

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name	<u>HOUSATONIC RIVER - PROJECT 4 (Rest of River)</u>	ProjectID: 01-13
Last Updated:	11/28/03	
City:	Pittsfield and environs	
County:	Berkshire	
State:	MA	
Country:	USA	
Bodies of Water:	Housatonic River (starting in Pittsfield, MA)	
US EPA Region:	I	
Status (Active, Complete, or Monitoring Only):	Active	
Date On NPL:	N/A	
ROD/ESD Date:	N/A	
Operable Unit:	N/A	
Areas of Concern (length or acres):	The stretch of river from the confluence of the East and West Branches of the Housatonic River (in Pittsfield, MA) downstream to Woods Pond Dam, a distance of about 10 river miles, then beyond to the Massachusetts state line and into Connecticut. Areas of concern include sediments, riverbanks, and floodplains. The initial focus is on the 10-mile stretch.	
Other Characteristics of Water Body:	Varying from 50 to 160 ft. wide and varying in water depth to 11 feet. Based on historical sampling data (Reference A-724), PCB levels in sediments in the 10-mile segment downstream of the confluence are as follows: from 0 to 0.5 feet range from 0.1 to 220 ppm with an avg. of 25.1 ppm; from 0.5 to one foot range from 0.02 to 270 ppm with an avg. of 31.9 ppm; from 1 to 2 feet range from 0.01 to 370 ppm with an avg. of 24.1 ppm; from 2 to 3 feet range from ND to 2,000 ppm with an avg. of 61.6 ppm; and below 3 feet range from 0.03 to 610 ppm with an avg. of 60.8 ppm. PCB levels in Woods Pond sediments are as follows: from 0 to 2 feet range from 0.01 to 210 ppm with an avg. in the 21 to 42 ppm range; from 2 to 3 feet range from 0.03 to 220 ppm with an avg. of 11.8 ppm; and below 3 feet range from ND to 26 ppm with an avg. of 2.6 ppm. A comprehensive sampling program has recently been completed by the US EPA, the results of which are not reflected in the preceding. These results are now incorporated in a Supplemental RCRA Facility Investigation (RFI) Report prepared and issued by GE.	
Contaminants of Concern:	PCBs (1254/1260)	
Source of Contamination:	Historical discharges from the GE plant site.	
Contaminated Area Physical Characteristics:	Urban setting within the City of Pittsfield for the two miles from the GE plant site to the confluence with the West Branch; heavily vegetated banks; five bridges for cross streets are in the first two miles; oxbows straightened/channelized in the 1940s. These two miles are covered in Projects ID 01-09 and 01-11. Below the two mile segment, from the confluence to Woods Pond Dam, the river widens, with significant floodplain areas in a rural setting. As described in Reference A-724: "The stretch of river from the confluence of the East and West Branches of the Housatonic River to Woods Pond is best described in two parts: the first section from the confluence to the New Lenox Road Bridge; and the second section from the New Lenox Road Bridge to the headwaters of Woods Pond, . . . (which is an extent of) approximately 10 miles." "The first section of the river is approximately 50 to 120 ft. wide, and up to 11 ft. deep. The water velocity is generally slower as compared to upstream reaches. The river meanders and has a few oxbows. The banks are generally scoured and eroded. Sediment deposition is	

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moderate and consists of coarse to fine sand with approximately 10% silt and clay. The predominant aquatic habitat cover is snags (larger woody debris), with undercuts, bank, and rock providing additional cover. The land use in this area is primarily residential, with some open space and some forested areas.”

“The second section of the river ranges from 60 to 160 ft. wide and varies in depth from 4 to 8 ft. This section of river is dominated by a broad wetland floodplain, which ranges from 800 to 3,000 ft. wide, and includes numerous backwater areas, side channels, and poorly defined streambanks and meanders. The river is slow mixing with little gradient. Sediments in this area are mostly fine sand and some silt and sediment deposition rates are estimated at 0.5 to 0.6 inches per year.”

“Closer to Woods Pond, the river has low water velocities and deep pool habitat (up to 7-ft. depths or greater). The cover habitat is almost entirely dense vegetation overhanging the banks of the river, although aquatic vegetation is extensive in certain areas. Numerous snags of large-diameter (10- to 12-inch) logs also provide cover. These snags are large enough to divert stream flow and create deep pools through scouring of the stream bed. Additional cover includes banks, undercuts, and aquatic macrophytes.”

“The land surrounding this area is agricultural and forested near New Lenox Road . . . A railroad track is located on the western side of the river valley, but is separated from the river by a wetland. Widespread physical access to the river is limited due to the wetlands and the lack of improved roads near the river. An unimproved road that travels along the eastern side of the river (October Mountain Road) can be accessed from New Lenox Road and provides numerous points of access to the river.”

“The floodplain from New Lenox Road to Woods Pond is relatively wide and provides the largest intact wildlife habitat in the river above Woods Pond Dam.”

“Woods Pond is a 60-acre manmade pond. Several upstream backwater areas are associated with the pond and form an area of more than 120 acres. The former dam was built around 1900, and the second replacement dam is a concrete overflow weir dam constructed in 1989 approximately 180 ft. downstream of the original dam. The pond is approximately 12 miles downstream of the GE facility in Pittsfield and is the first impoundment downstream of the GE facility. Shallow areas of the pond contain extensive stands of macrophytes and large algal mats during the summer months. The pond has aquatic habitat characteristic of a standing water environment. Cover along banks is abundant, with overhanging vegetation, woody debris, rock piles, and submerged macrophytes.”

Type of Regulatory Action: Consent Decree, pursuant to both CERCLA and RCRA. Final.

Overall Status Summary: On October 7, 1999, representatives of the U.S. EPA; U.S. Department of Justice; the Commonwealth of Massachusetts Department of Environmental Protection, Office of the Attorney General and Executive Office of Environmental Affairs; the State of Connecticut Department of Environmental Protection and Office of the Attorney General; the U.S. Department of the Interior; the National Oceanic and Atmospheric Administration; the City of Pittsfield; the Pittsfield Economic Development Authority; and the General Electric Company (GE) reached a comprehensive agreement relating to the cleanup of GE's Pittsfield facility, certain off-site properties, and the Housatonic River. The detailed terms of this agreement are incorporated in a Consent Decree which was lodged on October 7, 1999, with the United States District Court of Massachusetts, Western Division, in Springfield, Massachusetts. Following a public comment period in early 2000, the Consent Decree was entered by the Court on October 27, 2000.

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The Consent Decree provides for cleanup of the Housatonic River and associated areas, cleanup of the General Electric Plant facility, environmental restoration of the Housatonic River, compensation for natural resource damages, and government recovery of past and future response costs. In addition, a Definitive Economic Development Agreement among GE, the City of Pittsfield, and the Pittsfield Economic Development Authority provides for economic redevelopment of the GE Plant facility. That agreement became effective upon entry of the Consent Decree.

The Consent Decree divides the Housatonic River into three separate segments for purposes of cleanup responsibilities. For the first 0.5 mile of the East Branch, from the Newell Street Bridge to the Lyman Street Bridge in Pittsfield (MA), GE will perform source control measures and cleanup of the river sediments and bank soil. For the next 1.5 miles, from the Lyman Street Bridge to the confluence of the East and West Branches, EPA will perform cleanup of the river sediments and bank soil to the top of bank while GE is responsible for cleanup of the floodplain soil (i.e. all contaminated property beyond the top of bank). The cost to implement the removal action in the 1.5 mile segment will be shared by EPA and GE with the amount of EPA funding increasing as the overall costs increase. For the segment below the confluence, the "Rest of River," GE is responsible for implementing a remedy to be selected by EPA. In this Major Contaminated Sediment Site Database, the first 0.5 mile segment is Project ID 01-09, the next 1.5 miles is Project ID 01-11, and the Rest of River is Project ID 01-13.

The objective for the Rest of River is to implement a process which is designed to identify a remedy for the downstream portions of the Housatonic River that is protective of human health and the environment and for GE to implement the remedy. Under the terms of the Consent Decree, EPA is conducting extensive characterization studies and investigations in the Rest of River and environs to support the Agency in developing human health and ecological risk assessments and in performing a modeling study of the hydrodynamics, sediment transport, and PCB fate and bioaccumulation in the river. The reports from these activities will undergo formal peer review. GE will prepare a Supplemental RCRA Facility Investigation (RFI) Report to supplement an earlier (January 1996) GE RFI Report, will propose cleanup goals, and will evaluate cleanup alternatives (corrective measures), including a no action scenario. After public comment, EPA will select the corrective measure(s) to be implemented by GE for the Rest of River. GE may then appeal EPA's decision as described in Appendix G, Part II, Section J of the Consent Decree.

The following reports have been prepared thus far for the Rest of River:

- Charge for the Hydrodynamic Modeling Peer Review, February 1999;
- Final Preliminary Ecological Characterization Report, Newell Street to Woods Pond, March 1999;
- Supplemental Investigation Work Plan for the Lower Housatonic River, February 22, 2000;
- Quality Assurance Project Plan, Modeling Study of PCB Contamination in the Housatonic River, October 2000;
- Modeling Framework Design, Modeling Study of PCB Contamination in the Housatonic River, October 2000;
- Comments of the General Electric Company on the USEPA Modeling Study of PCB

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Contamination in the Housatonic River, November 2000;

- Preliminary and Final Peer Review Comments, Modeling Study of PCB Contamination in the Housatonic River, Modeling Framework Design, June 2001;
- Contractor Quality Control Plan, September 2001;
- Phase I Human Health Risk Assessment for Rest of River, November 2001;
- Responsiveness Summary to the Peer Review of the Modeling Framework Design and Quality Assurance Project Plan, June 2002; and
- Rest of River Site Investigation Data Report, August 2002
- Rest of River RCRA Facility Investigation Report, January 2003
- Human Health Risk Assessment for Rest of River, June 2003
- Ecological Risk Assessment for Rest of River, July 2003

Model calibration is targeted for 2002 and model validation is targeted for 2003. Peer review of both the Human Health Risk Assessment and Ecological Risk Assessment is targeted for late 2003. A Corrective Measures Study Report is targeted for 2004, with a proposed remedy to follow.

Remedial Action Planned: ☐

Risk Assessment: ☒

Remedial Action Implemented: ☐

Status of Dredging ☐

PRPs: ☒

Contacts: ☒

References: ☒

Modeling: ☒

Fishing Advisory: ☒

Key Conditions: hydrodynamic modeling, extended (>1 mile) river, floodplains targeted, natural recovery, property access issues, wetlands

RISK ASSESSMENT

<i>Project Name</i>	<i>HOUSATONIC RIVER - PROJECT 4 (Rest of River)</i>	<i>ProjectID:</i> 01-13
<i>Last Updated:</i>	08/15/02	
<i>RA Type:</i>	Baseline Human Health & Ecological; Public Health	
<i>RA Status:</i>	Active	
<i>RA Objectives:</i>	<p>As described in Reference A-724: The Baseline Human Health Risk Assessment will provide "an evaluation of the potential human health risks under baseline conditions (i.e., no action) of current and future site use; a basis for determining whether remedial actions are necessary; a basis for setting remediation goals for contaminants of concern; and a basis for comparing various remedial alternatives."</p> <p>"The objective of the (Ecological Risk Assessment) is to characterize, and quantify where appropriate, the current and potential baseline ecological risks that would prevail should no further remedial action be taken to address chemical contamination of the Lower River resulting from the releases from activities at the GE Pittsfield Facility"</p>	
<i>Company Performing RA:</i>	Roy F. Weston, Inc. and Avatar Environmental (on behalf of EPA)	
<i>RA Reference Report:</i>	Final Draft Phase I Human Health Risk Assessment for Rest of River (Reference A-840).	
<i>RA Summary and Conclusions:</i>	<p>As described in Reference A-840 (Phase I HHRA): The Human Health Risk Assessment is being conducted in two phases. "Phase 1 is a conservative, risk-based screening evaluation of floodplain and riverbank soil and sediment on the basis of potential human exposure to polychlorinated biphenyls (PCBs) from direct contact under current land use conditions. The results of Phase I will be used to better focus Phase 2, the Baseline Human Health Risk Assessment (BHHRA). In addition to providing a comprehensive risk assessment for areas where soil or sediment concentrations exceed the (screening risk-based concentrations) SRBCs, the BHHRA will also include consideration of indirect exposures to PCBs (e.g., from consumption of fish, duck, or agricultural products)."</p>	

POTENTIALLY RESPONSIBLE PARTIES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

PRP Name: PRP INFORMATION NOT RELEASED

PRPID:

Street Address:

City:

State:

KEY CONTACTS

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

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 4 (Rest of River)**

ProjectID: 01-13

Reference Type: A

ReferenceID: 447

Title: ***Fact Sheet: EPA Launches Action Plan for Environmental and Economic Restoration of Pittsfield and Berkshire County***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region I

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: April 6, 1998

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 724

Title: ***Final: Supplemental Investigation Work Plan for the Lower Housatonic River (selected pages)***

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: Roy F. Weston, Inc

**Preparer/Author
Address:** Manchester, NH 03101

Prepared For: U.S. Army Corps of Engineers, North Atlantic Division, New England District

Date Published: February 21, 2000

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 725

Title: ***Fact Sheet: Rest of River - Reports***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region I

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: November 1, 2001

**Key Words and
Phrases:**

REFERENCES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

Reference Type: A

ReferenceID: 734

Title: ***Housatonic River Area PCB Exposure Assessment Study. Final Report (PB99159915)***

Location: AEM

Category: Risk Assessment

Prepared by/Author: Massachusetts Department of Public Health

Preparer/Author Address: Boston, MA

Prepared For: General Public

Date Published: September 1999

Key Words and Phrases:

Reference Type: A

ReferenceID: 840

Title: ***Final Draft Phase I Human Health Risk Assessment for Rest of River***

Location: BBL

Category: Risk Assessment

Prepared by/Author: (1) Roy F. Weston, Inc., (2) Avatar Environmental, LLC

Preparer/Author Address: (1) West Chester, PA 19380
(2) Exton, PA 19341

Prepared For: US Army Corps of Engineers, New England District and US EPA Region I

Date Published: November 1, 2001

Key Words and Phrases:

Reference Type: A

ReferenceID: 1072

Title: ***Memo re: CSTAG Recommendations on the Housatonic Rest of River Contaminated Sediment Superfund Site***

Location: AEM

Category: Contaminated Sediments: Overview of Issues

Prepared by/Author: Stephen J. Ells and Judith R. McCulley, Co-Chairs

Preparer/Author Address: Contaminated Sediments Technical Advisory Group (CSTAG)
US EPA
Washington, DC 20460

Prepared For: Susan Svirsky, Site Manager, Region I

Date Published: December 13, 2002

Key Words and Phrases:

REFERENCES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

Reference Type: A

ReferenceID: 1073

Title: ***Memo re: CSTAG Recommendations on the Housatonic Rest of River Contaminated Sediment Superfund Site: Region I Responses***

Location: AEM

Category: Contaminated Sediments: Overview of Issues

Prepared by/Author: Susan C. Svirsky, Project Manager,

Preparer/Author Address: Housatonic Rest of River Site
EPA New England

Prepared For: Stephen J. Ells and Judith R. McCulley, Co-Chairs
Contaminated Sediments Technical Advisory Group (CSTAG)

Date Published: March 5, 2003

Key Words and Phrases:

Reference Type: B

ReferenceID: 461

Title: ***EPA Announces Proposed Modeling Framework for Assessing Housatonic River Cleanup; Agency Seeks Nominations for Scientific Peer Reviewers of Modeling Framework***

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: US EPA Region I

Preparer/Author Address:

Prepared For: General Public

Date Published: October 16, 2000

Key Words and Phrases:

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: B

ReferenceID: 649

Title: *Consent Decree Appendix D: Request for Removal Actions Outside the River at the GE-Housatonic River Site, Pittsfield, Massachusetts - Action Memorandum*

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author:

Preparer/Author Address: General Electric
Office of Site Remediation and Restoration

Prepared For: US EPA Region I, Regional Administrator

Date Published: August 4, 1999

Key Words and Phrases:

Reference Type: B

ReferenceID: 864

Title: *Spotlight On: The Housatonic River*

Location: AEM

Category: Site Update

Prepared by/Author: Susan Pastor

Preparer/Author Address: US EPA Region V

Prepared For: Fox River Current

Date Published: May/June 2000

Key Words and Phrases:

Reference Type: B

ReferenceID: 867

Title: *Statewide Provisional Waterfowl Consumption Advisory*

Location: AEM

Category: Contaminated Sediments: Characteristics/Bioavailability

Prepared by/Author: The Commonwealth of Massachusetts

Preparer/Author Address: Executive Office of Health and Human Services
Department of Public Health
250 Washington Street
Boston, MA 02108-4619

Prepared For: General Public

Date Published: August 1999

Key Words and Phrases:

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: B

ReferenceID: 870

Title: *Waterfowl Samples from Housatonic River Show Elevated Levels of PCBs; State Department of Public Health Issues Duck Consumption Advisory*

Location: AEM

Category: Contaminated Sediments: Characteristics/Bioavailability

Prepared by/Author: US EPA Region I

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: August 27, 1999

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 70

Title: *GE site heads for NPL*

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: April 10, 1998

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 269

Title: *GE property proposed for NPL*

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: August 22, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: C

ReferenceID: 357

Title: *GE's Pollution Problems Spread*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Engineering News-Record (ENR)

Date Published: September 15, 1997

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 366

Title: *EPA, GE at Odds Over Dredging*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Engineering News-Record (ENR)

Date Published: April 1998

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 383

Title: *Enrichment of Microorganisms That Sequentially meta, para-
Dechlorinate the Residue of Aroclor 1260 in Housatonic River
Sediment*

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: Donna L. Bedard, Heidi M. van Dort, Ralph J. May, and Lynn A. Smullen

Preparer/Author Characterization and Environmental Technology Laboratory

Address: GE Corporate Research and Development
Schenectady, NY 12301

Prepared For: Environmental Science & Technology, 1997, Vol. 31, No. 11, pp 3308 - 3313

Date Published: 1997

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: C

ReferenceID: 384

Title: *Priming Microbial meta-Dechlorination of Polychlorinated Biphenyls That Have Persisted in Housatonic River Sediments for Decades*

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: Donna L. Bedard, Heidi M. van Dort, Ralph J. May, and Lynn A. Smullen

Preparer/Author Address: Characterization and Environmental Technology Laboratory
GE Corporate Research and Development
Schenectady, NY 12301

Prepared For: Environmental Science & Technology, 1997, Vol. 31, No. 11, pp 3300 - 3307

Date Published: 1997

Key Words and Phrases:

Reference Type: C

ReferenceID: 485

Title: *Corps, GE Open Contracts for Initiating \$200M Cleanup of Housatonic R. PCBs*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author Address:

Prepared For: Superfund Week

Date Published: June 25, 1999

Key Words and Phrases:

Reference Type: C

ReferenceID: 673

Title: *Mass. Requires ExxonMobil To Agree to Cleanup Timetable*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author Address:

Prepared For: Hazardous Waste/Superfund Week

Date Published: May 7, 2001

Key Words and Phrases:

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: C

ReferenceID: 798

Title: *Consent Decree for Housatonic Site to Allow Cleanup to Move Forward*

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: November 3, 2000

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 800

Title: *PCB cleanup ordered in Connecticut river*

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Engineering News-Record (ENR)

Date Published: March 18, 1991

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 854

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 4 (Rest of River)

ProjectID: 01-13

Reference Type: C

ReferenceID: 1009

Title: *Remedies Suggested for Housatonic R.; Corps Soon to Announce \$150M Award*

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: March 24, 2000

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 1012

Title: *As Corps Awards Housatonic Contract, Property Owners Want More to be Done*

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: April 14, 2000

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 38

Title: *Battle of the Housatonic pits GE against EPA*

Location: AEM

Category: Site Update

Prepared by/Author: William M. Carley, staff reporter

**Preparer/Author
Address:**

Prepared For: The Wall Street (NY) Journal

Date Published: July 27, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: D

ReferenceID: 85

Title: *PCBs in ducks spurs warning*

Location: AEM

Category: Contaminated Sediments: Characteristics/Bioavailability

Prepared by/Author: David L. Chandler

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: August 28, 1999

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 96

Title: *Pittsfield PCB tests unearth bad news*

Location: AEM

Category: Site Update

Prepared by/Author: The Associated Press

**Preparer/Author
Address:**

Prepared For: The Worcester (MA) Telegram & Gazette

Date Published: December 10, 1999

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 136

Title: *Source of worry: How did PCBs get into the river's West Branch?*

Location: AEM

Category: Site Update

Prepared by/Author: Jack Dew

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: October 17, 2000

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: D

ReferenceID: 137

Title: *EPA files response to critics of cleanup*

Location: AEM

Category: Site Update

Prepared by/Author: Jack Dew

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: October 25, 2000

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 139

Title: *PCB settlement reached*

Location: AEM

Category: Site Update

Prepared by/Author: Theo Stein

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: September 25, 1998

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 140

Title: *PCB accord reached for Pittsfield*

Location: AEM

Category: Site Update

Prepared by/Author: Jeff Donn

**Preparer/Author
Address:**

Prepared For: The Troy (NY) Record

Date Published: September 25, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

Reference Type: D

ReferenceID: 141

Title: ***G.E. Agrees to Clean Part of Tainted River in Massachusetts***

Location: AEM

Category: Site Update

Prepared by/Author: David Stout

**Preparer/Author
Address:**

Prepared For: The New York (NY) Times

Date Published: September 25, 1998

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 142

Title: ***GE to pay for cleanup of PCBs in Pittsfield***

Location: AEM

Category: Site Update

Prepared by/Author: Paul Zielbauer

**Preparer/Author
Address:**

Prepared For: The Albany (NY) Times Union

Date Published: September 25, 1998

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 143

Title: ***General Electric Agrees to \$200 Million Settlement to Clean Up the Housatonic River***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:** AOLNews@aol.com

Prepared For: General Public

Date Published: September 24, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: D
Title: *GE to pay cleanup costs for transformer site*
Location: AEM
Category: Site Update
Prepared by/Author: Bette Hileman
Preparer/Author Address: Chemical and Engineering News
Washington, DC
Prepared For: Chemical and Engineering News (C&EN)
Date Published: October 5, 1998
Key Words and Phrases:

ReferenceID: 144

Reference Type: D
Title: *GE to Clean PCBs from Housatonic*
Location: AEM
Category: Site Update
Prepared by/Author:
Preparer/Author Address:
Prepared For: Engineering News-Record (ENR)
Date Published: January 6, 1997
Key Words and Phrases:

ReferenceID: 145

Reference Type: D
Title: *Court asked to intervene in GE cleanup agreement*
Location: AEM
Category: Legal
Prepared by/Author:
Preparer/Author Address:
Prepared For: The Worcester (MA) Telegram & Gazette
Date Published: February 22, 2000
Key Words and Phrases:

ReferenceID: 146

REFERENCES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

Reference Type: D

ReferenceID: 391

Title: ***Levels of PCB's in the Housatonic, And in Its Fish, Are on the Decline***

Location: AEM

Category: Fish/Biota

Prepared by/Author: David Lombino

**Preparer/Author
Address:**

Prepared For: The Litchfield (CT) County Times

Date Published: April 19, 2002

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 468

Title: ***EPA: PCBs in Housatonic Pose Risks to Human Health***

Location: AEM

Category: Risk Assessment

Prepared by/Author: Jack Dew

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: June 12, 2003

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 469

Title: ***Restoration Ideas Floated for Future of Silver Lake***

Location: AEM

Category: Site Update

Prepared by/Author: Jack Dew

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: October 23, 2003

**Key Words and
Phrases:**

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: D

ReferenceID: 470

Title: *PCB Report Comes Under Fire*

Location: AEM

Category: Risk Assessment

Prepared by/Author: Jack Dew

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: November 19, 2003

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 498

Title: *EPA Receives Feedback on Ecological Risk Assessment*

Location: AEM

Category: Site Update

Prepared by/Author: Kelly Wilkinson

**Preparer/Author
Address:**

Prepared For: WAMC (Albany, NY)

Date Published: January 14, 2004

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 516

Title: *Scientists Uphold River Findings*

Location: AEM

Category: Site Update

Prepared by/Author: Jack Dew

**Preparer/Author
Address:**

Prepared For: The Pittsfield (MA) Berkshire Eagle

Date Published: January 17, 2004

**Key Words and
Phrases:**

REFERENCES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

Reference Type: D
Title: *Silver Lake to be Restored*
Location: AEM
Category: Site Update
Prepared by/Author: Bill Carey
Preparer/Author Address:
Prepared For: The Pittsfield (MA) Berkshire Eagle
Date Published: May 21, 2004
Key Words and Phrases: Silver Lake, MA

ReferenceID: 520

Reference Type: I
Title: *PCB-Contaminated Sediment Evaluation Results in Identification of Clear Solutions*
Location: AEM
Category: Site Update
Prepared by/Author: Roy F. Weston, Inc.
Preparer/Author Address: 1400 Weston Way
P.O. Box 2653
West Chester, PA 19380
Prepared For: Distribution
Date Published: 2001 circa
Key Words and Phrases:

ReferenceID: 55

Reference Type: J
Title: *GE/Housatonic River Site: Rest of River*
Location: AEM
Category: Site Update
Prepared by/Author: US EPA Region I
Preparer/Author Address: <http://www.epa.gov/region01/ge/thesite/restofriver.html>
Prepared For: General Public
Date Published: July 18, 2000
Key Words and Phrases:

ReferenceID: 20

REFERENCES

Project Name HOUSATONIC RIVER - PROJECT 4 (Rest of River)

ProjectID: 01-13

Reference Type: K

ReferenceID: 22

Title: *River Reconnaissance Photographs (May 31, 2000)*

Location: AEM

Category: Remedial Design

Prepared by/Author: AEM, Inc.

**Preparer/Author
Address:**

Prepared For: Distribution

Date Published: May 31, 2000

**Key Words and
Phrases:**

Reference Type: M

ReferenceID: 72

Title: *Endocrine Biomarkers, Organochlorine Pesticides, and Congener Specific Polychlorinated Biphenyls (PCBs) in Largemouth Bass (Micropterus Salmoides) from Woods Pond, Housatonic River, Massachusetts, September 1994 and May 1995.*

Location: AEM

Category: Fish/Biota

Prepared by/Author: Stephen B. Smith and James F. Coles

**Preparer/Author
Address:** U.S. Geological Survey
Reston, VA

Prepared For: US EPA

Date Published: 1997

**Key Words and
Phrases:**

Reference Type: S

ReferenceID: 13

Title: *EPA Summary of Agreement: General Electric/Pittsfield - Housatonic River Site*

Location: AEM

Category: Legal

Prepared by/Author: US EPA Region I

**Preparer/Author
Address:**

Prepared For: Settling Parties

Date Published: October 7, 1999

**Key Words and
Phrases:**

MODELING

Project Name: HOUSATONIC RIVER - PROJECT 4 (Rest of River) **ProjectID:** 01-13

Last Updated: 08/15/02

Modeling Performed: Watershed, Hydrodynamic, Fate and Effect, and Water Quality

Modeling Objectives: As described in Reference A-724: “The objectives of the hydrodynamic and fate and effect and water quality modeling task are to:

- Quantify future spatial and temporal distribution of PCBs (both dissolved and particulate forms) within the water column and bed sediment.
- Quantify the historical and relative contributions of various sources of PCBs on ambient water quality and bed sediment.
- Quantify the historical and relative contribution of various PCB sources to bioaccumulation in targeted species.
- Estimate the time required for PCB-laden sediment to be effectively sequestered by the deposition of “clean” sediment (i.e., natural recovery).
- Estimate the time required for PCB concentrations in fish tissue or other biota to be reduced to levels that no longer pose either a human health or ecological risk based on various remediation and restoration scenarios, including natural recovery.
- Quantify the relative risk(s) of extreme storm event(s) contributing to the resuspension of sequestered sediment or the redistribution of PCB-laden sediment within the area of study.”

Modeling Description:

Company Performing Modeling: Hydro Qual, Inc.

Modeling Status: Ongoing

Modeling Summary:

FISH ADVISORIES

Project Name ***HOUSATONIC RIVER - PROJECT 4 (Rest of River)***

ProjectID: 01-13

<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 922
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	bass	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741
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<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 923
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	bass	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741
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<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 921
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	bullhead	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741

FISH ADVISORIES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 924
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	bullhead	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741
<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 912
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	carp	
<i>Population:</i>	NCGP	
<i>Population Definition:</i>	No Consumption-General Population: Advise against consumption by the general population.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741
<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 920
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	carp	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741

FISH ADVISORIES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

Advisory: Housatonic River ***AdvisoryID:*** 913
Extent: (above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic
Pollutant: PCBs (total)
Species: catfish
Population: NCGP
Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River ***Advisory Number:*** 62
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: Brian Toal ***Contact Number:*** 860-509-7741

Advisory: Housatonic River ***AdvisoryID:*** 919
Extent: (above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic
Pollutant: PCBs (total)
Species: catfish
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:*** 62
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: Brian Toal ***Contact Number:*** 860-509-7741

Advisory: Housatonic River ***AdvisoryID:*** 914
Extent: (above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic
Pollutant: PCBs (total)
Species: eel-american
Population: NCGP
Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River ***Advisory Number:*** 62
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: Brian Toal ***Contact Number:*** 860-509-7741

FISH ADVISORIES

Project Name ***HOUSATONIC RIVER - PROJECT 4 (Rest of River)***

ProjectID: 01-13

<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 918
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	eel-american	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741
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<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 917
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	perch-white	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741
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<i>Advisory:</i>	Housatonic River	<i>AdvisoryID:</i> 925
<i>Extent:</i>	(above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	perch-white	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 62
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Brian Toal	<i>Contact Number:</i> 860-509-7741

FISH ADVISORIES

Project Name **HOUSATONIC RIVER - PROJECT 4 (Rest of River)**

ProjectID: 01-13

Advisory: Housatonic River ***AdvisoryID:*** 915
Extent: (above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic
Pollutant: PCBs (total)
Species: trout
Population: NCGP
Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River ***Advisory Number:*** 62
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: Brian Toal ***Contact Number:*** 860-509-7741

Advisory: Housatonic River ***AdvisoryID:*** 916
Extent: (above Derby Dam) Includes Lakes Zoar, Lillnonah, and Housatonic
Pollutant: PCBs (total)
Species: trout
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:*** 62
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: Brian Toal ***Contact Number:*** 860-509-7741

Advisory: Housatonic River ***AdvisoryID:*** 909
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

FISH ADVISORIES

Project Name ***HOUSATONIC RIVER - PROJECT 4 (Rest of River)***

ProjectID: 01-13

Advisory: Housatonic River ***AdvisoryID:*** 908
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:*** 910
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

Advisory: Housatonic River ***AdvisoryID:*** 907
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:*** 188
Status (Active or Rescinded): Active ***Date Rescinded:***
Contact Name: Elaine Krueger ***Contact Number:*** 617-624-5757

FISH ADVISORIES

Project Name ***HOUSATONIC RIVER - PROJECT 4 (Rest of River)***

ProjectID: 01-13

Advisory: Housatonic River

AdvisoryID: 911

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: 906

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
