfill. Removal was completed in December 1997. Removal was accomplished by dry excavation from within sheetpile cells. Subsequently, in 1998, in response to the negotiated settlement, additional bank soils in the Building 68 area were targeted, removed, and disposed offsite at a TSCA landfill. This work was accomplished from November 1998 through mid-January 1999 and resulted in removal and disposal of 1445 tons (roughly 1000 cy) of bank soil.	
Remedial Action Planned:	<input checked="" type="checkbox"/>	
Risk Assessment:	<input checked="" type="checkbox"/>	
Remedial Action Implemented:	<input checked="" type="checkbox"/>	
Status of Dredging	<input type="checkbox"/>	

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

<i>Project Name</i>	<i><u>HOUSATONIC RIVER - PROJECT 1 (Hot Spot)</u></i>	<i>ProjectID:</i> 01-01
<i>Last Updated:</i>	01/31/99	

<i>PRPs:</i>	<input checked="" type="checkbox"/>
<i>Contacts:</i>	<input checked="" type="checkbox"/>
<i>References:</i>	<input checked="" type="checkbox"/>
<i>Modeling:</i>	<input checked="" type="checkbox"/>
<i>Fishing Advisory:</i>	<input checked="" type="checkbox"/>
<i>Key Conditions:</i>	commercial landfill, post monitoring

REMEDIAL ACTION PLANNED

Project Name	<u>HOUSATONIC RIVER - PROJECT 1 (Hot Spot)</u>	ProjectID: 01-01
Last Updated:	08/11/98	
Target Sediment Cleanup Standards (TSCS):	Removal to prior sampling refusal followed by PCB sampling, with additional removal based on agency field decisions regarding (1) whether remaining PCB levels pose an imminent hazard, (2) technical practicability, and (3) whether additional removal will contribute to a long-term remedy. Removal to at least five foot depth with potential for eight foot based on the three criteria. Unofficially, 1 ppm residual PCBs was a target.	
How TSCS Established:	Agency CERCLA 106 Order	
Target Bank and Floodplain Cleanup Levels (if applicable):	Agency discretion, in general; < 5 foot depth < 1 ppm; > 5 foot depth < 10 ppm (averaging allowed)	
Other Target:	None	
Environmental Sample Data References:	<ul style="list-style-type: none">• Sediment:• Water:• Fish:	
Estimated Target Volume:	2,600 - 2,800 cy of sediments and bank soils combined.	
Planned Disposal Method:	Off-site commercial landfill	
Estimated Calendar Time to Implement Remedy:	Targeted for November 1997.	
Estimated Time to Implement Remedy:	3.5 months	
Estimated Cost to Implement Remedy:	\$2.7 - 2.9 million	
Stated Remedial Action Objectives (and Source):	Abate Agency-Asserted Imminent Hazard (Source: CERCLA 106 Administrative Order, dated 1/11/97).	
Measures of Success to be Used:	Post-removal sediment and soil sampling; water column, biota, and air monitoring.	
Planned Monitoring and Restoration:	Dependent on results of habitat assessment.	
Agency Position on Sediment Removal (and Source):		

RISK ASSESSMENT

<i>Project Name</i>	<i>HOUSATONIC RIVER - PROJECT 1 (Hot Spot)</i>	<i>ProjectID:</i> 01-01
<i>Last Updated:</i>	08/11/98	
<i>RA Type:</i>	Human Health and Ecological	
<i>RA Status:</i>	Complete	
<i>RA Objectives:</i>	Evaluate human health and ecological risks	
<i>Company Performing RA:</i>	USEPA/MDEP - Human health risks memo; NOAA - ecological risks letter to USEPA	
<i>RA Reference Report:</i>	Memorandum dated 8/20/96 by USEPA/MDEP - Human Health Evaluation of Risks From Exposure to Elevated Levels of PCBs in Housatonic River Soil and Sediment in Area Immediately Adjacent to Building 68. Letter dated 8/9/96 from NOAA to EPA regarding ecological risks.	
<i>RA Summary and Conclusions:</i>	No formal risk assessment performed, although a limited human health evaluation was performed by USEPA and MDEP and an ecological risk evaluation was performed by NOAA. Human health evaluation concluded that elevated levels of PCBs at the site pose an "imminent and substantial endangerment to human health". Ecological risk evaluation determined that the level of PCBs at the site may cause "significant toxicity" and pose an "ecological risk to resident fisheries". NOAA also concluded that benthic community may be severely stressed and the potential downstream migration of PCBs sorbed onto sediment is great.	

REMEDIAL ACTION IMPLEMENTED

Project Name:	<u>HOUSATONIC RIVER - PROJECT 1 (Hot Spot)</u>	ProjectID: 01-01
Last Updated:	01/31/99	
Physical Target:	River sediment and bank soils containing elevated concentrations of PCBs.	
Goals:	Comply with CERCLA Order and abate Agency-asserted imminent hazard.	
Primary Contractor:	Maxymillian Technologies, Inc.	
Other Contractors:	Blasland, Bouck & Lee	
Generic Remediation Method:	Dry excavation	
Equipment:	Excavator located on sheet pile cofferdam as well as excavators on the dry riverbed; dewatering caissons, water treatment system (sedimentation, filtration, carbon adsorption).	
Material Handling:	Gravity dewatering in stockpile.	
Volume Removed:	6,000 cy (4,900 cy sediment and 1,100 cy bank soils) in 1997; about 1,000 cy bank soils in 1998	
Calendar Time:	June 29 thru December 1997 for 6000 cy; November 2, 1998 thru mid-January 1999 for 1000 cy bank soils	
Time To Implement:	6 months (approximately 50 hours per week by contractor) for 6,000 cy; 2.5 months for 1000 cy	
Total Cost:	\$4.5 million; \$750 per cy for the 6,000 cy; cost not available for the 1,000 cy	
Dredging Cost:	N/A	
Disposal of Sediment:	TSCA and RCRA material disposal at Chemical Waste Management Landfill, Model City, NY.	
Volume of Water:	16.3 million gallons (despite dry excavation) for the 6,000 cy project	
Method of Water Treatment:	1997: On-site existing groundwater treatment plant and two mobile water treatment systems (primary treatment processes: sedimentation, filtration, carbon adsorption).	
Water Discharge Limit:	1997: NPDES permit and emergency exclusion; various limits, PCBs 0.5 ppb.	
Air Monitoring During Remediation:	1997: Continuous upwind and downwind PCBs and particulates. Contractor health and safety monitoring.	
Water Monitoring During Remediation:	1997: Continuous upstream and downstream PCBs/TSS/turbidity.	
Outcome:	From June 29 - December 1997, removed 6,000 cy, about twice the estimated volume of material. 9,500 tons of sediments and 1,300 tons of bank soils disposed at offsite commercial landfill (Model City, NY). Removal from the river bed was accomplished by dry excavation from within sheetpile cells, typically to an 8-foot depth. From November 2, 1998 thru mid-January 1999, 1445 tons of bank soils were excavated and disposed at the same landfill.	
Restoration and Post-Monitoring:	The following is for the 1997 project: River restoration generally included placing a geotextile, a variable depth of sand, 10 inches of rip-rap, and 6 inches of sand. Bank restoration generally included placing a geotextile, a variable depth of sand, and 6" of topsoil. An engineered vegetated soil cover was then installed consisting of coir fascines, erosion control blankets, and planting of trees, shrubs and grasses. Post-excavation verification samples were collected in excavated areas. 61 final samples were used to document post-excavation PCB levels. Arithmetic average of underlying material in river was	

REMEDIAL ACTION IMPLEMENTED

Project Name: **HOUSATONIC RIVER - PROJECT 1 (Hot Spot)** **ProjectID:** 01-01
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93.4 ppm and ranged from ND to 2,240 ppm (8 feet deep); arithmetic average of underlying soil in river bank was 5,300 ppm, and ranged from 2.5 ppm (5.5 - 6 feet deep) to 102,000 ppm (6-8 feet deep).

Site-Specific Difficulties: Dewatering, removal depth limitations due to structural limitations of sheetpiling, presence of NAPL.

Monitoring Data

References:

- **Sediment**
- **Water:**
- **Fish:**

POTENTIALLY RESPONSIBLE PARTIES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

PRP Name: PRP INFORMATION NOT RELEASED

PRPID:

Street Address:

City:

State:

KEY CONTACTS

Project Name **HOUSATONIC RIVER - PROJECT 1 (Hot Spot)**

ProjectID: 01-01

Last Name: KEY CONTACT INFORMATION NOT RELEASED

Contact ID:

First Name:

Title:

Company:

Address:

City:

State:

Postal Code:

Work Phone # :

Other Phone #:

Fax # :

Email Address:

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: A

ReferenceID: 253

Title: **Report on Supplemental Characterization Activities - Building 68 Area**

Location: AEM

Category: Site Update

Prepared by/Author: Blasland, Bouck & Lee, Inc

Preparer/Author Address: 6723 Towpath Road
P.O. Box 66
Syracuse, NY 13214

Prepared For: Distribution

Date Published: February 1998

Key Words and Phrases:

Reference Type: A

ReferenceID: 254

Title: **Immediate Response Action Plan for Building 68 Area**

Location: AEM

Category: Remedial Action Plan/Work Plan

Prepared by/Author: Blasland, Bouck & Lee, Inc

Preparer/Author Address: 6723 Towpath Road
P.O. Box 66
Syracuse, NY 13214

Prepared For: Distribution

Date Published: October 1996

Key Words and Phrases:

Reference Type: A

ReferenceID: 259

Title: **First Unilateral Administrative Order for Removal Action - GE Building 68 Site, Pittsfield, Massachusetts**

Location: AEM

Category: Legal

Prepared by/Author: US EPA Region I

Preparer/Author Address:

Prepared For: Distribution

Date Published: December 20, 1996

Key Words and Phrases:

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: A
Title: **Removal Actions Operations Plan**
Location: BBL
Category: Remedial Action Plan/Work Plan
Prepared by/Author: Maxymillian Technologies, Inc.
Preparer/Author Address:
Prepared For: Distribution
Date Published: May 1997
Key Words and Phrases:

ReferenceID: 269

Reference Type: A
Title: **Addendum to the MCP Phase II/RFI Proposal for East Street Area 2, USEPA Area 4**
Location: BBL
Category: Remedial Design
Prepared by/Author: Golder Associates
Preparer/Author Address:
Prepared For: Distribution
Date Published: May 1996
Key Words and Phrases:

ReferenceID: 270

Reference Type: A
Title: **Building 68 Removal Action Work Plan**
Location: BBL
Category: Remedial Action Plan/Work Plan
Prepared by/Author: Blasland, Bouck & Lee, Inc
Preparer/Author Address: 6723 Towpath Road
P.O. Box 66
Syracuse, NY 13214
Prepared For: Distribution
Date Published: May 1997
Key Words and Phrases:

ReferenceID: 272

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: A

ReferenceID: 300

Title: *Appendix B: Modified Restoration Plans for Areas 1 and 3, Building 68*

Location: AEM

Category: Remedial Design

Prepared by/Author: New England Environmental, Inc.

Preparer/Author Address: 800 Main Street
Amherst, MA 01002

Prepared For:

Date Published: 1997 circa

Key Words and Phrases:

Reference Type: B

ReferenceID: 245

Title: *Removal Action - Building 68 Area EPA Region I CERCLA Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report) (June 29 - July 5, 1997)*

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

Preparer/Author Address: General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: July 8, 1997

Key Words and Phrases:

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 246

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(July 13 - 19, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: July 22, 1997

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 247

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(July 20 - 26, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: July 29, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 248

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(July 27 - August 3, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: August 5, 1997

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 249

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(August 3 - 9, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: August 12, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 250

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(August 10 - 16, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: August 19, 1997

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 251

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(August 31 - September 6, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: September 10, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 252

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(August 17 - 23, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: August 26, 1997

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 253

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(December 21 - 27, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: December 31, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 254

Title: ***Memo re: DEP #1-0147P, EPA Area 6 (Housatonic River)
DEP #1-0146P, EPA Area 4 (East Street Area 2)
Immediate Response Action Plan for Building 68 Area***

Location: AEM

Category: Site Update

Prepared by/Author: Ronald Desgroseilliers

**Preparer/Author
Address:** Area Environmental & Facility Programs
General Electric Co.
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: November 4, 1996

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 268

Title: ***E-Mail Update on Building 68 Area Removal Action***

Location: AEM

Category: Site Update

Prepared by/Author: A. Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: Internal Distribution

Date Published: September 3, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 269

Title: *E-Mail Update on Building 68 Area Removal Action*

Location: AEM

Category: Site Update

Prepared by/Author: A. Silfer

Preparer/Author Address: General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: Internal Distribution

Date Published: September 23, 1997

Key Words and Phrases:

Reference Type: B

ReferenceID: 273

Title: *Memo re: Initial Response to March 27, 1997 Agency Comments*

Location: AEM

Category: Response Comments

Prepared by/Author: General Electric Co.

Preparer/Author Address: 100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: US EPA and Bureau of Wastes Site Cleanup

Date Published: April 2, 1997

Key Words and Phrases:

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 368

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1047P (Weekly Status Report)
(November 1 - 7, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew T. Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: November 10, 1998

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 369

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1047P (Weekly Status Report)
(December 13 - 19, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew T. Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: December 22, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 370

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1047P (Weekly Status Report)
(January 3 - 9, 1999)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew T. Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: January 12, 1999

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 371

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1047P; Additional Bank Soil
Removal Activities**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew T. Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: December 15, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 392

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(November 2 - 8, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: November 10, 1997

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 393

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(November 8 - 14, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: November 17, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 394

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(November 15 - 21, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: November 24, 1998

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 395

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(November 22 - 28, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: December 1, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 396

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(November 29 - December 5, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: December 8, 1998

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 397

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(December 6 - 12, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
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General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: December 15, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 398

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(December 20 - 26, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: December 29, 1998

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 399

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(December 27, 1998 - January 2, 1999)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
Address:** General Electric Environmental Programs
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: January 6, 1999

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 400

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Project Status Report)
(January 4 - 15, 1998)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

**Preparer/Author
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Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: January 20, 1999

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 401

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(January 10 - 16, 1999)**

Location: AEM

Category: Site Update

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Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: January 19, 1999

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: B

ReferenceID: 402

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Weekly Status Report)
(January 17 - 23, 1999)**

Location: AEM

Category: Site Update

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Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: January 26, 1999

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 403

Title: **Removal Action - Building 68 Area EPA Region I CERCLA
Docket #I-97-1003 / DEP File #1-1-47P (Additional Site
Activities) (September 3 - 10, 1997)**

Location: AEM

Category: Site Update

Prepared by/Author: Andrew Silber

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Prepared For: EPA Region I and MA Dept. of Env. Protection

Date Published: September 15, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: C

ReferenceID: 250

Title: *EPA Orders GE to Remove PCBs From Housatonic River*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: June 12, 1998

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 345

Title: *GE to pay cleanup costs for transformer site*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Chemical and Engineering News (C&EN)

Date Published: October 5, 1998

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 851

Title: *Mass.: GE Pays for Damages to River*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Hazardous Waste/Superfund Week

Date Published: April 8, 2002

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 1 (Hot Spot)

ProjectID: 01-01

Reference Type: E

ReferenceID: 118

Title: *Sediment Management Seminar 2000 Proceedings (Reference E-121)*

Location: AEM

Category: Dredging: Remedial (Contaminated Sediments)

Prepared by/Author: Blasland, Bouck & Lee, Inc.

Preparer/Author Address: 6723 Towpath Road
P.O. Box 66
Syracuse, NY 13214

Prepared For: Attendees

Date Published: February 10-11, 2000

Key Words and Phrases:

Reference Type: Q

ReferenceID: 3

Title: *Analysis of Building 68 Bids*

Location: AEM

Category: Cost Summary Reports

Prepared by/Author: General Electric Co.

Preparer/Author Address: Pittsfield, MA

Prepared For: Internal file

Date Published: 1997

Key Words and Phrases:

MODELING

Project Name:	<u>HOUSATONIC RIVER - PROJECT 1 (Hot Spot)</u>	ProjectID: 01-01
Last Updated:	08/11/98	
Modeling Performed:	HEC-2 hydraulic model for approximately 16 river miles of Housatonic River between the USGS gauging station at Coltsville, MA, to the Woods Pond Dam in Lenox, MA.	
Modeling Objectives:	Characterize hydraulic nature of river system and develop a predictive model for approximating the water surface elevations corresponding to various flow conditions.	
Modeling Description:	HEC-2 model was developed using 1:1200 scale mapping, 2-foot contour elevations, numerous surveyed river cross-sections (nearly 100), and associated bridge geometry's. Model was calibrated using color aerial photograph taken during flooding event with a recurrence interval of approximately 5 years.	
Company Performing Modeling:	Blasland, Bouck & Lee	
Modeling Status:	Ongoing, as needed.	
Modeling Summary:	Model has been used to approximate the associated 1 ppm PCB isopleth for the Housatonic river between the GE-Pittsfield, MA facility and Woods Pond Dam, as well as to evaluate various remedial alternatives.	

FISH ADVISORIES

Project Name ***HOUSATONIC RIVER - PROJECT 1 (Hot Spot)***

ProjectID: 01-01

Advisory: Housatonic River

AdvisoryID: 1

Extent: All towns from Dalton to Sheffield

Pollutant: PCBs (total)

Species: all fish

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 188

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Elaine Krueger

Contact Number: 617-624-5757

Advisory: Housatonic River

AdvisoryID: 449

Extent: All towns from Dalton to Sheffield

Pollutant: PCBs (total)

Species: all fish

Population: NCSP

Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.

Advisory Type: River

Advisory Number: 188

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Elaine Krueger

Contact Number: 617-624-5757

Advisory: Housatonic River

AdvisoryID: 2

Extent: All towns from Dalton to Sheffield

Pollutant: PCBs (total)

Species: frogs

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 188

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Elaine Krueger

Contact Number: 617-624-5757

FISH ADVISORIES

Project Name ***HOUSATONIC RIVER - PROJECT 1 (Hot Spot)***

ProjectID: 01-01

Advisory: Housatonic River

AdvisoryID: 900

Extent: All towns from Dalton to Sheffield

Pollutant: PCBs (total)

Species: frogs

Population: NCSP

Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.

Advisory Type: River

Advisory Number: 3519

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Elaine Krueger

Contact Number: 617-624-5757

Advisory: Housatonic River

AdvisoryID: 3

Extent: All towns from Dalton to Sheffield

Pollutant: PCBs (total)

Species: turtles

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 188

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Elaine Krueger

Contact Number: 617-624-5757

Advisory: Housatonic River

AdvisoryID: 901

Extent: All towns from Dalton to Sheffield

Pollutant: PCBs (total)

Species: turtles

Population: NCSP

Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.

Advisory Type: River

Advisory Number: 188

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Elaine Krueger

Contact Number: 617-624-5757
