

# ***Tables***

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

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Upper ½ Mile Reach Removal Action

Table 2-1

Chemical-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>Federal ARARs</b>				
Clean Water Act, Ambient Water Quality Criteria	33 USC 1314 40 CFR 131.36(b)(1) 63 Fed. Reg. 68359	National recommended criteria for surface water quality.  PCB Criteria:  For protection of freshwater aquatic life due to chronic exposure: 0.014 ppb  For protection of human health from consumption of water and organisms: 0.00017 ppb  Various numerical criteria for other constituents.	Relevant and appropriate for in-stream evaluation.	Surface water monitoring for PCBs will be conducted during and after Removal Action. See Section 11.2 of Work Plan. If criteria for PCBs are not attained -- or if future monitoring for other constituents (if any) indicates that criteria for such constituents are not attained in-stream -- no further response actions to attain the criteria shall be required as part of this Removal Action (beyond the actions described in this Work Plan), because EPA has determined that such further response actions are not practicable as they are beyond the scope of the Removal Action.
<b>State ARARs</b>				
Mass. Water Quality Standards	314 CMR 3.10(3) 314 CMR 4.05(5)(e)	Establishes federal water quality criteria as allowable water quality concentrations; allows for site-specific limit where federal criteria are "invalid" due to site-specific conditions.	Relevant and appropriate for in-stream evaluation.	See above discussion of federal water quality criteria.

Upper ½ Mile Reach Removal Action

Table 2-1

Chemical-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>Guidances Considered</b>				
Cancer Slope Factors (CSFs)	---	Guidance values used to evaluate the potential carcinogenic hazard caused by exposure to contaminants.	To be considered.	EPA considered this guidance in the development of this Removal Action.
Reference Doses (RfDs)	---	Guidance values used to evaluate the potential non-carcinogenic hazard caused by exposure to contaminants.	To be considered.	EPA considered this guidance in the development of this Removal Action.
PCBs: Cancer Dose - Response Assessment and Application to Environmental Mixtures	EPA/600/P-96/001F (September 1996)	Guidance regarding EPA's reassessment of the carcinogenicity of PCBs. It includes revised cancer slope factors for PCBs based upon the exposure pathway.	To be considered.	EPA considered this guidance in the development of this Removal Action.

Upper ½ Mile Reach Removal Action

Table 2-2

Action-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>A. Excavation of Bank Soils and River Sediments (including installation of sheet piling to partially re-route river) and Covering/Restoration of Excavated Areas</b>				
<b>Federal ARARs</b>				
TSCA Regulations re PCB Remediation Waste	40 CFR 761.61(c)	Establishes cleanup options for PCB remediation waste, including PCB-contaminated soils and sediments. Options include risk-based approval by USEPA. Parties seeking risk-based approval must demonstrate that cleanup plan will not pose an unreasonable risk of injury to health or the environment.	Applicable	Will be attained based on USEPA finding that removal action conducted in accordance with this Work Plan will result in no unreasonable risk of injury to health or the environment.
TSCA Regulations re Decontamination	40 CFR 761.79	Establishes decontamination standards and procedures for removing PCBs from non-porous surfaces.	Applicable to decontamination of equipment and sheet piling used in excavation and restoration activities.	Will be attained.

Upper ½ Mile Reach Removal Action

Table 2-2

Action-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>A. Excavation of Bank Soils and River Sediments (including installation of sheet piling to partially re-route river) and Covering/Restoration of Excavated Areas (cont'd)</b>				
<b>Federal ARARs (cont'd)</b>				
Clean Water Act NPDES Regulations (Stormwater Discharges)	40 CFR 122.26(c)(1) (ii)(C) 40 CFR 122.44(k) 40 CFR 125.100-.104	Best management practices to control pollutants in storm water discharges during construction activities.	Applicable.	Will be attained through the adoption of best management practices for erosion and sedimentation control to minimize the potential for rainfall or flood-induced migration of soils from disturbed areas. See Sections 6.3 and 8.4.5 of Work Plan.
<b>State ARARs</b>				
Mass. Air Pollution Control Requirements	310 CMR 7.09	Prohibition against creating condition of air pollution in connection with dust-generating activity.	Applicable to construction activities generating dust.	Will be attained. GE will conduct air monitoring for PM <sub>10</sub> and any exceedances will be reported and addressed promptly. See Section 11.4 of Work Plan.

Upper ½ Mile Reach Removal Action

Table 2-2

Action-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>B. Discharge of Treated Waters to Housatonic River</b>				
<b>Federal ARARs</b>				
Clean Water Act, NPDES Regulations	33 USC 1342 40 CFR 122, esp. 122.44(a), (e) 40 CFR 125.1-125.3	BAT effluent limits for toxic and non-conventional pollutants; BCT limits for conventional pollutants; water-quality based effluent limitations. Discharges in accordance with instructions of On-Scene Coordinator acting pursuant to NCP are exempt from NPDES permit requirements.	Applicable to point source discharges of treated waters to Housatonic River.	Will be attained. Discharges from GE's existing Groundwater Treatment Facility will meet existing NPDES permit limits, and discharges from portable treatment plant will meet emergency limits identical to these established for Building 68 removal action (0.5 ppb PCBs).
	40 CFR 125.100-.104	Best management practices to prevent release of toxics to surface water from ancillary areas or spills.	Same as above.	Same as above.

Upper 1/2 Mile Reach Removal Action

Table 2-2

Action-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>B. Discharge of Treated Waters to Housatonic River (cont'd)</b>				
<b>Federal ARARs (cont'd)</b>				
TSCA Regulations	40 CFR 761.50(a)(3)	Prohibits discharge of water containing PCBs to navigable waters unless PCB concentration is < approximately 3 ppb or in accordance with discharge limits of NPDES permit.	Applicable to discharge of treated waters to Housatonic River.	Will be attained. See discussion of federal Clean Water Act NPDES regulations above.
<b>State ARARS</b>				
Mass. Clean Water Act - Discharge Regulations and Water Quality Standards	314 CMR 3.10 314 CMR 3.19 314 CMR 4.05(5)(e)	Effluent limitations and other conditions for point source discharges; state water quality standards.	Applicable to point source discharges of treated waters to Housatonic River.	For effluent discharges, see discussion of federal Clean Water Act NPDES regulations above. For in-stream attainment, see Table 2-1.

Upper 1/2 Mile Reach Removal Action

Table 2-2

Action-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>C. Temporary On-Site Storage/Accumulation of Excavated Sediments and Soils</b>				
<b>Federal ARARs</b>				
TSCA Regulations	40 CFR 761.61(c)	Provides for risk-based approval from USEPA to store PCB-remediation waste based upon demonstration that storage plan will not pose an unreasonable risk of injury to health or the environment.	Applicable.	Will be attained based on USEPA finding that storage conducted in accordance with Section 10.3 of Work Plan will result in no unreasonable risk of injury to health or the environment. Note that temporary storage areas will be lined with synthetic material and stored material will be covered by impermeable material. Temporary storage requirements for marking and inspections will be met.
<b>D. Permanent On-Site Consolidation of Excavated Sediments and Soils</b>				
ARARs to be listed in Statement of Work for Removal Actions Outside the River (to be attached to Consent Decree).				



Upper 1/2 Mile Reach Removal Action

Table 2-2

Action-Specific ARARs

Regulation	Citation	Criterion/Standard	Applicability/Appropriateness	Determination Regarding Attainment
<b>E. Other</b>				
<b>Federal ARARs</b>				
TSCA PCB Spill Cleanup Policy	40 CFR 761, Subpart G (§ 761.120 et seq.)	Policy used to determine adequacy of cleanup of spills resulting from the release of materials containing PCBs at concentration of 50 ppm or greater.	TBC for PCB spills or leakage from cleanup.	GE will consider and address cleanup policy for any new PCB spills that occur during the work.

Upper ½ Mile Reach Removal Action

Table 2-3

Location-Specific ARARs

Regulation	Citation	Requirements	Applicability/Appropriateness	Determination Regarding Attainment
<b>A. Rivers and Streams</b>				
<b>Federal ARARs</b>				
Fish & Wildlife Coordination Act Requirements	16 USC 662, 663 40 CFR 6.302(g)	Requires development of measures to prevent, mitigate, and compensate for loss of fish and wildlife resources to the maximum extent possible.	Relevant and appropriate.	Will be attained by conducting in-stream work using phased approach that will include precautions against erosion and scour of river sediments and bank soils, and by restoring aquatic habitat. See Sections 6.3, 7, and 9.1 of Work Plan.

Upper ½ Mile Reach Removal Action

Table 2-3

Location-Specific ARARs

Regulation	Citation	Requirements	Applicability/Appropriateness	Determination Regarding Attainment
<b>A. Rivers and Streams (cont'd)</b>				
<b>Federal ARARs (cont'd)</b>				
Clean Water Act § 404 Requirements	33 USC 1344 33 CFR Parts 320-323 40 CFR 230	For discharge of dredged or fill material into water bodies or wetlands, there must be no practical alternative with less adverse impact on aquatic ecosystem; discharge cannot cause or contribute to violation of state water quality standard or toxic effluent standard or jeopardize threatened or endangered (T&E) species; discharge cannot significantly degrade waters of U.S.; must take practicable steps to minimize and mitigate adverse impacts; must evaluate impacts on flood level, flood velocity, and flood storage capacity.	Applicable to discharge of dredged or fill material to waters of U.S.	Based on analyses in sections 5.3, 6.3, 7, 8, and 9 of Work Plan, will be attained in part because (a) there is no practical alternative with less adverse impact; (b) all practical measures will be taken to minimize and mitigate any adverse impacts from the work; (c) habitat assessment indicates no likely impact on T&E species; (d) actions will be taken to minimize impact of hydrologic changes during the work; (e) after completion of the work, there will be no significant net loss of flood storage capacity, and no significant net increase in flood stage or velocities; and (f) river and river banks will be restored and habitat will be improved. To the extent that discharges occurring during performance of the Removal Action may cause or contribute to exceedances of state water quality standards or toxic effluent standards or to degradation of water quality, EPA has determined that it is not practicable to avoid such temporary impacts while work is being conducted.

Upper ½ Mile Reach Removal Action

Table 2-3

Location-Specific ARARs

Regulation	Citation	Requirements	Applicability/Appropriateness	Determination Regarding Attainment
<b>A. Rivers and Streams (cont'd)</b>				
<b>State ARARs</b>				
Mass. Clean Water Act - Water Quality Certification Regulations	314 CMR 9.06	For discharge of dredged or fill material, there must be no practicable alternative with less adverse impact on aquatic ecosystem; must take practicable steps to minimize adverse impacts on wetlands or land under water; stormwater discharges must be controlled with BMPs; must be no substantial adverse impact to physical, chemical, or biological integrity of surface waters.	Applicable to dredging of waters of U.S. within Mass.	Will be attained because (a) there is no practicable alternative with less adverse impact on the aquatic ecosystem; (b) all practical measures will be taken to minimize adverse impacts on wetlands and land under water; (c) stormwater discharges will be controlled through BMPs; and (d) there will be no substantial long-term adverse impacts to integrity of river waters. See Sections 6.3, 7, 8, and 9 of Work Plan.
	314 CMR 9.07	Hydraulic or mechanical dredging allowed; must avoid fisheries impacts.	Applicable to dredging of waters of U.S. within Mass.	Will be attained. There are no significant fisheries in area at present and aquatic habitat will be restored. See Sections 5.1 and 9.1 of Work Plan.

Upper ½ Mile Reach Removal Action

Table 2-3

Location-Specific ARARs

Regulation	Citation	Requirements	Applicability/Appropriateness	Determination Regarding Attainment
<b>A. Rivers and Streams (cont'd)</b>				
<b>State ARARs (cont'd)</b>				
Mass. Wetlands Protection Act and Regulations	MGL c. 131 § 40 310 CMR 10.53(3)(q) 310 CMR 10.54, 10.56-.58	Actions responding to the release or threat of release of hazardous materials must, to the maximum extent practicable, avoid/minimize hydrological and other adverse impacts; use BMPs to prevent erosion/siltation; implement mitigating measures; provide compensatory storage for lost flood storage capacity; avoid increase in flood stage or velocity; and restore disturbed vegetation. In addition, there must be no practical alternatives to the project consistent with the MCP that would be less damaging to resource areas.	Applicable to response action activities altering or within 100 feet of stream banks or land underlying Housatonic River or altering floodplain or riverfront area.	Will be attained because (a) there is no practicable alternative that would be less damaging to resource areas; (b) all practical measures will be taken to minimize adverse impacts on wetlands; (c) stormwater discharges will be controlled through BMPs; (d) actions will be taken to minimize impact of hydrologic changes during the work to the extent practicable; (e) after completion of the work, there will be no significant net loss of flood storage capacity and no significant net increase in flood storage or velocities; and (f) disturbed vegetation will be restored. See Sections 6.3, 7, 8, and 9 of Work Plan.

Upper ½ Mile Reach Removal Action

Table 2-3

Location-Specific ARARs

Regulation	Citation	Requirements	Applicability/Appropriateness	Determination Regarding Attainment
<b>B. Floodplains, Wetlands, and Stream Banks</b>				
<b>Federal ARARs</b>				
Executive Order for Wetlands Protection	Exec. Order 11990 (1977) 40 CFR 6.302(a) 40 CFR Part 6, App. A	Actions in wetlands must avoid adverse impacts on wetlands where possible, minimize wetland destruction, and preserve wetlands value.	Relevant and appropriate.	Will be attained because there is no practical alternative to work in wetlands with less adverse impact and all practicable measures will be taken to minimize and mitigate any adverse impacts. Erosion and sedimentation control measures will be adopted during removal and restoration activities, and habitat will be restored and enhanced. See Section 6.3, 8.4.5, and 9.2 of Work Plan.
Executive Order for Floodplain Management	Exec. Order 11988 (1977) 40 CFR Part 6, App. A. 40 CFR 6.302(b)	Actions in floodplain must avoid/minimize adverse effects to floodplain and restore/preserve natural values where practicable.	Relevant and appropriate.	Will be attained because there is no practical alternative to work in floodplains with less adverse impact and all practicable measures will be taken to minimize and mitigate any adverse impacts. Erosion and sedimentation control measures will be adopted during removal and restoration activities, habitat will be restored and enhanced, and flood storage capacity will be restored. See Sections 6.3, 7.5, 8.4.5, and 9.2 of Work Plan.

Upper ½ Mile Reach Removal Action

Table 2-3

Location-Specific ARARs

Regulation	Citation	Requirements	Applicability/Appropriateness	Determination Regarding Attainment
<b>B. Floodplains, Wetlands, and Stream Banks (cont'd)</b>				
<b>Federal ARARs (cont'd)</b>				
Clean Water Act § 404 Requirements	33 USC 1344 33 CFR Parts 320-323 40 CFR 230	See discussion of federal Clean Water Act § 404 requirements above.	See discussion of federal Clean Water Act § 404 requirements above.	See discussion of federal Clean Water Act § 404 requirements above.
<b>State ARARs</b>				
Mass. Wetlands Protection Act and Regulations	MGL c. 131 § 40 310 CMR 10.53(3)(q) 310 CMR 10.54, 10.56-.58	See discussion of Mass. Wetlands Protection Act requirements above.	See discussion of Mass. Wetlands Protection Act requirements above.	See discussion of Mass. Wetlands Protection Act requirements above.
Mass. Clean Water Act - Water Quality Certification Regulations	314 CMR 9.06	See discussion of Mass. Water Quality Certification requirements above.	See discussion of Mass. Water Quality Certification requirements above.	See discussion of Mass. Water Quality Certification requirements above.

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TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	HCSE-5 0-1.1 1990-1991	HCSE-15 0-1.8 10-11/94	T001-SD010011 0.5-1 10/7/98	T002-SD010023 1-1.5 10/6/98	T003-SD010032 0.5-1 10/7/98	T004-SD010041 0.5-1 10/6/98	T005-SD010053 0.5-1 10/5/98
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
1,2,4-Trichlorobenzene	ND(0.226)	ND(1.4)	0.025 J {ND(0.39)}	ND(0.41)	0.03 J	ND(0.46)	ND(0.47) {ND(0.52)}
1,2-Dichlorobenzene	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
1,3-Dichlorobenzene	ND(0.56)	0.53J	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	0.053 J {ND(0.52)}
1,4-Dichlorobenzene	0.18J	ND(1.2)	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	0.058 J	0.34 J {ND(0.52)}
2,4-Dimethylphenol	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
2-Methylnaphthalene	ND(0.23)	5.6	ND(0.41) {ND(0.39)}	ND(0.41)	0.44	0.033 J	1.7 {0.66}
2-Methylphenol	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
4-Methylphenol	ND(0.81)	ND(4.6)	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
7,12-Dimethylbenz(a)anthracene	NS	NS	ND(0.41) {ND(0.77)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(1.0)}
Acenaphthene	0.19J	6.4	ND(0.41) {ND(0.39)}	ND(0.41)	0.72	0.18 J	2 {0.94}
Acenaphthylene	ND(0.27)	0.67J	0.019 J {0.057 J}	ND(0.41)	0.028 J	0.043 J	ND(0.47) {ND(0.52)}
Acetophenone	NS	NS	ND(0.41) {ND(0.39)}	0.02 J	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
Aniline	ND(0.34)	0.93J	ND(1) {ND(0.39)}	ND(1)	ND(0.96)	ND(1.2)	ND(1.2) {ND(0.52)}
Anthracene	ND(0.23)	2.9J	0.045 J {0.062 J}	ND(0.41)	0.26 J	0.053 J	0.053 J {0.046 J}
Benzo(a)anthracene	ND(0.26)	0.84J	0.25 J {0.22 J}	0.031 J	0.2 J	0.19 J	0.1 J {0.089 J}
Benzo(a)pyrene	ND(0.30)	0.90J	0.25 J {0.23 J}	0.028 J	0.21 J	0.2 J	0.1 J {0.085 J}
Benzo(b)fluoranthene	ND(1.9)	0.73J	0.21 J {0.28 J}	0.019 J	0.15 J	0.18 J	0.097 J {ND(0.52)}
Benzo(g,h,i)perylene	ND(0.36)	ND(2.0)	0.19 J {0.12 J}	0.02 J	0.13 J	0.16 J	0.087 J {ND(0.52)}
Benzo(k)fluoranthene	ND(1.9)	0.69J	0.21 J {0.13 J}	0.025 J	0.19 J	0.16 J	0.1 J {0.23 J}
bis(2-Ethylhexyl)phthalate	0.55JB	ND(1.9)	ND(0.41) {0.041 J}	0.044 J	0.018 J	0.048 J	0.056 J {0.048 J}
Butylbenzylphthalate	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
Chrysene	0.1J	1.1J	0.33 J {0.28 J}	0.051 J	0.25 J	0.24 J	0.13 J {0.10 J}
Di-n-Butylphthalate	NS	NS	0.41 J {ND(0.39)}	ND(0.41)	0.03 J	0.029 J	0.13 J {ND(0.52)}
Dibenzo(a,h)anthracene	ND(0.24)	ND(1.4)	0.043 J {0.039 J}	ND(0.41)	0.036 J	0.04 J	0.037 J {ND(0.52)}
Dibenzofuran	ND(0.28)	ND(1.6)	ND(0.41) {ND(0.39)}	ND(0.41)	0.023 J	ND(0.46)	0.051 J {ND(0.52)}
Diethylphthalate	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
Fluoranthene	0.68J	2.2J	0.64 {0.63}	0.069 J	0.34 J	0.42 J	0.2 J {0.22 J}
Fluorene	0.094J	3.9J	0.04 J {0.045 J}	ND(0.41)	0.2 J	0.048 J	0.22 J {0.10 J}
Hexachlorobenzene	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
Indeno(1,2,3-cd)pyrene	ND(0.36)	0.45J	0.16 J {0.12 J}	ND(0.41)	0.12 J	0.14 J	0.075 J {ND(0.52)}
Isophorone	NS	NS	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
N-Nitrosodiphenylamine	ND(1.1)	ND(2.4)	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
Naphthalene	ND(0.26)	0.78J	0.021 J {ND(0.39)}	0.025 J	2.7	0.17 J	27 {5.6}
Pentachlorobenzene	ND(0.25)	ND(1.4)	0.09 J {0.065 J}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
Phenanthrene	0.13J	14	0.52 J {0.49}	0.1 J	1.3 J	0.34 J	0.4 J {0.24 J}
Phenol	ND(0.21)	ND(1.2)	ND(0.41) {ND(0.39)}	ND(0.41)	ND(0.38)	ND(0.46)	ND(0.47) {ND(0.52)}
Pyrene	0.96	2.5J	0.58 {0.50}	0.12 J	0.46	0.41 J	0.24 J {0.17 J}



TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	HCSE-5 0-1.1 1990-1991	HCSE-15 0-1.8 10-11/94	T001-SD010011 0.5-1 10/7/98	T002-SD010023 1-1.5 10/6/98	T003-SD010032 0.5-1 10/7/98	T004-SD010041 0.5-1 10/6/98	T005-SD010053 0.5-1 10/5/98
<b>Organochlorine Pesticides</b>							
4,4'-DDT	NS	NS	ND(12)	ND(2.1)	ND(0.4)	ND(0.048)	ND(0.097)
Beta-BHC	NS	NS	ND(6.3)	ND(1)	ND(0.2)	ND(0.024)	ND(0.048)
Dieldrin	NS	NS	ND(12)	ND(2.1)	ND(0.4)	R	ND(0.097)
Endosulfan Sulfate	NS	NS	ND(12)	ND(2.1)	ND(0.4)	ND(0.048)	ND(0.097)
Gamma-BHC (Lindane)	NS	NS	ND(6.3)	ND(1)	ND(0.2)	ND(0.024)	ND(0.048)
Heptachlor Epoxide	NS	NS	ND(6.3)	ND(1)	ND(0.2)	ND(0.024)	0.057 J
Kepona	NS	NS	R	R	R	R	R
<b>Dioxins/ Furans</b>							
WHO TEQ	NC	3.70E-04	9.33E-05	1.94E-08	7.78E-06	3.16E-06	1.02E-05
<b>Inorganics</b>							
Antimony	ND(4.0)	ND(6.6)	ND(0.94) {0.180 B}	ND(0.68)	ND(0.84)	ND(0.83)	1.6 {0.630 B}
Arsenic	ND(5.0)	2.8	1.7 {1.00 B}	0.91	0.75	1.4	2.9 {4.80}
Barium	15.3	86.7	8.6 {8.20 B}	9.9	7.7	24.2	38 {49.9}
Beryllium	ND(0.1)	0.27J*	0.14 J {0.110 B}	0.11	0.090 J	0.14	0.11 {0.330 B}
Cadmium	NS	NS	0.1 {0.0300 B}	ND(0.03)	0.12	ND(0.04)	ND(0.03) {0.430 B}
Chromium	18.0	26.2	5.3 {5.50}	4.5	5.9	9.1	13.9 {21.9}
Cobalt	6.0	6.1J*	3.7 {3.90 B}	4.1	3.2	5.7	6.5 {10.6}
Copper	20.0	129	6.8 {3.70}	4.1	5.1	13.7	22.7 {26.4}
Lead	20.0	140	6.9 J {5.00}	2.3 J	5.1 J	11.9 J	30.8 J {39.1}
Mercury	ND(0.1)	0.28	ND(0.02) {0.0270 B}	ND(0.02)	ND(0.02)	0.03	0.06 {0.140 B}
Nickel	17.0	13.9	6.2 {6.10}	6.1 J	4.8	9.4 J	10.6 J {17.4}
Selenium	ND(7.0)	0.38J*	ND(0.55) {0.490 B}	ND(0.51)	ND(0.5)	ND(0.63)	ND(0.51) {ND(0.790)}
Silver	ND(0.6)	ND(0.66)	ND(0.34) {ND(1.20)}	ND(0.31)	ND(0.3)	ND(0.38)	ND(0.31) {ND(1.60)}
Thallium	NS	NS	ND(0.79) {0.720 B}	ND(0.73)	ND(0.71)	ND(0.9)	ND(0.74) {2.10}
Tin	14.0	ND(66.4)	1.6 {ND(11.7)}	0.96	1.3	1.6	5.4 {ND(15.8)}
Vanadium	7.0	11.4	3.8 {3.10 B}	4.5	3.5	7.7	7.3 {12.4}
Zinc	40.4B	157	25.8 J {27.9}	27.7	33.7 J	51.7	72.7 {99.3}
Cyanide	ND(1.0)	ND(0.68)	ND(2.3) {ND(2.90)}	ND(0.63)	ND(0.58)	ND(0.72)	ND(0.7) {ND(3.90)}
Sulfide	180	48	ND(6) {ND(58.4)}	ND(6)	ND(5.7)	ND(6.9)	16.8 {103}

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T006-SD010062 1.5-2 10/5/98	T007-SD010071 0.5-1 10/2/98	T008-SD010083 0.5-1 10/2/98	T009-SD010091 0.5-1 10/1/98	T010-SD010103 0-0.5 10/12/98	T011-SD010113 0.5-1 10/1/98	T012-SD010122 0.5-1 10/1/98	T013-SD010133 0-0.5 10/12/98
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
1,2,4-Trichlorobenzene	ND(0.44) {ND(0.46)}	ND(0.37)	0.088 J	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
1,2-Dichlorobenzene	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
1,3-Dichlorobenzene	0.023 J {ND(0.46)}	ND(0.37)	0.059 J	0.13 J	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
1,4-Dichlorobenzene	0.24 J {ND(0.46)}	ND(0.37)	0.54 J	0.53 J	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
2,4-Dimethylphenol	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
2-Methylnaphthalene	0.64 {0.29 J}	0.18 J	0.38 J	1.1	ND(0.43)	ND(0.41)	0.14 J	ND(0.36) {ND(0.39)}
2-Methylphenol	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
4-Methylphenol	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
7,12-Dimethylbenz(a)anthracene	ND(0.44) {ND(0.91)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.79)}
Acenaphthene	1.7 {0.97}	0.16 J	1.5	0.56 J	ND(0.43)	ND(0.41)	0.22 J	ND(0.36) {ND(0.39)}
Acenaphthylene	ND(0.44) {ND(0.46)}	0.1 J	0.08 J	0.67 J	ND(0.43)	ND(0.41)	0.035 J	ND(0.36) {ND(0.39)}
Acetophenone	ND(0.44) {ND(0.46)}	ND(0.37)	0.059 J	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	0.019 J {ND(0.39)}
Aniline	ND(1.1) {ND(0.46)}	ND(0.93)	ND(2.2)	ND(2.1)	ND(1.1)	ND(1)	ND(0.94)	ND(0.9) {ND(0.39)}
Anthracene	0.038 J {0.063 J}	0.064 J	0.11 J	0.3 J	0.02 J	ND(0.41)	0.16 J	ND(0.36) {ND(0.39)}
Benzo(a)anthracene	0.08 J {0.10 J}	0.2 J	0.4 J	0.071 J	0.12 J	0.074 J	0.39	0.026 J {0.039 J}
Benzo(a)pyrene	0.082 J {0.095 J}	0.22 J	0.39 J	0.059 J	0.12 J	0.083 J	0.35 J	0.025 J {0.043 J}
Benzo(b)fluoranthene	0.076 J {ND(0.46)}	0.17 J	0.35 J	0.046 J	0.093 J	0.062 J	0.23 J	0.022 J {0.049 J}
Benzo(g,h,i)perylene	0.061 J {ND(0.46)}	0.14 J	0.33 J	0.062 J	0.11 J	0.076 J	0.22 J	0.028 J {ND(0.39)}
Benzo(k)fluoranthene	0.076 J {0.25 J}	0.2 J	0.33 J	0.05 J	0.1 J	0.081 J	0.27 J	0.026 J {ND(0.39)}
bis(2-Ethylhexyl)phthalate	0.046 J {0.048 J}	0.054 J	0.091 J	0.04 J	0.02 J	0.051 J	0.051 J	0.017 J {0.049 J}
Butylbenzylphthalate	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
Chrysene	0.1 J {0.12 J}	0.23 J	0.49 J	0.084 J	0.14 J	0.1 J	0.5	0.036 J {0.046 J}
Di-n-Butylphthalate	0.11 J {ND(0.46)}	0.17 J	0.27 J	0.24 J	ND(0.43)	0.24 J	0.18 J	ND(0.36) {ND(0.39)}
Dibenzo(a,h)anthracene	ND(0.44) {ND(0.46)}	0.04 J	0.08 J	ND(0.85)	0.028 J	0.02 J	0.064 J	ND(0.36) {ND(0.39)}
Dibenzofuran	0.078 J {0.046 J}	0.022 J	0.1 J	0.062 J	ND(0.43)	ND(0.41)	0.052 J	ND(0.36) {ND(0.39)}
Diethylphthalate	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	0.024 J	ND(0.41)	ND(0.38)	0.082 J {ND(0.39)}
Fluoranthene	0.17 J {0.30 J}	0.41	0.5 J	1.1	0.26 J	0.17 J	0.76	0.069 J {0.093 J}
Fluorene	0.47 {0.28 J}	0.094 J	0.86 J	0.3 J	ND(0.43)	ND(0.41)	0.2 J	ND(0.36) {ND(0.39)}
Hexachlorobenzene	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
Indeno(1,2,3-cd)pyrene	0.051 J {ND(0.46)}	0.13 J	0.28 J	0.052 J	0.094 J	0.062 J	0.18 J	0.025 J {ND(0.39)}
Isophorone	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
N-Nitrosodiphenylamine	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
Naphthalene	33 {9.0}	0.37 J	5.1	5.1	ND(0.43)	ND(0.41)	0.32 J	ND(0.36) {ND(0.39)}
Pentachlorobenzene	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
Phenanthrene	0.4 J {0.45 J}	0.44	0.95	1.4	0.12 J	0.091 J	1.3	0.03 J {0.046 J}
Phenol	ND(0.44) {ND(0.46)}	ND(0.37)	ND(0.87)	ND(0.85)	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.36) {ND(0.39)}
Pyrene	0.21 J {0.23 J}	0.43	0.57 J	1.8	0.28 J	0.18 J	1.1	0.06 J {0.073 J}

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T006-SD010062 1.5-2 10/5/98	T007-SD010071 0.5-1 10/2/98	T008-SD010083 0.5-1 10/2/98	T009-SD010091 0.5-1 10/1/98	T010-SD010103 0-0.5 10/12/98	T011-SD010113 0.5-1 10/1/98	T012-SD010122 0.5-1 10/1/98	T013-SD010133 0-0.5 10/12/98
<b>Organochlorine Pesticides</b>								
4,4'-DDT	ND(0.045)	ND(0.019)	ND(1.3)	ND(0.0044)	ND(0.0045)	R	ND(0.39)	ND(0.018)
Beta-BHC	0.026 J	ND(0.0096)	ND(0.67)	ND(0.0022)	ND(0.0022)	ND(0.0063)	ND(0.19)	ND(0.0092)
Dieldrin	ND(0.045)	ND(0.019)	ND(1.3)	ND(0.0044)	ND(0.0045)	ND(0.012)	ND(0.39)	ND(0.018)
Endosulfan Sulfate	ND(0.045)	ND(0.019)	ND(1.3)	ND(0.0044)	ND(0.0045)	ND(0.012)	ND(0.39)	ND(0.018)
Gamma-BHC (Lindane)	0.026 J	ND(0.0096)	ND(0.67)	ND(0.0022)	ND(0.0022)	ND(0.0063)	ND(0.19)	ND(0.0092)
Heptachlor Epoxide	ND(0.023)	ND(0.0096)	ND(0.67)	ND(0.0022)	ND(0.0022)	ND(0.0063)	ND(0.19)	ND(0.0092)
Kepon	R	R	R	R	R	R	R	R
<b>Dioxins/ Furans</b>								
WHO TEF	3.91E-06	1.15E-05	1.54E-05	6.10E-10	2.53E-07	2.02E-07	1.83E-06	5.28E-06
<b>Inorganics</b>								
Antimony	0.71 {ND(1.40)}	ND(1.1)	ND(1)	ND(0.95)	0.69 J	ND(1)	ND(0.99)	ND(0.55) {0.280 B}
Arsenic	1.1 {1.90}	1.6	1.6	5	0.59 J	1.9	2.8	2.8 {2.30}
Barium	13.3 {14.0 B}	6.8 J	12.8 J	21.5	9.3 J	9.5 J	19 J	25.1 {23.6 B}
Beryllium	0.11 {0.160 B}	0.06 J	0.11 J	0.15 J	0.06 J	0.08 J	ND(0.01)	ND(0.01) {0.110 B}
Cadmium	ND(0.03) {0.0820 B}	0.35 J	0.37 J	0.59	ND(0.03)	0.39 J	0.46 J	ND(0.03) {0.0640 B}
Chromium	8.4 {9.20}	15.9	9.7	10.2	4.8	6.2	8.8	2.8 {7.10}
Cobalt	4.3 {6.20 B}	4.5 J	5.4	7.1	3.8 J	5.3	6.9	2.6 J {4.90 B}
Copper	7.9 {9.20}	12.8	13.6	30.5	4.5	7.7	11.8	12 {6.10}
Lead	11.4 J {13.8}	85.8	26.3	38.9	6.9 J	5.7	11.5	92600 J {6.6} {6.60}
Mercury	0.05 {0.0340 B}	0.02 J	0.04 J	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02) {ND(0.120)}
Nickel	7.8 J {16.5}	7.8	8.8	13.5	6.9	8.7	10.6	3.8 {8.10}
Selenium	ND(0.48) {ND(0.690)}	0.9	0.61	ND(0.44)	ND(0.24)	ND(0.47)	0.94	ND(0.21) {0.350 B}
Silver	ND(0.29) {ND(1.40)}	ND(0.13)	ND(0.12)	0.17	0.13	0.18	ND(0.12)	0.32 {ND(1.20)}
Thallium	ND(0.69) {1.20 B}	ND(0.55)	ND(0.52)	0.54 J	ND(0.55)	0.7 J	0.86 J	639 J {0.79} {0.790 B}
Tin	1.6 {ND(13.9)}	1.1	3.2	3.6	1	1.2	0.93	ND(0.57) {ND(11.9)}
Vanadium	6 {5.80 B}	6.7	6.1	8.9	4.5 J	5.6	10.6	2.9 J {5.00 B}
Zinc	41.1 {47.3}	32.1	51.4	63.8	29.7	44.4	54.5	22.4 {41.9}
Cyanide	ND(0.67) {ND(3.50)}	ND(0.57)	ND(0.67)	ND(0.68)	ND(0.64)	ND(0.62)	ND(0.57)	R {ND(3.00)}
Sulfide	14 {78.1}	ND(5.5)	87	12.4	ND(6.4)	ND(6)	ND(5.5)	ND(4.7) {ND(59.5)}

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T014-SD010141 0-0.5 10/9/98	T015-SD010152 0.5-1 9/18/98	T016-SD010161 0.5-1 9/30/98	T017-SD0173 0.5-1 9/11/98	T018-SD010183 0-0.5 9/29/98	T019-SD0193 0-0.5 9/10/98	T020-SD010202 0.5-1 9/29/98
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) {0.075 J [ND(0.42)]}	ND(0.41)	ND(0.43)
1,2,4-Trichlorobenzene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	0.03 J {0.75 J}	ND(0.41)	0.15 J
1,2-Dichlorobenzene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) {ND(0.41) [ND(0.42)]}	ND(0.41)	0.074 J
1,3-Dichlorobenzene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	1
1,4-Dichlorobenzene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	2.9
2,4-Dimethylphenol	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
2-Methylnaphthalene	0.043 J	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	0.06 J
2-Methylphenol	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
4-Methylphenol	0.018 J	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
7,12-Dimethylbenz(a)anthracene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.82) [ND(0.83)]]	ND(0.41)	ND(0.43)
Acenaphthene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	0.1 J
Acenaphthylene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	0.12 J
Acetophenone	0.02 J	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
Aniline	ND(0.96)	ND(1.1)	ND(1.1)	ND(0.94)	ND(1) [ND(0.41) [ND(0.42)]]	ND(1)	ND(1.1)
Anthracene	0.018 J	ND(0.42)	0.027 J	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	0.025 J
Benzo(a)anthracene	0.083 J	ND(0.42)	0.11 J	0.039 J	0.095 J {0.096 J [0.059 J]}	0.086 J	0.1 J
Benzo(a)pyrene	0.11 J	ND(0.42)	0.12 J	0.074 J	0.1 J {0.10 J [0.068 J]}	0.073 J	0.1 J
Benzo(b)fluoranthene	0.09 J	ND(0.42)	0.094 J	0.046 J	0.095 J {0.17 J [0.068 J]}	0.079 J	0.09 J
Benzo(g,h,i)perylene	0.098 J	ND(0.42)	0.091 J	0.072 J	0.078 J [ND(0.41) [ND(0.42)]]	0.065 J	0.075 J
Benzo(k)fluoranthene	0.091 J	ND(0.42)	0.1 J	0.046 J	0.1 J [ND(0.41) [0.069 J]}	0.074 J	0.079 J
bis(2-Ethylhexyl)phthalate	0.036 J	ND(0.42)	0.076 J	ND(0.38)	0.024 J {0.031 J [0.055 J]}	ND(0.41)	0.028 J
Butylbenzylphthalate	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
Chrysene	0.11 J	0.042 J	0.14 J	0.053 J	0.13 J {0.12 J [0.075 J]}	0.094 J	0.14 J
Di-n-Butylphthalate	ND(0.38)	ND(0.42)	0.24 J	0.048 J	0.026 J [ND(0.41) [ND(0.42)]]	0.11 J	0.05 J
Dibenzo(a,h)anthracene	0.043 J	ND(0.42)	0.023 J	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	0.026 J
Dibenzofuran	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
Diethylphthalate	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
Fluoranthene	0.16 J	0.063 J	0.24 J	0.08 J	0.22 J {0.19 J [0.13 J]}	0.22 J	0.17 J
Fluorene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	0.023 J
Hexachlorobenzene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
Indeno(1,2,3-cd)pyrene	0.079 J	ND(0.42)	0.08 J	0.06 J	0.067 J {0.043 J [ND(0.42)]]	0.067 J	0.067 J
Isophorone	ND(0.38)	ND(0.42)	ND(0.43)	0.12 J	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
N-Nitrosodiphenylamine	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
Naphthalene	0.078 J	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	0.53
Pentachlorobenzene	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) {0.088 J [ND(0.42)]]	ND(0.41)	ND(0.43)
Phenanthrene	0.11 J	ND(0.42)	0.16 J	0.047 J	0.14 J {0.096 J [0.065 J]}	0.11 J	0.079 J
Phenol	ND(0.38)	ND(0.42)	ND(0.43)	ND(0.38)	ND(0.41) [ND(0.41) [ND(0.42)]]	ND(0.41)	ND(0.43)
Pyrene	0.18 J	0.066 J	0.28 J	0.078 J	0.26 J {0.19 J [0.13 J]}	0.15 J	0.2 J

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPIX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T014-SD010141 0-0.5 10/9/98	T015-SD0152 0.5-1 9/18/98	T016-SD010161 0.5-1 9/30/98	T017-SD0173 0.5-1 9/11/98	T018-SD010183 0-0.5 9/29/98	T019-SD0193 0-0.5 9/10/98	T020-SD010202 0.5-1 9/29/98
<b>Organochlorine Pesticides</b>							
4,4'-DDT	ND(0.0079)	R	ND(0.0089)	ND(0.012)	ND(0.012) {ND(0.0021) [ND(0.0021)]}	ND(0.042)	ND(0.43)
Beta-BHC	ND(0.004)	ND(0.044)	ND(0.0045)	ND(0.0058)	ND(0.0063) {ND(0.0021) [ND(0.0021)]}	ND(0.021)	ND(0.22)
Dieldrin	ND(0.0079)	ND(0.087)	ND(0.0089)	ND(0.012)	ND(0.012) {ND(0.0021) [0.0022]}	ND(0.042)	ND(0.43)
Endosulfan Sulfate	ND(0.0079)	ND(0.087)	ND(0.0089)	ND(0.012)	ND(0.012) {ND(0.0021) [ND(0.0021)]}	ND(0.042)	ND(0.43)
Gamma-BHC (Lindane)	ND(0.004)	ND(0.044)	ND(0.0045)	ND(0.0058)	ND(0.0063) {ND(0.0021) [ND(0.0021)]}	ND(0.021)	ND(0.22)
Heptachlor Epoxide	ND(0.004)	ND(0.044)	ND(0.0045)	ND(0.0058)	ND(0.0063) {ND(0.0021) [ND(0.0021)]}	ND(0.021)	ND(0.22)
Kepone	R	R	R	R	R {ND(0.041) [ND(0.042)]}	R	R
<b>Dioxins/ Furans</b>							
WHO TEF	1.53E-06	1.52E-07	1.52E-07	3.01E-07	1.81E-06	1.66E-06	1.23E-04
<b>Inorganics</b>							
Antimony	ND(0.88)	ND(1.2)	ND(1.3)	ND(1.1)	ND(0.67) {ND(1.20) J}	ND(1.1)	ND(0.75)
Arsenic	1.9	2.6	2.3	R	2 {1.90 [2.50]}	R	4.5
Barium	14.1	24.5	11.9 J	6.3	13.9 {11.8 B [12.3 B]}	10.9	16.6
Beryllium	0.08 J	0.2	0.13 J	0.14	0.12 {0.140 B [0.140 B]}	0.13	0.06
Cadmium	0.15	0.49	0.42 J	ND(0.1)	ND(0.03) {0.0390 B [0.0680 B]}	ND(0.1)	ND(0.04)
Chromium	6.2	6.9	7.1	5.9 J	7.1 {5.70 [5.80]}	6.8 J	9.6
Cobalt	3.2	5.6	6.6	5.2 J	5.5 {5.10 B [4.90 B]}	5.3 J	7.2
Copper	7	12.5	15	5.1	7.1 {5.40 [6.60]}	18.9	17.1
Lead	12.7 J	6	11.7	4.6 J	7.5 {7.10}	8	17.4
Mercury	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02) {0.0130 B [0.0170 B]}	ND(0.02)	0.08
Nickel	5.5	9.5 J	13.1	7.8	9.5 {8.30 [8.00]}	10	12.1
Selenium	ND(0.52)	ND(0.57)	ND(0.59)	ND(0.42)	ND(0.5) {ND(0.620) [ND(0.630)]}	ND(0.43)	ND(0.57)
Silver	ND(0.32)	ND(0.27)	ND(0.16)	ND(0.34)	ND(0.13) {ND(1.20) [ND(1.30)]}	ND(0.35)	ND(0.15)
Thallium	ND(0.75)	ND(0.76)	ND(0.67)	ND(0.72)	0.62 J {1.30 [1.30]}	ND(0.73)	ND(0.64)
Tin	0.91	1	2.6	1.6	2 J {ND(12.5) [ND(12.6)]}	0.99	2.8 J
Vanadium	4.7	6.4	5.7 J	4.8 J	6.7 {4.90 B [5.00 B]}	5.3 J	7.3
Zinc	29 J	44.7	58.9	37.5	38.7 {32.8 [33.3]}	39.5	51.5
Cyanide	ND(0.6)	ND(0.69)	ND(0.69)	ND(0.58)	ND(0.65) {ND(3.10) [ND(3.20)]}	ND(0.71)	ND(0.66)
Sulfide	6.4 J	37.7 J	ND(6.4)	5.6	ND(6) {ND(62.4) [ND(63.2)]}	6.1	ND(6.2)

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T021-SD0211 0-0.5 9/10/98	T022-SD0221 1-1.5 9/28/98	T023-SD0232 0.5-1 9/10/98	T024-SD0243 0.5-1 9/28/98	T025-SD0251 1.5-2 9/9/98	T026-SD0262 0-0.5 9/28/98	T027-SD0271 1.5-2 9/9/98	T028-SD0281 0-0.5 9/23/98
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	ND(0.34) {ND(0.40)}	57 J {69 J}	0.98	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
1,2,4-Trichlorobenzene	0.16 J {ND(0.40)}	540 {670}	30	ND(0.37)	0.052 J	0.031 J {0.028 J}	0.071 J	0.095 J
1,2-Dichlorobenzene	ND(0.34) {ND(0.40)}	0.79 J {1.4 J}	1.3	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	0.066 J
1,3-Dichlorobenzene	0.11 J {ND(0.40)}	12 J {11 J}	24	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	0.85
1,4-Dichlorobenzene	0.36 {ND(0.40)}	16 J {12}	81	ND(0.37)	0.13 J	0.054 J {ND(0.42)}	0.13 J	2.8
2,4-Dimethylphenol	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
2-Methylnaphthalene	ND(0.34) {ND(0.40)}	0.026 J {ND(4.5)}	0.26 J	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	0.12 J
2-Methylphenol	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
4-Methylphenol	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	0.042 J
7,12-Dimethylbenz(a)anthracene	ND(0.34) {ND(0.81)}	ND(0.42) {ND(9.0)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.84)}	ND(0.42)	ND(0.43)
Acenaphthene	ND(0.34) {ND(0.40)}	0.12 J {ND(4.5)}	0.57	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	0.087 J	2
Acenaphthylene	ND(0.34) {0.14 J}	0.15 J {0.36 J}	0.21 J	ND(0.37)	ND(0.44)	ND(0.4) {0.043 J}	ND(0.42)	ND(0.43)
Acetophenone	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
Aniline	ND(0.86) {ND(0.40)}	ND(1.1) {ND(4.5)}	ND(1.2)	ND(0.93)	ND(1.1)	ND(1) {ND(0.42)}	ND(1)	ND(1.1)
Anthracene	0.046 J {0.081 J}	0.057 J {ND(4.5)}	0.76	ND(0.37)	ND(0.44)	ND(0.4) {0.044 J}	0.039 J	0.46
Benzo(a)anthracene	0.23 J {0.35 J}	0.27 J {0.48 J}	1.5	ND(0.37)	ND(0.44)	0.1 J {0.25 J}	0.11 J	0.28 J
Benzo(a)pyrene	0.2 J {0.41}	0.23 J {0.41 J}	1.3	ND(0.37)	ND(0.44)	0.11 J {0.27 J}	0.094 J	0.25 J
Benzo(b)fluoranthene	0.17 J {0.38 J}	0.22 J {0.43 J}	0.97	ND(0.37)	ND(0.44)	0.1 J {0.21 J}	0.075 J	0.22 J
Benzo(g,h,i)perylene	0.14 J {0.069 J}	0.26 J {ND(4.5)}	0.74	ND(0.37)	ND(0.44)	0.088 J {0.14 J}	0.072 J	0.22 J
Benzo(k)fluoranthene	0.18 J {0.55}	0.21 J {ND(4.5)}	1	ND(0.37)	ND(0.44)	0.09 J {0.27 J}	0.076 J	0.19 J
bis(2-Ethylhexyl)phthalate	0.036 J {ND(0.40)}	ND(0.42) {1.4 J}	0.075 J	ND(0.37)	ND(0.44)	ND(0.4) {0.029 J}	0.05 J	ND(0.43)
Butylbenzylphthalate	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	0.073 J	ND(0.43)
Chrysene	0.24 J {0.43}	0.31 J {0.65 J}	1.5	ND(0.37)	ND(0.44)	0.14 J {0.30 J}	0.13 J	0.33 J
Di-n-Butylphthalate	ND(0.34) {ND(0.40)}	0.4 J {ND(4.5)}	ND(0.49)	ND(0.37)	0.064 J	0.046 J {ND(0.42)}	0.068 J	0.054 J
Dibenzo(a,h)anthracene	0.045 J {ND(0.40)}	0.078 J {ND(4.5)}	0.24 J	ND(0.37)	ND(0.44)	0.024 J {0.040 J}	ND(0.42)	0.061 J
Dibenzofuran	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	0.12 J	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	0.11 J
Diethylphthalate	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
Fluoranthene	0.58 {0.77}	0.75 J {1.6 J}	4.3	ND(0.37)	ND(0.44)	0.19 J {0.48}	0.3 J	0.68 J
Fluorene	ND(0.34) {ND(0.40)}	0.031 J {ND(4.5)}	0.28 J	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	0.042 J	0.89
Hexachlorobenzene	ND(0.34) {ND(0.40)}	1.7 J {3.5 J}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
Indeno(1,2,3-cd)pyrene	0.14 J {0.089 J}	0.21 J {ND(4.5)}	0.69	ND(0.37)	ND(0.44)	0.075 J {0.15 J}	0.067 J	0.18 J
Isophorone	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
N-Nitrosodiphenylamine	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	0.052 J	ND(0.43)
Naphthalene	ND(0.34) {ND(0.40)}	0.75 J {ND(4.5)}	5.6	ND(0.37)	ND(0.44)	0.023 J {ND(0.42)}	ND(0.42)	0.87
Pentachlorobenzene	ND(0.34) {ND(0.40)}	69 J {86 J}	ND(0.49)	ND(0.37)	ND(0.44)	ND(0.4) {ND(0.42)}	ND(0.42)	ND(0.43)
Phenanthrene	0.28 J {0.33 J}	0.25 J {0.69 J}	2.2	ND(0.37)	ND(0.44)	0.13 J {0.27 J}	0.12 J	2.4
Phenol	ND(0.34) {ND(0.40)}	ND(0.42) {ND(4.5)}	0.075 J	ND(0.37)	ND(0.44)	ND(0.4) {0.074 J}	ND(0.42)	ND(0.43)
Pyrene	0.4 {0.58}	1.4 J {1.3 J}	3.3	ND(0.37)	ND(0.44)	0.25 J {0.52}	0.26 J	0.84

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T021-SD0211 0-0.5 9/10/98	T022-SD0221 1-1.5 9/28/98	T023-SD0232 0.5-1 9/10/98	T024-SD0243 0.5-1 9/28/98	T025-SD0251 1.5-2 9/9/98	T026-SD0262 0-0.5 9/28/98	T027-SD0271 1.5-2 9/9/98	T028-SD0281 0-0.5 9/23/98
<b>Organochlorine Pesticides</b>								
4,4'-DDT	ND(0.41)	ND(43)	ND(1)	ND(0.0038)	ND(0.0045)	ND(0.41) {ND(0.043)}	ND(0.022)	ND(0.22)
Beta-BHC	ND(0.2)	ND(22)	ND(0.51)	ND(0.0019)	0.0024	ND(0.2) {ND(0.043)}	ND(0.011)	ND(0.11)
Dieldrin	R	ND(43)	R	ND(0.0038)	ND(0.0045)	0.44 J {ND(0.043)}	ND(0.022)	ND(0.22)
Endosulfan Sulfate	ND(0.41)	ND(43)	ND(1)	ND(0.0038)	ND(0.0045)	ND(0.41) {ND(0.043)}	ND(0.022)	ND(0.22)
Gamma-BHC (Lindane)	ND(0.2)	ND(22)	ND(0.51)	ND(0.0019)	ND(0.0023)	ND(0.2) {ND(0.043)}	ND(0.011)	ND(0.11)
Heptachlor Epoxide	ND(0.2)	ND(22)	ND(0.51)	ND(0.0019)	ND(0.0023)	ND(0.2) {ND(0.043)}	ND(0.011)	ND(0.11)
Kepone	R	R	R	R	R	R {ND(0.84)}	R	R
<b>Dioxins/ Furans</b>								
WHO TEF	4.21E-05	1.69E-04	5.59E-04	1.20E-10	1.77E-06	2.84E-05	9.73E-07	3.52E-05
<b>Inorganics</b>								
Antimony	ND(1.1) {0.280 B}	ND(0.78) {0.470 B}	ND(1.2)	ND(0.61)	ND(1.2)	ND(0.68) {0.330 B}	ND(1)	1.6
Arsenic	R {2.40}	3 {4.60}	4.3 J	3.5	0.78	1.6 {2.30}	1.4	3 J
Barium	8 {6.60 B}	16.3 {21.4 B}	11.3	29.9	8.4	16.6 {22.1 B}	7.6	27.3
Beryllium	0.15 {0.140 B}	0.09 {0.200 B}	0.13	0.02	0.08	0.1 {0.150 B}	0.11	0.21
Cadmium	ND(0.1) {ND(0.610)}	ND(0.04) {0.250 B}	ND(0.11)	ND(0.03)	ND(0.09)	ND(0.03) {0.110 B}	ND(0.07)	ND(0.04)
Chromium	7 J {5.60}	12.6 {32.3}	13.2 J	13.2	8.3	7.8 {11.1}	9	21.9
Cobalt	5 J {4.80 B}	7.2 {8.30}	3.6 J	14.2	10.4	4.9 {6.20 B}	4.2	7.2
Copper	9.3 {9.10}	13.4 {16.9}	11.1	44.1	20.1	9 {7.00}	9.8	25
Lead	5.5 {5.50}	17.8 {116 J}	338	10.7	4.3	22.1 {21.4}	3.3	177 J
Mercury	ND(0.02) {ND(0.120)}	0.04 {0.0480 B}	0.04	ND(0.02)	ND(0.02)	ND(0.02) {0.0200 B}	ND(0.02)	0.04 J
Nickel	10.6 {7.90}	11.6 {13.8}	7.5	24.9	20.1	8.1 {9.30}	10.6	12.3
Selenium	ND(0.44) {ND(0.610)}	ND(0.59) {ND(0.680)}	ND(0.45)	ND(0.46)	ND(0.46)	ND(0.51) {ND(0.630)}	ND(0.39)	ND(0.51)
Silver	ND(0.36) {ND(1.20)}	ND(0.15) {ND(1.40)}	ND(0.37)	ND(0.12)	ND(0.28)	ND(0.13) {ND(1.30)}	ND(0.24)	ND(0.16)
Thallium	ND(0.75) {ND(1.20)}	ND(0.66) {2.10}	ND(0.77)	0.96	ND(0.79)	ND(0.58) {1.90}	ND(0.67)	ND(0.68)
Tin	0.75 {ND(12.2)}	1.7 J {ND(13.6)}	119	0.76 J	0.91 J	10.4 J {2.70 B}	ND(0.54)	3.1
Vanadium	5.1 J {3.90 B}	7.4 {7.30}	4.6 J	12.1	6.9	5.4 {5.20 B}	4.6	9.6
Zinc	50.9 {31.9}	56.5 {85.3}	51.1	72.1	51.3	40 {44.3}	32.5	74 J
Cyanide	ND(0.66) {ND(3.10)}	ND(0.64) {ND(3.40)}	ND(0.81)	ND(0.58)	ND(0.76)	ND(0.6) {ND(3.20)}	ND(0.69)	ND(0.65)
Sulfide	7.2 J {38.9 B}	357 {326}	731 J	ND(5.5)	6.5 J	ND(5.9) {92.9}	ND(6.2)	ND(6.4)

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T029-SD0292 0.5-1 9/9/98	T030-SD0303 0.5-1 9/23/98	T031-SD0312 1.5-2 9/8/98	T032-SD0322 1-1.5 9/23/98	T033-SD0332 0.5-1 9/4/98	T034-SD0341 1.5-2 9/22/98	T037-SD0373 1-1.5 9/4/98	T042-SD0423 0-0.5 9/22/98
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	0.045 J	ND(15)	0.19 J {ND(2.4)}	ND(0.87)	0.99	ND(0.38) {ND(0.42)}	3	ND(0.48) {ND(0.50)}
1,2,4-Trichlorobenzene	0.14 J	1.8 J	1 {0.18 J}	0.14 J	1.1	0.024 J {ND(0.42)}	12	0.049 J {ND(0.50)}
1,2-Dichlorobenzene	ND(0.37)	ND(15)	0.16 J {ND(2.4)}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
1,3-Dichlorobenzene	0.096 J	ND(15)	0.82 {ND(2.4)}	0.08 J	0.4 J	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
1,4-Dichlorobenzene	0.42	24	11 {1.9 J}	0.34 J	1.2	ND(0.38) {ND(0.42)}	0.41 J	0.073 J {ND(0.50)}
2,4-Dimethylphenol	ND(0.37)	1.2 J	0.7 J {1.3 J}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
2-Methylnaphthalene	ND(0.37)	4.3 J	6.7 {5.8}	0.12 J	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
2-Methylphenol	ND(0.37)	ND(15)	0.29 J {ND(2.4)}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
4-Methylphenol	ND(0.37)	1.7 J	1.1 {0.96 J}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	0.026 J {ND(0.50)}
7,12-Dimethylbenz(a)anthracene	ND(0.37)	ND(15)	ND(0.65) {ND(4.8)}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.83)}	0.34 J	ND(0.48) {ND(0.99)}
Acenaphthene	0.15 J	5.5 J	17 {15}	0.71 J	2.9	0.043 J {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Acenaphthylene	0.063 J	1.2 J	0.60 J {2.4}	0.14 J	0.38 J	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Acetophenone	ND(0.37)	ND(15)	0.31 J {ND(2.4)}	0.058 J	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	0.029 J {ND(0.50)}
Aniline	ND(0.92)	ND(38)	ND(1.6) {9.7}	ND(2.2)	ND(2.4)	ND(0.96) {ND(0.42)}	ND(2.7)	ND(1.2) {ND(0.50)}
Anthracene	0.11 J	38	12 J {8.3}	1.1	0.67 J	0.044 J {ND(0.42)}	ND(1.1)	0.03 J {0.038 J}
Benzo(a)anthracene	0.6	28	8.7 {7.6}	2.2	0.52 J	0.24 J {ND(0.42)}	0.3 J	0.21 J {0.18 J}
Benzo(a)pyrene	0.57	27	7.7 {7.4}	2.2	0.37 J	0.3 J {ND(0.42)}	0.38 J	0.23 J {0.22 J}
Benzo(b)fluoranthene	0.35 J	13 J	5.5 {6.6 J}	1	0.28 J	0.28 J {ND(0.42)}	0.26 J	0.22 J {0.20 J}
Benzo(g,h,i)perylene	0.44	17	3.6 {1.5 J}	1.3	0.18 J	0.16 J {ND(0.42)}	0.35 J	0.19 J {0.11 J}
Benzo(k)fluoranthene	0.42	15 J	4.6 {5.8}	1.3	0.26 J	0.27 J {ND(0.42)}	0.31 J	0.2 J {0.22 J}
bis(2-Ethylhexyl)phthalate	0.035 J	ND(15)	ND(0.65) {ND(2.4)}	ND(0.87)	ND(0.94)	ND(0.38) {0.025 J}	ND(1.1)	0.08 J {0.25 J}
Butylbenzylphthalate	ND(0.37)	ND(15)	ND(0.65) {ND(2.4)}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Chrysene	0.68	27	8.7 {8.5}	2.2	0.42 J	0.34 J {ND(0.42)}	0.32 J	0.27 J {0.24 J}
Di-n-Butylphthalate	0.061 J	ND(15)	1.4 J {1.8 J}	0.14 J	ND(0.94)	0.034 J {ND(0.42)}	ND(1.1)	0.1 J {ND(0.50)}
Dibenzo(a,h)anthracene	0.11 J	3.8 J	1.1 {0.51 J}	0.3 J	ND(0.94)	0.061 J {ND(0.42)}	ND(1.1)	0.049 J {ND(0.50)}
Dibenzofuran	ND(0.37)	1.2 J	1.3 {0.95 J}	0.052 J	0.25 J	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Diethylphthalate	ND(0.37)	ND(15)	ND(0.65) {ND(2.4)}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Fluoranthene	1.3 J	51 J	24 J {13}	3.7 J	1.9	0.67 J {0.056 J}	0.23 J	0.42 J {0.41 J}
Fluorene	0.088 J	6.2 J	9.3 {9.1}	0.73 J	0.51 J	0.031 J {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Hexachlorobenzene	0.044 J	ND(15)	ND(0.65) {ND(2.4)}	ND(0.87)	0.82 J	ND(0.38) {ND(0.42)}	0.3 J	ND(0.48) {ND(0.50)}
Indeno(1,2,3-cd)pyrene	0.36 J	13 J	3.5 {1.8 J}	1	0.22 J	0.15 J {ND(0.42)}	0.28 J	0.16 J {0.11 J}
Isophorone	ND(0.37)	ND(15)	ND(0.65) {ND(2.4)}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
N-Nitrosodiphenylamine	ND(0.37)	ND(15)	ND(0.65) {ND(2.4)}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Naphthalene	0.13 J	8.2 J	7.7 {3.1}	0.23 J	0.27 J	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Pentachlorobenzene	0.054 J	ND(15)	ND(0.65) {ND(2.4)}	ND(0.87)	8.3	ND(0.38) {ND(0.42)}	15	0.026 J {ND(0.50)}
Phenanthrene	1	42	50 J {33}	2.6	4	0.32 J {ND(0.42)}	0.17 J	0.25 J {0.23 J}
Phenol	ND(0.37)	1.2 J	0.78 {1.5 J}	ND(0.87)	ND(0.94)	ND(0.38) {ND(0.42)}	ND(1.1)	ND(0.48) {ND(0.50)}
Pyrene	1.5	76	30 J {17}	5.4	1.9	0.82 {0.10 J}	0.3 J	0.48 J {0.41 J}



TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T029-SD0292 0.5-1 9/9/98	T030-SD0303 0.5-1 9/23/98	T031-SD0312 1.5-2 9/8/98	T032-SD0322 1-1.5 9/23/98	T033-SD0332 0.5-1 9/4/98	T034-SD0341 1.5-2 9/22/98	T037-SD0373 1-1.5 9/4/98	T042-SD0423 0-0.5 9/22/98
<b>Organochlorine Pesticides</b>								
4,4'-DDT	ND(0.38)	2 J	ND(0.67)	R	ND(77)	ND(0.004)	ND(0.21)	R {ND(0.0051)}
Beta-BHC	ND(0.19)	ND(0.74)	ND(0.33)	ND(0.2)	ND(39)	ND(0.002)	ND(0.1)	ND(0.025) {ND(0.0051)}
Dieldrin	ND(0.38)	1.8 J	R	ND(0.4)	ND(77)	ND(0.004)	R	ND(0.049) {0.0085}
Endosulfan Sulfate	ND(0.38)	ND(1.5)	ND(0.67)	ND(0.4)	ND(77)	ND(0.004)	ND(0.21)	ND(0.049) {ND(0.0051)}
Gamma-BHC (Lindane)	ND(0.19)	ND(0.74)	ND(0.33)	ND(0.2)	ND(39)	ND(0.002)	ND(0.1)	ND(0.025) {ND(0.0051)}
Heptachlor Epoxide	ND(0.19)	0.87 J	0.73 J	ND(0.2)	ND(39)	ND(0.002)	ND(0.1)	ND(0.025) {ND(0.0051)}
Kepone	R	R	R	R	R	R	R	R {ND(0.099)}
<b>Dioxins/ Furans</b>								
WHO TEF	5.61E-05	5.26E-03	6.23E-03	8.11E-05	3.37E-04	2.30E-10	1.03E-04	1.83E-05
<b>Inorganics</b>								
Antimony	ND(0.94)	7.6	13 {8.80}	0.73	ND(0.73)	ND(0.39) {ND(1.30)}	ND(0.75)	0.56 {0.230 B}
Arsenic	1.1	12.9 J	18.5 {12.8}	2.6 J	16.1	0.96 J {1.30}	1.4	1.8 J {2.40}
Barium	5.2	394	694 {445}	15.6	148	4.7 {4.40 B}	8.6 J	16.5 {14.4 B}
Beryllium	0.08	0.13	0.25 {0.480 B}	0.12	0.21	0.08 {0.0970 B}	0.16	0.19 {0.160 B}
Cadmium	ND(0.07)	4.4 J	7.8 {2.70}	R	0.48	ND(0.04) {ND(0.630)}	0.33 J	ND(0.04) {0.130 B}
Chromium	6.3	58	94.2 {40.8}	10.3	11.4	4.4 {3.00}	9.7	8.2 {7.30}
Cobalt	5.3	10.4	14.8 {10.4 B}	8.3	8.9	4.4 {4.50 B}	5.9	5.1 {5.20 B}
Copper	12.1	1140	1640 {636}	80.3	66.1	4 {3.70}	73	22.6 {17.2}
Lead	5.8	1910 J	2890 {1200}	47.7 J	112	2.4 J {2.00}	67.5	27.4 J {28.6}
Mercury	ND(0.02)	2.2	3.2 {0.940}	0.04 J	0.15	ND(0.02) {ND(0.130)}	0.03 J	0.04 J {0.0530 B}
Nickel	16.1	58.8	107 {43.1}	10.3	20.4	6.7 {6.40}	14.3	9 {8.70}
Selenium	ND(0.36)	1 J	ND(0.67) {1.80}	ND(0.54)	ND(0.43)	ND(0.52) {ND(0.630)}	ND(0.44)	ND(0.52) {ND(0.750)}
Silver	ND(0.22)	3.5	5 {1.80 B}	ND(0.16)	ND(0.26)	ND(0.16) {ND(1.30)}	ND(0.27)	ND(0.16) {0.160 B}
Thallium	ND(0.61)	ND(0.93)	ND(1.1) {1.60 B}	ND(0.71)	ND(0.62)	ND(0.69) {0.810 B}	ND(0.64)	ND(0.69) {1.10 B}
Tin	1 J	168 J	228 {110}	8.6 J	459	1 {ND(12.6)}	7.7	3.4 {3.60 B}
Vanadium	5.7	13.3	17.4 {14.4 B}	7.9	5.7	3.8 {2.80 B}	6.4	7.3 {6.40 B}
Zinc	42.8	2220 J	3430 {1380}	92 J	94.4	24.1 {18.4}	81.3	61.2 {60.1}
Cyanide	ND(0.55)	7.1	3.3 {15.6}	1	0.66	ND(0.61) {ND(3.20)}	ND(0.69)	ND(0.74) {ND(3.80)}
Sulfide	ND(5.4)	18.2 J	11.5 J {199}	10.4 J	6.7	6.8 J {ND(63.2)}	ND(15.4)	53.9 J {254}

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPIX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T046-SD0462 0.5-1 9/21/98	T047-SD0471 0.5-1 9/3/98	T048-SD0481 0.5-1 9/21/98	T050-SD0503 0.5-1 9/21/98	T051-SD0513 1-1.5 9/2/98	T052-SD0521 1-1.5 9/17/98	T053-SD0533 0.5-1 8/28/98	T054-SD0543 1-1.5 9/17/98
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	52	2.9	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
1,2,4-Trichlorobenzene	270	6.3 J	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	0.071 J
1,2-Dichlorobenzene	ND(24)	0.056 J	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
1,3-Dichlorobenzene	ND(24)	0.13 J	ND(0.39)	0.057 J	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
1,4-Dichlorobenzene	27 J	0.91 J	0.16 J	0.27 J	ND(0.44)	ND(0.4)	ND(0.39)	0.088 J
2,4-Dimethylphenol	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
2-Methylnaphthalene	ND(24)	0.08 J	0.16 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
2-Methylphenol	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
4-Methylphenol	ND(24)	ND(0.38)	0.042 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
7,12-Dimethylbenz(a)anthracene	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Acenaphthene	ND(24)	0.063 J	0.99 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Acenaphthylene	ND(24)	0.083 J	0.77 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Acetophenone	ND(24)	0.053 J	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Aniline	ND(60)	ND(0.94)	ND(0.99)	ND(1.1)	R	ND(1)	ND(0.99)	ND(1.5)
Anthracene	3.5 J	0.4	1.3 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Benzo(a)anthracene	9.8 J	1.1	6.1	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Benzo(a)pyrene	7.9 J	1	5.8 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Benzo(b)fluoranthene	3.9 J	0.75	2.3 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Benzo(g,h,i)perylene	4.2 J	0.81	2.8 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Benzo(k)fluoranthene	4.7 J	0.87 J	3.3 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
bis(2-Ethylhexyl)phthalate	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Butylbenzylphthalate	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Chrysene	9.2 J	1	5.7 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Di-n-Butylphthalate	ND(24)	0.061 J	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	0.12 J
Dibenzo(a,h)anthracene	ND(24)	0.22 J	0.68 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Dibenzofuran	ND(24)	0.056 J	0.12 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Diethylphthalate	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Fluoranthene	18 J	2.8 J	9.4 J	0.05 J	ND(0.44)	ND(0.4)	0.048 J	ND(0.59)
Fluorene	ND(24)	0.15 J	1.5	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Hexachlorobenzene	ND(24)	0.42	ND(0.39)	ND(0.44)	R	ND(0.4)	R	ND(0.59)
Indeno(1,2,3-cd)pyrene	3.4 J	0.72 J	2.2 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Isophorone	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
N-Nitrosodiphenylamine	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Naphthalene	ND(24)	0.79 J	0.4 J	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Pentachlorobenzene	20 J	21 J	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Phenanthrene	6.8 J	2	3.5 J	0.042 J	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Phenol	ND(24)	ND(0.38)	ND(0.39)	ND(0.44)	ND(0.44)	ND(0.4)	ND(0.39)	ND(0.59)
Pyrene	27	2.2	16	0.09 J	0.064 J	ND(0.4)	0.044 J	ND(0.59)

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T046-SD0462 0.5-1 9/21/98	T047-SD0471 0.5-1 9/3/98	T048-SD0481 0.5-1 9/21/98	T050-SD0503 0.5-1 9/21/98	T051-SD0513 1-1.5 9/2/98	T052-SD0521 1-1.5 9/17/98	T053-SD0533 0.5-1 8/28/98	T054-SD0543 1-1.5 9/17/98
<b>Organochlorine Pesticides</b>								
4,4'-DDT	ND(0.25)	ND(12)	R	R	ND(0.045)	ND(0.0041)	ND(0.2)	ND(0.0061)
Beta-BHC	ND(0.12)	ND(5.8)	ND(0.02)	ND(0.023)	ND(0.023)	ND(0.002)	ND(0.1)	0.0053 J
Dieldrin	R	ND(12)	ND(0.04)	ND(0.045)	ND(0.045)	ND(0.0041)	ND(0.2)	ND(0.0061)
Endosulfan Sulfate	ND(0.25)	ND(12)	0.049 J	ND(0.045)	ND(0.045)	ND(0.0041)	ND(0.2)	ND(0.0061)
Gamma-BHC (Lindane)	ND(0.12)	ND(5.8)	ND(0.02)	ND(0.023)	ND(0.023)	ND(0.002)	ND(0.1)	0.0045
Heptachlor Epoxide	ND(0.12)	ND(5.8)	0.046 J	ND(0.023)	ND(0.023)	ND(0.002)	ND(0.1)	ND(0.003)
Kepon	R	R	R	R	R	0.0052	R	ND(0.003)
<b>Dioxins/ Furans</b>								
WHO TEF	9.61E-05	4.86E-05	4.74E-05	1.59E-06	9.00E-07	3.75E-07	7.18E-06	1.05E-07
<b>Inorganics</b>								
Antimony	3.6	ND(1.1)	1.4	ND(1.1)	ND(1.2)	ND(0.91)	0.59 J	ND(1.6)
Arsenic	5.9	1.7	2.1	1	ND(0.71)	1.8	0.65 J	2.4
Barium	24.2	7.4	10.6	28.2	6.5	8.2	4.2 J	10
Beryllium	0.16	0.16	0.12	0.17	0.1	0.11	0.08 J	0.16
Cadmium	3.4	0.21	0.86	0.48	ND(0.08)	R	ND(0.03)	0.29
Chromium	23.9	4.3	8.6	8.7	5.2	6.3 J	3.9	7.1 J
Cobalt	7.4	3.2	4.6	5.8	3.9	5.6	2.6 J	5.8
Copper	709	104	1800	11.5	5.2	9.7	66.9 J	8
Lead	1040	18.6	114	7.1	2.8 J	4.9	15.1	3.8
Mercury	0.26	ND(0.02)	0.07	ND(0.02)	ND(0.02)	ND(0.02)	0.02 J	ND(0.03)
Nickel	23.6	6.2	8.3 J	9.9 J	7.6	10.2	4.2	10.3
Selenium	ND(0.66)	ND(0.4)	ND(0.53)	ND(0.54)	0.99 J	0.52 J	0.55 J	0.87 J
Silver	0.84	ND(0.24)	ND(0.25)	ND(0.25)	ND(0.27)	ND(0.21)	ND(0.12)	ND(0.37)
Thallium	ND(0.88)	ND(0.69)	ND(0.7)	ND(0.71)	ND(0.76)	ND(0.59)	ND(0.5)	ND(1)
Tin	119	5.6	37.1	0.95	0.53	1.3 J	1.3	2.2
Vanadium	9	5	5	8.8	4.6	5.5	2.5 J	8.7
Zinc	848	33.5	136	49.8	34	34.1 J	17.5	43 J
Cyanide	1.1	ND(0.6)	ND(0.58)	ND(0.7)	ND(0.71)	ND(0.65)	R	ND(0.96)
Sulfide	17.1 J	ND(5.6)	56.6 J	10.4 J	ND(6.4)	ND(5.9)	ND(5.7)	79.1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T055-SD0552	T056-SD0562	T057-SD0571	T058-SD0581	T059-SD0593	T060-SD0603	T061-SD0612	T062-SD0622
	1-1.5 8/28/98	1-1.5 9/16/98	0-0.5 8/27/98	0-0.5 9/16/98	0-0.5 8/27/98	0-0.5 9/16/98	0.5-1 8/27/98	0.5-1 9/16/98
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	ND(0.37) {ND(0.37)}	ND(1)	0.48	16	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
1,2,4-Trichlorobenzene	ND(0.37) {ND(0.37)}	0.12 J	0.77	88 J	0.056 J	0.12 J	0.043 J {0.040 J}	0.22 J
1,2-Dichlorobenzene	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
1,3-Dichlorobenzene	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	0.048 J	0.093 J	0.088 J {ND(0.38)}	ND(0.36)
1,4-Dichlorobenzene	ND(0.37) {ND(0.37)}	0.5 J	ND(0.38)	ND(0.52)	0.23 J	0.51 J	0.49 {0.17 J}	0.094 J
2,4-Dimethylphenol	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
2-Methylnaphthalene	ND(0.37) {ND(0.37)}	0.52 J	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	0.043 J {ND(0.38)}	0.034 J
2-Methylphenol	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	0.039 J	ND(0.4) {ND(0.38)}	ND(0.36)
4-Methylphenol	ND(0.37) {ND(0.37)}	0.34 J	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {0.046 J}	ND(0.36)
7,12-Dimethylbenz(a)anthracene	ND(0.37) {ND(0.74)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.75)}	ND(0.36)
Acenaphthene	ND(0.37) {ND(0.37)}	1.5 J	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	0.047 J {0.043 J}	0.051 J
Acenaphthylene	ND(0.37) {ND(0.37)}	0.44 J	ND(0.38)	ND(0.52)	ND(0.47)	0.053 J	0.052 J {0.057 J}	0.077 J
Acetophenone	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	0.039 J	ND(0.4) {ND(0.38)}	ND(0.36)
Aniline	ND(0.92) {ND(0.37)}	ND(2.6)	ND(0.94)	ND(1.3)	ND(1.2)	ND(0.99)	ND(1) {ND(0.38)}	ND(0.91)
Anthracene	ND(0.37) {ND(0.37)}	0.54 J	ND(0.38)	ND(0.52)	0.05 J	0.052 J	0.052 J {0.037 J}	0.11 J
Benzo(a)anthracene	ND(0.37) {ND(0.37)}	3	0.13 J	ND(0.52)	0.24 J	0.36 J	0.22 J {0.22 J}	0.43
Benzo(a)pyrene	ND(0.37) {ND(0.37)}	2.5 J	0.11 J	0.048 J	0.27 J	0.34 J	0.2 J {0.21 J}	0.31 J
Benzo(b)fluoranthene	ND(0.37) {ND(0.37)}	1.3	0.078 J	ND(0.52)	0.27 J	0.22 J	0.11 J {0.12 J}	0.24 J
Benzo(g,h,i)perylene	ND(0.37) {ND(0.37)}	1.2	0.066 J	ND(0.52)	0.13 J	0.25 J	0.043 J {0.12 J}	0.24 J
Benzo(k)fluoranthene	ND(0.37) {ND(0.37 J)}	1.6	0.095 J	ND(0.52)	0.29 J	0.22 J	0.18 J {0.19 J}	0.26 J
bis(2-Ethylhexyl)phthalate	ND(0.37) {0.082 J}	ND(1)	ND(0.38)	ND(0.52)	0.083 J	0.037 J	ND(0.4) {0.094 J}	0.047 J
Butylbenzylphthalate	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
Chrysene	ND(0.37) {ND(0.37)}	3 J	0.14 J	ND(0.52)	0.32 J	0.41 J	0.24 J {0.26 J}	0.46 J
Di-n-Butylphthalate	0.072 J {0.064 J}	ND(1)	ND(0.38)	0.16 J	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	0.076 J
Dibenzo(a,h)anthracene	ND(0.37) {ND(0.37)}	0.44 J	ND(0.38)	ND(0.52)	ND(0.47)	0.066 J	ND(0.4) {ND(0.38)}	0.065 J
Dibenzofuran	ND(0.37) {ND(0.37)}	0.18 J	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
Diethylphthalate	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
Fluoranthene	ND(0.37) {ND(0.37)}	5.6 J	0.21 J	ND(0.52)	0.62 J	0.6 J	0.37 J {0.32 J}	0.97 J
Fluorene	ND(0.37) {ND(0.37)}	1.7	ND(0.38)	ND(0.52)	ND(0.47)	0.04 J	0.059 J {0.035 J}	0.077 J
Hexachlorobenzene	ND(0.37) {ND(0.37)}	ND(1)	0.091 J	2 J	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
Indeno(1,2,3-cd)pyrene	ND(0.37) {ND(0.37)}	1.1	0.054 J	ND(0.52)	0.12 J	0.2 J	0.044 J {0.11 J}	0.2 J
Isophorone	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
N-Nitrosodiphenylamine	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
Naphthalene	ND(0.37) {ND(0.37)}	1.2 J	ND(0.38)	ND(0.52)	ND(0.47)	0.12 J	0.061 J {ND(0.38)}	0.064 J
Pentachlorobenzene	ND(0.37) {ND(0.37)}	ND(1)	2.9	50	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	0.052 J
Phenanthrene	ND(0.37) {ND(0.37)}	0.74 J	0.06 J	0.078 J	0.29 J	0.32 J	0.087 J {0.099 J}	0.71 J
Phenol	ND(0.37) {ND(0.37)}	ND(1)	ND(0.38)	ND(0.52)	ND(0.47)	ND(0.39)	ND(0.4) {ND(0.38)}	ND(0.36)
Pyrene	ND(0.37) {ND(0.37)}	9.8	0.29 J	ND(0.52)	0.54 J	0.98	0.54 J {0.55}	0.87

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPIX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T055-SD0552 1-1.5 8/28/98	T056-SD0562 1-1.5 9/16/98	T057-SD0571 0-0.5 8/27/98	T058-SD0581 0-0.5 9/16/98	T059-SD0593 0-0.5 8/27/98	T060-SD0603 0-0.5 9/16/98	T061-SD0612 0.5-1 8/27/98	T062-SD0622 0.5-1 9/16/98
<b>Organochlorine Pesticides</b>								
4,4'-DDT	ND(0.038)	ND(0.54)	ND(1.9)	R	ND(0.24)	1.1	ND(1.2)	R
Beta-BHC	ND(0.019)	ND(0.27)	ND(0.96)	ND(53)	ND(0.12)	ND(0.2)	ND(0.61)	ND(0.037)
Dieldrin	ND(0.038)	0.78	ND(1.9)	ND(110)	ND(0.24)	ND(0.4)	ND(1.2)	ND(0.075)
Endosulfan Sulfate	ND(0.038)	ND(0.54)	ND(1.9)	ND(110)	ND(0.24)	ND(0.4)	ND(1.2)	ND(0.075)
Gamma-BHC (Lindane)	ND(0.019)	ND(0.27)	ND(0.96)	ND(53)	ND(0.12)	ND(0.2)	ND(0.61)	ND(0.037)
Heptachlor Epoxide	ND(0.019)	ND(0.27)	ND(0.96)	ND(53)	ND(0.12)	ND(0.2)	ND(0.61)	ND(0.037)
Kepone	R	R	R	420 J	R	R	R	0.39 J
<b>Dioxins/ Furans</b>								
WHO TEF	ND(0.000023)	6.54E-05	1.25E-05	9.60E-04	4.07E-05	1.25E-05	1.22E-05	1.06E-06
<b>Inorganics</b>								
Antimony	0.59 J {0.220 B}	2.5	ND(0.31)	ND(1.2)	ND(0.45)	ND(1.1)	0.5 J {0.230 B}	ND(0.9)
Arsenic	1.9 {3.30}	4.8	1.5 J	21.9	2.5 J	19.8	2.4 J {2.00}	0.77
Barium	5.9 J {5.10 B}	53.6	7.7	27.2	18.4	10.1	19.8 {17.3 B}	4.7
Beryllium	0.05 J {0.120 B}	0.23	0.18	0.26	0.05	0.1	0.13 {0.180 B}	0.06
Cadmium	ND(0.03) {ND(0.560)}	1.6 J	ND(0.03)	R	ND(0.05)	R	ND(0.04) {ND(0.570)}	0.17
Chromium	7 {4.90}	29 J	4.9 J	16.6 J	7.8 J	9.2 J	9 J {8.50}	3.7 J
Cobalt	6.1 {6.30}	9	3.2	17.5	5.5	3.3	6.2 {6.40}	2.5
Copper	6.4 J {5.10 J}	273	57.6	179	22.5	27.3	29.5 {19.4 J}	17.5
Lead	18 {2.80}	334	10.4 J	58.4	23.6 J	38.2	24.5 J {14.9}	17
Mercury	ND(0.02) {ND(0.110)}	0.88	ND(0.02)	ND(0.02)	0.03 J	ND(0.02)	ND(0.02) {0.0210 B}	ND(0.02)
Nickel	13.5 {9.10 J}	17.5	6.5 J	33.7	8.3 J	6.2	10 J {9.70}	4.9
Selenium	1.3 J {0.350 B}	1.1 J	0.78 J	1 J	1 J	0.96 J	0.98 J {ND(0.570)}	ND(0.44)
Silver	ND(0.12) {0.0530 J}	0.37	ND(0.13)	ND(0.28)	ND(0.18)	ND(0.25)	ND(0.15) {ND(1.10)}	ND(0.21)
Thallium	ND(0.5) {ND(1.10)}	ND(0.85)	ND(0.54)	ND(0.78)	ND(0.8)	ND(0.71)	ND(0.67) {0.870 B}	ND(0.59)
Tin	ND(0.61) {ND(11.1)}	37.6 J	4.4 J	3.7	2.8 J	1.6	2.2 J {ND(11.4)}	1.8
Vanadium	6.5 {4.30 B}	11	4.1	11	6.8	64.1	7 {7.60}	2.8
Zinc	41.8 {30.1}	367 J	38.5	110 J	55.4	38.3 J	60.7 {56.1}	46.9 J
Cyanide	R {ND(2.80)}	ND(0.84)	ND(0.6)	ND(0.81)	ND(0.75)	ND(0.65)	ND(0.63) {ND(2.80)}	ND(0.58)
Sulfide	ND(5.5) {78.1 B}	12.4	ND(5.6)	ND(7.6)	65.5 J	ND(5.8)	ND(5.9) {70.9 B}	ND(5.4)

TABLE 4-1

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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T063-SD0631 0-0.5 8/26/98
<b>Semivolatile Organics</b>	
1,2,4,5-Tetrachlorobenzene	ND(0.38)
1,2,4-Trichlorobenzene	ND(0.38)
1,2-Dichlorobenzene	ND(0.38)
1,3-Dichlorobenzene	ND(0.38)
1,4-Dichlorobenzene	ND(0.38)
2,4-Dimethylphenol	ND(0.38)
2-Methylnaphthalene	ND(0.38)
2-Methylphenol	ND(0.38)
4-Methylphenol	ND(0.38)
7,12-Dimethylbenz(a)anthracene	ND(0.38)
Acenaphthene	ND(0.38)
Acenaphthylene	ND(0.38)
Acetophenone	ND(0.38)
Aniline	ND(0.95)
Anthracene	ND(0.38)
Benzo(a)anthracene	0.075 J
Benzo(a)pyrene	0.077 J
Benzo(b)fluoranthene	0.066 J
Benzo(g,h,i)perylene	ND(0.38)
Benzo(k)fluoranthene	0.098 J
bis(2-Ethylhexyl)phthalate	ND(0.38)
Butylbenzylphthalate	ND(0.38)
Chrysene	0.1 J
Di-n-Butylphthalate	ND(0.38)
Dibenzo(a,h)anthracene	ND(0.38)
Dibenzofuran	ND(0.38)
Diethylphthalate	ND(0.38)
Fluoranthene	0.18 J
Fluorene	ND(0.38)
Hexachlorobenzene	ND(0.38)
Indeno(1,2,3-cd)pyrene	ND(0.38)
Isophorone	ND(0.38)
N-Nitrosodiphenylamine	ND(0.38)
Naphthalene	ND(0.38)
Pentachlorobenzene	ND(0.38)
Phenanthrene	0.11 J
Phenol	ND(0.38)
Pyrene	0.17 J

TABLE 4-1

Draft

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
HOUSATONIC RIVER UPPER REACH - FIRST 1/2 MILE

APPX+3 SEDIMENT DATA  
(ppm, dry-weight)

Appendix IX+3 Constituent	T063-SD0631 0-0.5 8/26/98
<b>Organochlorine Pesticides</b>	
4,4'-DDT	ND(0.39)
Beta-BHC	ND(0.2)
Dieldrin	ND(0.39)
Endosulfan Sulfate	ND(0.39)
Gamma-BHC (Lindane)	ND(0.2)
Heptachlor Epoxide	ND(0.2)
Kepone	R
<b>Dioxins/ Furans</b>	
WHO TEF	3.17E-06
<b>Inorganics</b>	
Antimony	ND(0.33)
Arsenic	1.3 J
Barium	6.7
Beryllium	0.06
Cadmium	ND(0.04)
Chromium	4.2 J
Cobalt	4
Copper	13
Lead	7.3 J
Mercury	ND(0.02)
Nickel	7.1 J
Selenium	0.95 J
Silver	ND(0.14)
Thallium	ND(0.59)
Tin	1.1 J
Vanadium	3.5
Zinc	37
Cyanide	ND(0.6)
Sulfide	ND(5.6)

TABLE 4-1

**GENERAL ELECTRIC COMPANY - PITTSFIELD, MA  
HOUSATONIC TIVER UPPER REACH - FIRST 1/2 MILE**

**APPIX+2 SEDIMENT DATA  
(ppm, dry weight)**

## Notes:

ND (0.36) - Constituent was not detected. The number in parenthesis is the associated detection limit.

NA - Constituent background data is not available.

J - Indicates an estimated value less than the method detection limit.

J\* - Indicates an estimated value between the Contact Laboratory Program required limit and the instrument detection limit.

B - Constituent was also detected in the associated method blank.

E - Concentration exceeded calibration range.

R - Indicates a rejected result.

N - Spiked sample recovery is not within control limits.

Constituents presented in this table indicate that at least one detection of the constituent has occurred at the site.

Total 2,3,7,8-TCDD toxic equivalents (TEQs) were calculated using the World Health Organization's Toxicity Equivalent Factors (TEFs) for all PCDD/PCDF congeners.

Shading indicates polygon removed as part of this Work Plan.



TABLE 4-2

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GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSSEDIMENT APPENDIX IX + 3 COMPARISON TO BACKGROUND  
(ppm, dry weight)

Appendix IX+3 Constituent	Post-Removal Average	Post-Removal		Background Average	Background	
		Min	Max		Min	Max
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	0.400	ND(0.36)	ND(0.85)	NA	NA	NA
1,2,4-Trichlorobenzene	0.195	ND(0.36)	0.071	0.130	ND(0.26)	ND(0.26)
1,2-Dichlorobenzene	0.195	ND(0.36)	ND(0.85)	NA	NA	NA
1,3-Dichlorobenzene	0.195	ND(0.36)	0.130	0.280	ND(0.56)	ND(0.56)
1,4-Dichlorobenzene	0.195	ND(0.36)	0.530	0.120	ND(0.24)	ND(0.24)
2,4-Dimethylphenol	0.400	ND(0.36)	ND(0.85)	NA	NA	NA
2-Methylnaphthalene	0.395	ND(0.23)	1.100	0.119	ND(0.14)	0.320
2-Methylphenol	0.195	ND(0.36)	ND(0.85)	NA	NA	NA
4-Methylphenol	0.195	ND(0.36)	ND(0.85)	0.405	ND(0.81)	ND(0.81)
7,12-Dimethylbenz(a)anthracene	0.400	ND(0.36)	ND(0.85)	NA	NA	NA
Acenaphthene	0.195	ND(0.36)	0.560	0.179	ND(0.15)	0.650
Acenaphthylene	0.195	ND(0.27)	0.670	0.153	ND(0.23)	0.170
Acetophenone	0.400	ND(0.37)	0.020	NA	NA	NA
Aniline	0.195	ND(0.34)	ND(2.1)	0.170	ND(0.34)	ND(0.34)
Anthracene	0.195	ND(0.23)	0.300	0.408	0.072	1.900
Benzo(a)anthracene	0.195	ND(0.26)	0.390	1.009	0.280	2.800
Benzo(a)pyrene	0.195	ND(0.30)	0.740	0.883	ND(0.35)	2.200
Benzo(b)fluoranthene	0.195	ND(0.37)	0.950	1.081	0.340	2.800
Benzo(g,h,i)perylene	0.195	ND(0.36)	0.220	0.154	ND(0.16)	0.350
Benzo(k)fluoranthene	0.195	ND(0.37)	0.950	0.879	0.320	2.700
bis(2-Ethylhexyl)phthalate	0.195	ND(0.37)	0.550	0.148	ND(0.10)	0.630
Butylbenzylphthalate	0.650	ND(0.36)	ND(0.85)	NA	NA	NA
Chrysene	0.195	ND(0.37)	0.500	0.947	0.310	2.700
Di-n-Butylphthalate	0.950	ND(0.36)	0.240	0.152	ND(0.12)	0.330
Dibenzo(a,h)anthracene	0.195	ND(0.24)	0.120	0.080	ND(0.10)	0.190
Dibenzofuran	0.400	ND(0.28)	0.140	0.143	ND(0.12)	0.54
Diethylphthalate	0.195	ND(0.37)	0.024	NA	NA	NA

TABLE 4-2

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GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSSEDIMENT APPENDIX IX + 3 COMPARISON TO BACKGROUND  
(ppm, dry weight)

Appendix IX+3 Constituent	Post-Removal Average	Post-Removal		Background Average	Background	
		Min	Max		Min	Max
Fluoranthene	0.195	ND(0.37)	1.100	2.751	0.720	7.400
Fluorene	0.195	ND(0.36)	0.300	0.207	ND(0.11)	1.100
Hexachlorobenzene	0.195	ND(0.36)	ND(0.85)	0.598	ND(0.71)	1.400
Indeno(1,2,3-cd)pyrene	0.195	ND(0.36)	0.180	0.182	ND(0.11)	0.480
Isophorone	0.195	ND(0.36)	0.120	NA	NA	NA
N-Nitrosodiphenylamine	0.195	ND(0.36)	ND(1.1)	0.550	ND(1.1)	ND(1.1)
Naphthalene	0.195	ND(0.26)	5.100	0.156	ND(0.14)	0.470
Pentachlorobenzene	0.400	ND(0.25)	ND(0.85)	0.125	ND(0.25)	ND(0.25)
Phenanthrene	0.195	ND(0.37)	1.400	1.629	0.310	7.400
Phenol	0.400	ND(0.21)	ND(0.85)	0.105	ND(0.21)	ND(0.21)
Pyrene	0.195	ND(0.37)	1.800	1.504	0.400	4.200
<b>Organochlorine Pesticides</b>						
4,4'-DDT	0.0019	ND(0.0038)	0.1	NA	NA	NA
Beta-BHC	0.0010	ND(0.0019)	0.095	NA	NA	NA
Dieldrin	0.0019	ND(0.0038)	ND(2.1)	NA	NA	NA
Endosulfan Sulfate	0.0019	ND(0.0038)	ND(2.1)	NA	NA	NA
Gamma-BHC (Lindane)	0.0010	ND(0.0019)	0.0045	NA	NA	NA
Heptachlor Epoxide	0.0010	ND(0.0019)	ND(1)	NA	NA	NA
Kepone	0.1110	ND(0.003)	0.032	NA	NA	NA
<b>Dioxins/Furans</b>						
WHO TEF	2.98E-05	7.20E-10	3.70E-04	NA	NA	NA
<b>Inorganics</b>						
Antimony	0.161	ND(0.55)	2	1.430	ND(2.1)N	3.400
Arsenic	0.551	ND(5)	5	2.960	ND(4.0)	4.400
Barium	3.842	4.2	29.9	34.210	11.700	74.400
Beryllium	0.024	ND(0.01)	0.2	0.280	0.100	0.500
Cadmium	0.055	ND(0.03)	0.59	0.640	ND(0.36)	1.400
Chromium	1.963	3.9	18	19.660	4.000	72.700
Cobalt	1.463	2.6	14.2	6.240	3.000	11.800
Copper	4.484	4.1	66.9	27.860	10.600	52.800
Lead	2.853	2.3	38.9	56.180	14.000	123.000
Mercury	0.004	ND(0.02)	0.05	0.190	ND(0.1)	0.800
Nickel	2.630	4.2	24.9	12.340	6.400	24.100
Selenium	0.149	ND(0.21)	3.5	0.600	ND(0.37)	1.100
Silver	0.042	ND(0.12)	0.18	0.250	ND(0.5)	ND(0.5)
Thallium	0.123	ND(0.5)	0.96	NA	NA	NA
Tin	0.644	ND(0.57)	14	14.000	ND(2.0)	111.000

TABLE 4-2

Draft

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSSEDIMENT APPENDIX IX + 3 COMPARISON TO BACKGROUND  
(ppm, dry weight)

Appendix IX+3 Constituent	Post-Removal Average	Post-Removal		Background Average	Background	
		Min	Max		Min	Max
Vanadium	1.640	2.5	12.1	12.680	4.000	27.500
Zinc	10.851	17.5	72.1	77.090	37.800	152.000
Cyanide	0.093	ND(0.57)	ND(3.0)	2.020	ND(0.1)	4.900
Sulfide	6.519	ND(4.7)	180	529.290	ND(254)	1210.000

## Notes:

Background data includes all available upstream data.

Backfill concentration for Semivolatile Organics, Furans, Dioxins, and Inorganics are based on the analytical results of samples collected as part of the confirmatory backfill sampling program described in GE's letter to the Agencies dated November 14, 1997.

As backfill analyses for Organopesticides were not specified under the confirmatory backfill sampling program, the backfill concentration for these constituents (with the exception of Kepone) were calculated based on a subset of "clean" background samples collected as part of the offsite residential properties sampling program. Due to unusually high method detection limits for these analytes, backfill concentrations assume the analytes would be present at the minimum detection limit.

Maximum, minimum, and average concentrations are calculated on a post-removal basis.

One-half the detection limit is used in calculating the post-removal average.

The maximum concentration represents either the maximum detected concentration, or in case where analytes not detected, one-half the maximum detection limit.

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX-3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T001-SL0001 0-0.5 8/5/98	T002-SL0412 1-1.5 9/3/98	T003-SL0005 1-1.5 8/5/98	T004-SL0408 0-0.5 9/3/98	T005-SL0009 1-1.5 8/5/98	T006-SL0404 2-2.5 9/3/98	T007-SL0028 1-1.5 8/6/98	T008-SL0402 1-1.5 9/2/98	T009-SL0042 0-0.5 8/6/98	T010-SL0399 1-1.5 9/2/98	T011-SL0033 0-0.5 8/6/98	T012-SL0396 0-0.5 9/2/98
<b>Semivolatile Organics</b>												
1,2,4,5-Tetrachlorobenzene	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	0.06 J [0.020 J]	ND(1.5)	0.035 J	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
1,2,4-Trichlorobenzene	ND(0.44)	0.067 J	0.13 J [0.042 J]	0.68 [0.10 J]	ND(1.5)	0.16 J	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	0.32 J
1,2-Dichlorobenzene	ND(0.44)	ND(0.35)	0.064 J [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
1,3-Dichlorobenzene	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	0.045 J
1,4-Dichlorobenzene	ND(0.44)	ND(0.35)	0.064 J [ND(0.36)]	0.2 J [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	0.6
2,4-Dimethylphenol	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
2-Chloronaphthalene	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
2-Methylnaphthalene	ND(0.44)	0.14 J	0.18 J [0.085 J]	ND(0.35) [ND(0.35)]	0.67 J	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	0.041 J
2-Methylphenol	ND(0.44)	ND(0.35)	0.083 J [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
4-Methylphenol	0.048 J	ND(0.35)	0.079 J [ND(0.36)]	ND(0.35) [ND(0.35)]	0.19 J	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Acenaphthene	ND(0.44)	0.051 J	0.069 J [0.061 J]	0.045 J [0.034 J]	0.61 J	ND(0.35)	0.047 J	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Acenaphthylene	ND(0.44)	0.051 J	0.069 J [0.072 J]	0.066 J [0.15 J]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	0.044 J	ND(0.35)	0.055 J
Acetophenone	ND(0.44)	0.16 J	0.16 J [ND(0.36)]	0.076 J [ND(0.35)]	0.24 J	ND(0.35)	ND(0.42)	ND(0.34)	0.056 J	ND(0.35)	ND(0.35)	0.086 J
Aniline	R	ND(0.88)	R [ND(0.36)]	ND(0.89) [ND(0.35)]	ND(3.7)	ND(0.88)	ND(1)	ND(0.86)	ND(0.87)	ND(0.87)	R	R
Anthracene	0.061 J	0.2 J	0.15 J [0.18 J]	0.13 J [0.10 J]	3.6	0.072 J	0.063 J	0.035 J	ND(0.35)	0.11 J	ND(0.35)	0.07 J
Benzo(a)anthracene	0.21 J	0.7	0.6 [0.50]	0.38[0.33 J]	6.2 J	0.35 J	0.3 J	0.2 J	0.16 J	0.53	0.034 J	0.43
Benzo(a)pyrene	0.21 J	0.72	0.57 [0.57]	0.61J [0.41]	5.1 J	0.39	0.3 J	0.22 J	0.17 J	0.58	0.039 J	0.44
Benzo(b)fluoranthene	0.2 J	0.64	0.62 [0.74]	0.52 [0.46]	4.2 J	0.32 J	0.28 J	0.18 J	0.16 J	0.47	0.044 J	0.47
Benzo(g,h,i)perylene	0.17 J	0.52	0.43 [0.16 J]	0.46 J [0.12 J]	2.7 J	0.36	0.23 J	0.16 J	0.13 J	0.44	0.036 J	0.16 J
Benzo(k)fluoranthene	0.19 J	0.59	0.52 [0.47 J]	0.55 J [0.64]	4.5 J	0.31 J	0.27 J	0.21 J	0.15 J	0.54	0.04 J	0.42
Benzyl Alcohol	0.064 J	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	0.42
bis(2-Ethylhexyl)phthalate	0.051 J	ND(0.35)	ND(0.39) [0.045 J]	ND(0.35) [0.065 J]	ND(1.5)	0.041 J	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Butylbenzylphthalate	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Chrysene	0.24 J	0.83	0.74 J [0.61]	0.73 [0.52]	5.8	0.42	0.34 J	0.24 J	0.2 J	0.63	0.055 J	0.56
Di-n-Butylphthalate	ND(0.44)	0.075 J	ND(0.39) [0.033 J]	0.16 J [0.051 J]	ND(1.5)	0.08 J	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Dibenzo(a,h)anthracene	0.066 J	0.16 J	0.12 J [0.065 J]	0.15 J [0.046 J]	0.98 J	0.093 J	0.056 J	0.056 J	0.032 J	0.15 J	ND(0.35)	0.11 J
Dibenzofuran	ND(0.44)	0.23 J	0.13 J [0.055 J]	0.053 J [ND(0.35)]	1.1 J	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	0.039 J
Fluoranthene	0.47	1.9 J	1.2 [1.3]	1.6J [0.82]	14	0.92 J	0.73 J	0.43	0.36 J	1.4	0.088 J	0.97
Fluorene	ND(0.44)	0.098 J	0.074 J [0.076 J]	0.061 J [0.040 J]	0.85 J	0.041 J	ND(0.42)	ND(0.34)	ND(0.35)	0.078 J	ND(0.35)	0.043 J
Hexachlorobenzene	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Hexachlorobutadiene	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Indeno(1,2,3-cd)pyrene	0.17 J	0.46 J	0.41 J [0.20 J]	0.4J [0.14 J]	3 J	0.27 J	0.21 J	0.17 J	0.12 J	0.4	0.034 J	0.29 J
Isophorone	ND(0.44)	1 J	0.5 J [ND(0.36)]	0.53 J [ND(0.35)]	0.54 J	0.14 J	ND(0.42)	0.22 J	0.14 J	ND(0.35)	0.095 J	0.063 J
N-Nitrosodiphenylamine	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Naphthalene	0.048 J	0.54	0.32 J [ND(0.36)]	0.2 J [ND(0.35)]	1.2 J	0.06 J	0.12 J	ND(0.34)	ND(0.35)	0.036 J	ND(0.35)	0.14 J
Nitrobenzene	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
o-Toluidine	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.72)]	ND(0.35) [ND(0.71)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.37)
Pentachlorobenzene	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	ND(0.35) [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	0.1 J	ND(0.35)	ND(0.37)
Phenanthrene	0.29 J	1.5	0.99 [0.78]	0.99 [0.52]	14	0.59	0.42	0.24 J	0.23 J	0.92	0.057 J	0.64
Phenol	ND(0.44)	ND(0.35)	ND(0.39) [ND(0.36)]	0.13 J [ND(0.35)]	ND(1.5)	ND(0.35)	ND(0.42)	ND(0.34)	ND(0.35)	ND(0.35)	ND(0.35)	0.19 J
Pyrene	0.42 J	1.8	1.1 [0.74]	1.2 [0.77]	14	0.85	0.65	0.45	0.35	1.3	0.084 J	0.96
<b>Organochlorine Pesticides</b>												
4,4'-DDE	ND(0.023)	R	ND(0.4)	ND(1.1) [0.41]	ND(0.076)	ND(0.11)	ND(0.086)	ND(0.035)	ND(0.18)	ND(0.36)	ND(0.036)	ND(3.8)
4,4'-DDT	R	R	1.6	ND(1.1) [0.29]	R	ND(0.11)	ND(0.086)	ND(0.035)	ND(0.18)	R	R	ND(3.8)
Endosulfan II	ND(0.023)	ND(0.036)	R	ND(1.1) [1.1]	ND(0.076)	ND(0.11)	ND(0.086)	ND(0.035)	ND(0.18)	ND(0.36)	ND(0.036)	ND(3.8)
Endrin Aldehyde	ND(0.023)	ND(0.036)	ND(0.4)	ND(1.1) [0.89]	ND(0.076)	ND(0.11)	ND(0.086)	ND(0.035)	ND(0.18)	ND(0.36)	ND(0.036)	ND(3.8)
Dieldrin	ND(0.023)	0.042	R	ND(1.1) [ND(0.18)]	ND(0.076)	ND(0.11)	ND(0.086)	ND(0.035)	R	ND(0.36)	ND(0.036)	ND(3.8)
Kepone	R	R	R	R	R	R	R	R	R	R	R	R
<b>Dioxins</b>												
WHO TEF	6.90E-06	3.00E-05	6.40E-05	2.70E-04	3.00E-05	2.00E-05	1.70E-05	9.00E-06	1.20E-05	6.10E-05	2.20E-05	2.10E-04
<b>Inorganics</b>												
Antimony	R	3.7	3.9 J [8.90]	1.4 [1.40 J]	15.4	ND(0.99)	ND(0.93)	ND(0.83)	R	ND(0.84)	R	ND(0.88)
Arsenic	2.9 J	7.2	7.2 J [9.10]	4.7 [6.10]	12.4 J	2.7	3.4 J	2.6	2.5	4.2	6.1 J	5.5
Barium	26.5 J	46.1	84.7 [110]	49 [49.7]	133	33.8	29.6	30.4	24.9 J	43.8	24.2 J	50.1
Beryllium	0.17	0.19	0.28 J [0.440 B]	0.17 [0.260 B]	0.27	0.18	0.16	0.15	0.17 J	0.28	0.1 J	0.21
Cadmium	0.11 J	1	0.94 J [0.260 B]	1.6 J [0.810]	4.8 J	0.42	0.13	0.41	0.19 J	0.62	0.13 J	0.78
Chromium	10.2	101	37.6 [52.5]	36.9 [50.8]	85.2	15.2	13.6	11.7	10.5	21	6	21.2

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T001-SL0001 0-0.5 8/5/98	T002-SL0412 1-1.5 9/3/98	T003-SL0005 1-1.5 8/5/98	T004-SL0408 0-0.5 9/3/98	T005-SL0009 1-1.5 8/5/98	T006-SL0404 2-2.5 9/3/98	T007-SL0028 1-1.5 8/6/98	T008-SL0402 1-1.5 9/2/98	T009-SL0042 0-0.5 8/6/98	T010-SL0399 1-1.5 9/2/98	T011-SL0033 0-0.5 8/6/98	T012-SL0396 0-0.5 9/2/98
Cobalt	6.9	9.4	10.9 J {11.9}	7.1 {9.10}	11.4	6.9	6.3 J	6.5	6.3 J	7.7	9.1 J	8.5
Copper	11.9	363	2550 J {876}	104 {106}	30300 J	21.9	22.0 J	16.1	14.3	35.8	20.4 J	39.8
Lead	17.6 J	163	570 J {602}	125 {129}	1650	26	44.2 J	16.2	23.8	50.9	10.9 J	60.3 J
Mercury	0.060 J	0.44	1.9 {1.90}	0.57 {0.470 J}	1.6	0.11	0.15 J	0.52	0.080 J	0.38	0.2 J	0.48 J
Nickel	11.6 J	60.3	35.2 J {44.3}	28.8 {68.1}	54.8 J	13.1	10.2 J	12.4	17.2 J	17.4	12.8 J	19.2
Selenium	ND(0.36)	0.52 J	ND(0.32) {1.30}	0.49 J {1.40}	ND(0.34)	ND(0.38)	ND(0.35)	ND(0.31)	ND(0.38)	ND(0.32)	ND(0.28)	1.5 J
Silver	ND(0.22)	ND(0.23)	0.39 J {0.210 B}	ND(0.17) {0.190 B}	2.6 J	0.61	ND(0.21)	ND(0.19)	ND(0.23)	0.46	ND(0.17)	0.25
Thallium	ND(0.62)	ND(0.66)	ND(0.55) {1.30}	ND(0.48) {0.530 B}	ND(0.58)	ND(0.64)	ND(0.6)	ND(0.54)	ND(0.65)	ND(0.55)	ND(0.48)	ND(0.57)
Tin	ND(0.5)	52.6	39.1J {50.9}	14 {6.00 B}	1630 J	0.53	ND(0.48)	ND(0.43)	ND(0.52)	1.6	ND(0.38)	2.6
Vanadium	6.7	31.9	20.8 {31.6}	25.2 {23.7}	62.8 J	14.3	7.0 J	10.6 J	7.1 J	22.4 J	9.8 J	31.2
Zinc	68.3 J	138	1000 J {263}	127 {121}	3180 J	65.7	60.9 J	60.8 J	88.4 J	90.5 J	50.1 J	128
Cyanide	ND(0.64)	0.98	ND(0.58) {ND(2.70)}	ND(0.59) {ND(2.70)}	ND(0.55)	ND(0.56)	ND(0.63)	ND(0.54)	ND(0.53)	ND(0.56)	ND(0.53)	ND(0.61)
Sulfide	ND(6.6)	5.2	ND(5.8) {ND(218)}	5.3 {ND(214)}	ND(5.5)	ND(5.2)	ND(6.3)	ND(5)	ND(5.2)	ND(5.2)	ND(5.3)	ND(5.5)

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T013-SL0044 2-2.5 8/6/98	T014-SL0394 2-2.5 9/1/98	T015-SL0034 0-0.5 8/6/98	T016-SL0380 2-2.5 9/1/98	T017-SL0010 1-1.5 8/7/98	T018-SL0376 0-0.5 9/1/98	T019-SL0021 1-1.5 8/7/98	T020-SL0343 2-2.5 8/31/98	T021-SL0014 1-1.5 8/7/98	T022-SL0342 0-0.5 8/31/98	T023-SL0016 0-0.5 8/7/98
<b>Semivolatile Organics</b>											
1,2,4,5-Tetrachlorobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {0.021 J}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
1,2,4-Trichlorobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	0.26 J {0.076 J}	ND(0.47)	ND(0.4)	0.095 J	ND(0.35)	0.086 J {ND(0.35)}	ND(0.35)
1,2-Dichlorobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
1,3-Dichlorobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.084 J	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
1,4-Dichlorobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	0.2 J {ND(0.38)}	ND(0.47)	ND(0.4)	0.22 J	ND(0.35)	0.046 J {ND(0.35)}	ND(0.35)
2,4-Dimethylphenol	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
2-Chloronaphthalene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
2-Methylnaphthalene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
2-Methylphenol	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
4-Methylphenol	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.074 J	ND(0.35)	0.033 J {ND(0.35)}	0.047 J
Acenaphthene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.044 J	ND(0.35)	ND(0.34) {0.040 J}	ND(0.35)
Acenaphthylene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {0.10 J}	ND(0.47)	ND(0.4)	0.048 J	ND(0.35)	ND(0.34) {0.071 J}	ND(0.35)
Acetophenone	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.075 J	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
Aniline	R	R	R	R	R {ND(0.38)}	R	R	ND(1.2)	ND(0.87)	ND(0.86) {ND(0.35)}	R
Anthracene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	0.062 J {0.058 J}	0.072 J	ND(0.4)	0.064 J	ND(0.35)	0.066 J {0.11 J}	0.071 J
Benzo(a)anthracene	ND(0.37)	ND(0.38)	0.19 J	ND(0.34)	0.28 J {0.25 J}	0.3 J	ND(0.4)	0.22 J	ND(0.35)	0.35 {0.41}	0.55 J
Benzo(a)pyrene	ND(0.37)	ND(0.38)	0.19 J	ND(0.34)	0.29 J {0.31 J}	0.3 J	ND(0.4)	0.24 J	ND(0.35)	0.2 J {0.54}	0.64 J
Benzo(b)fluoranthene	ND(0.37)	ND(0.38)	0.18 J	ND(0.34)	0.29 J {0.30 J}	0.26 J	ND(0.4)	0.22 J	0.032 J	0.35 {0.53}	0.68 J
Benzo(g,h,i)perylene	ND(0.37)	ND(0.38)	0.15 J	ND(0.34)	0.21 J {0.14 J}	0.18 J	ND(0.4)	0.22 J	ND(0.35)	0.063 J {0.22 J}	0.47 J
Benzo(k)fluoranthene	ND(0.37)	ND(0.38)	0.2 J	ND(0.34)	0.28 J {0.24 J}	0.3 J	ND(0.4)	0.2 J	0.034 J	0.32 J {0.57}	0.6 J
Benzyl Alcohol	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	0.13 J {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
bis(2-Ethylhexyl)phthalate	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {0.047 J}	0.052 J	ND(0.4)	0.066 J	ND(0.35)	ND(0.34) {0.096 J}	0.042 J
Butylbenzylphthalate	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	0.089 J	ND(0.4)	0.045 J	ND(0.35)	0.032 J {0.038 J}	ND(0.35)
Chrysene	ND(0.37)	ND(0.38)	0.23 J	ND(0.34)	0.36 J {0.35 J}	0.36 J	ND(0.4)	0.26 J	0.039 J	0.4 {0.55}	0.71 J
Di-n-Butylphthalate	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.058 J	ND(0.35)	0.067 J {0.11 J}	ND(0.35)
Dibenzo(a,h)anthracene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	0.053 J {0.042 J}	0.085 J	ND(0.4)	0.093 J	ND(0.35)	0.1 J {0.064 J}	0.11 J
Dibenzofuran	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
Fluoranthene	ND(0.37)	ND(0.38)	0.46 J	ND(0.34)	0.67 J {0.53}	0.77	ND(0.4)	0.48	0.058 J	0.87 {0.79}	1.3 J
Fluorene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	0.043 J {ND(0.38)}	ND(0.47)	ND(0.4)	0.053 J	ND(0.35)	0.035 J {0.039 J}	ND(0.35)
Hexachlorobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {0.085 J}	ND(0.35)
Hexachlorobutadiene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
Indeno(1,2,3-cd)pyrene	ND(0.37)	ND(0.38)	0.15 J	ND(0.34)	0.2 J {0.15 J}	0.24 J	ND(0.4)	0.2 J	ND(0.35)	0.18 J {0.21 J}	0.47 J
Isophorone	ND(0.37)	0.49	ND(0.41)	0.39	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.044 J	0.078 J	0.15 J {ND(0.35)}	0.13 J
N-Nitrosodiphenylamine	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.07 J	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
Naphthalene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	0.1 J {ND(0.38)}	ND(0.47)	ND(0.4)	0.055 J	ND(0.35)	0.073 J {ND(0.35)}	0.042 J
Nitrobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.35)}	ND(0.35)
o-Toluidine	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.75)}	ND(0.47)	ND(0.4)	ND(0.47)	ND(0.35)	ND(0.34) {ND(0.69)}	ND(0.35)
Pentachlorobenzene	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	0.05 J	ND(0.4)	ND(0.47)	ND(0.35)	0.034 J {ND(0.35)}	ND(0.35)
Phenanthrene	ND(0.37)	ND(0.38)	0.24 J	ND(0.34)	0.49 J {0.36 J}	0.44 J	ND(0.4)	0.26 J	0.035 J	0.5 {0.50}	0.59 J
Phenol	ND(0.37)	ND(0.38)	ND(0.41)	ND(0.34)	ND(0.37) {ND(0.38)}	ND(0.47)	ND(0.4)	0.12 J	ND(0.35)	0.091 J {0.15 J}	ND(0.35)
Pyrene	ND(0.37)	ND(0.38)	0.4 J	ND(0.34)	0.71 J {0.49}	0.69	ND(0.4)	0.44 J	0.05 J	0.57 {0.68}	1.5 J
<b>Organochlorine Pesticides</b>											
4,4'-DDE	ND(0.0038)	ND(0.0078)	ND(0.042)	ND(0.017)	ND(8.2) {ND(0.19)}	ND(0.048)	ND(0.083)	ND(0.097)	ND(0.18)	ND(1.8) {ND(0.36)}	ND(0.18)
4,4'-DDT	ND(0.0038)	ND(0.0078)	R	ND(0.017)	ND(8.2) {ND(0.19)}	ND(0.048)	R	ND(0.097)	ND(0.18)	ND(1.8) {ND(0.36)}	R
Endosulfan II	ND(0.0038)	ND(0.0078)	ND(0.042)	ND(0.017)	ND(8.2) {2.0}	ND(0.048)	ND(0.083)	ND(0.097)	ND(0.18)	ND(1.8) {0.91}	ND(0.18)
Endrin Aldehyde	ND(0.0038)	ND(0.0078)	ND(0.042)	ND(0.017)	ND(8.2) {1.6}	ND(0.048)	ND(0.083)	ND(0.097)	ND(0.18)	ND(1.8) {ND(0.36)}	ND(0.18)
Dieldrin	ND(0.0038)	ND(0.0078)	ND(0.042)	ND(0.017)	12 J {ND(0.19)}	ND(0.048)	R	ND(0.097)	ND(0.18)	ND(1.8) {ND(0.36)}	R
Kepon	R	R	R	R	R	R	R	R	R	R {ND(6.9)}	R
<b>Dioxins</b>											
WHO TEF	2.70E-08	1.70E-06	5.60E-06	8.60E-06	1.60E-04	7.30E-06	1.50E-05	1.00E-05	3.90E-05	2.00E-04	7.70E-05
<b>Inorganics</b>											
Antimony	R	ND(1)	R	ND(0.9)	R ND(1.10) J	ND(0.97) J	R	R	R	R {0.800 B}	R
Arsenic	4.7 J	10.4	2.8 J	6.1	3.9 J {4.60}	3.1	4.8 J	R	5.3 J	R {3.30}	2.6 J
Barium	24.8 J	28.4	25.2 J	18.4	30.2 J {39.4 J}	41.8	26.3 J	29.9	23.1 J	31.2 {34.4}	26.2 J
Beryllium	0.12 J	0.22	0.15 J	0.11	0.18 J {0.320 B}	0.17	0.14 J	0.17	0.19 J	0.15 {0.270 B}	0.14 J
Cadmium	0.55 J	0.54	0.090 J	0.37	0.17 J {0.150 B}	0.42	ND(0.07)	0.33	ND(0.06)	0.41 {0.090 B}	0.15 J
Chromium	8.3	12.3	8.6	11.9	13.3 {18.2}	15.7	7.9	15.5 J	8.2	13.9 J {14.2}	9.6

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T013-SL0044 2-2.5 8/6/98	T014-SL0394 2-2.5 9/1/98	T015-SL0034 0-0.5 8/6/98	T016-SL0380 2-2.5 9/1/98	T017-SL0010 1-1.5 8/7/98	T018-SL0376 0-0.5 9/1/98	T019-SL0021 1-1.5 8/7/98	T020-SL0343 2-2.5 8/31/98	T021-SL0014 1-1.5 8/7/98	T022-SL0342 0-0.5 8/31/98	T023-SL0016 0-0.5 8/7/98
Cobalt	8.2 J	14.5	6.4 J	11.3	6.9 J {9.40}	8.4	6.3 J	8.4	7.3 J	6.6 {7.60}	6.0 J
Copper	11.5 J	43.7	10.1 J	30.8	20.7 J {23.7}	20	15.1 J	20.8	14.6 J	25.8 J {26.4}	13.1 J
Lead	29.3 J	22.0 J	13.7 J	16.7 J	30.7 J {38.6 J}	21.9 J	10.7 J	24.1 J	16.7 J	35.7J {38.9}	18.8 J
Mercury	ND(0.02)	ND(0.02)	0.060 J	0.020 J	0.20 J {0.150}	0.08 J	0.05 J	0.010 J	0.090 J	0.11J {0.120}	0.11 J
Nickel	11.6 J	24.2	8.5 J	21	10.8 J {16.5}	14.4	11.1 J	15.8	11.0 J	13.2 {14.2}	8.2 J
Selenium	ND(0.33)	2.4 J	ND(0.36)	1.6 J	ND(0.31) {0.240 B}	1.4 J	ND(0.4)	1.0 J	ND(0.33)	0.91J {0.630}	ND(0.31)
Silver	ND(0.2)	ND(0.23)	ND(0.22)	ND(0.21)	ND(0.19) {ND(1.10)}	ND(0.22)	ND(0.24)	R	ND(0.2)	R {0.380 B}	ND(0.19)
Thallium	ND(0.56)	ND(0.66)	ND(0.61)	ND(0.58)	ND(0.52) {ND(1.10)}	ND(0.63)	ND(0.68)	ND(0.8)	ND(0.57)	0.46 J {0.770 B}	ND(0.54)
Tin	ND(0.45)	0.65	ND(0.49)	0.82	ND(0.42) {ND(11.4)}	1.8	ND(0.55)	1.8	ND(0.46)	1.7 {ND(10.5)}	ND(0.43)
Vanadium	3.9 J	11.7	5.7 J	10.7	6.6 {12.6}	13.5	8.5 J	12.1	7.6 J	15.5 {16.4}	6.2 J
Zinc	146 J	59.6	50.5 J	54.3	58.7 J {72.8}	82.7	45.6 J	54.5	48.2 J	103 {112}	58.2 J
Cyanide	ND(0.56)	ND(0.62)	0.64	ND(0.55)	4.6 {ND(2.80)}	ND(0.72)	ND(0.59)	ND(0.77)	ND(0.52)	ND(0.57) {ND(2.60)}	ND(0.51)
Sulfide	ND(5.5)	ND(5.6)	ND(6.1)	ND(5)	ND(5.6) {ND(228)J}	ND(7.1)	ND(6)	ND(7.1)	ND(5.2)	ND(5.6) {148 B}	ND(5.2)

TABLE 4-3  
GENERAL ELECTRIC  
PITTSFIELD, MA

REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX-3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T024-SL0338 1-1.5 8/31/98	T025-SL0025 0-0.5 8/7/98	T026-SL0324 0-0.5 8/28/98	T027-SL0026 2-2.5 8/7/98	T028-SL0322 1-1.5 8/28/98	T029-SL0040 0-0.5 8/7/98	T030-SL0320 2-2.5 8/28/98	T031-SL0038 0-0.5 8/7/98	T032-SL0316 1-1.5 8/27/98	T033-SL0146 1-1.5 8/17/98	T034-SL0188 0-0.5 8/19/98
<b>Semivolatile Organics</b>											
1,2,4,5-Tetrachlorobenzene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	0.19 J	0.19 J	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
1,2,4-Trichlorobenzene	0.1 J	ND(0.34) {ND(0.35)}	ND(0.41)	0.095 J	0.23 J	2.9	1.9	0.079 J	0.2 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
1,2-Dichlorobenzene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	0.043 J	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
1,3-Dichlorobenzene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	0.18 J	ND(0.36)	ND(0.73)	0.057 J	ND(0.46)	0.055 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
1,4-Dichlorobenzene	0.047 J	ND(0.34) {ND(0.35)}	ND(0.41)	0.69 J	0.077 J	0.087 J	0.069 J	0.065 J	0.21 J	ND(0.35) {ND(0.36)}	0.092 J {ND(0.46)}
2,4-Dimethylphenol	0.048 J	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	0.049 J	0.36 J	0.74 J	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
2-Chloronaphthalene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	ND(0.36)	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
2-Methylnaphthalene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	0.064 J	0.036 J	0.17 J	0.14 J	ND(0.46)	0.077 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
2-Methylphenol	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	0.096 J	0.55 J	0.55	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
4-Methylphenol	0.06 J	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	0.12 J	0.62 J	0.59	ND(0.46)	0.058 J	0.044 J {ND(0.36)}	ND(0.46) {ND(0.46)}
Acenaphthene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	0.63 J	ND(0.36)	ND(0.73)	0.058 J	ND(0.46)	0.036 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Acenaphthylene	0.034 J	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	0.046 J	0.31 J	0.11 J	ND(0.46)	0.14 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Acetophenone	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	0.13 J	ND(0.73)	0.3 J	ND(0.46)	0.039 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Aniline	ND(0.91)	R {0.21 J}	ND(1)	R	1.6	6.4	0.69 J	ND(1.2)	ND(0.92)	ND(0.89) {ND(0.36)}	R {ND(0.46)}
Anthracene	0.093 J	ND(0.34) {ND(0.35)}	0.038 J	0.18 J	0.083 J	0.15 J	0.24 J	0.053 J	0.11 J	0.034 J {ND(0.36)}	0.06 J {0.052 J}
Benzo(a)anthracene	0.44	0.098 J {0.12 J}	0.21 J	0.43 J	0.4	1.1 J	0.96	0.31 J	0.55	0.16 J {0.10 J}	0.34 J {0.25 J}
Benzo(a)pyrene	0.3 J	0.12 J {0.15 J}	0.2 J	0.47 J	0.39	1.5 J	1	0.34 J	0.65 J	0.17 J {0.13 J}	0.38 J {0.31 J}
Benzo(b)fluoranthene	0.36 J	0.11 J {0.15 J}	0.17 J	0.39 J	0.37	1.3 J	1	0.32 J	0.68	0.18 J {0.10 J}	0.36 J {0.28 J}
Benzo(g,h,i)perylene	0.1 J	0.095 J {0.080 J}	0.14 J	0.26 J	0.3 J	1.1 J	0.29 J	0.25 J	0.22 J	0.13 J {0.069 J}	0.33 J {0.12 J}
Benzo(k)fluoranthene	0.39	0.12 J {0.17 J}	0.2 J	0.47 J	0.37	1.3 J	0.86	0.31 J	0.72	0.19 J {0.14 J}	0.34 J {0.41 J}
Benzyl Alcohol	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	0.08 J	ND(0.73)	ND(0.36)	ND(0.46)	0.21 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
bis(2-Ethylhexyl)phthalate	ND(0.36)	ND(0.34) {0.033 J}	ND(0.41)	0.2 J	0.05 J	0.097 J	ND(0.36)	ND(0.46)	0.04 J	ND(0.35) {0.038 J}	0.045 J {0.063 J}
Butylbenzylphthalate	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	ND(0.36)	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Chrysene	0.5	0.13 J {0.16 J}	0.23 J	0.54 J	0.49	1.3 J	1.2	0.38 J	0.83	0.21 J {0.14 J}	0.42 J {0.35 J}
Di-n-Butylphthalate	ND(0.36)	0.038 J {0.039 J}	ND(0.41)	ND(0.45)	0.13 J	ND(0.73)	3.6	ND(0.46)	0.039 J	ND(0.35) {0.040 J}	ND(0.46) {ND(0.46)}
Dibenzo(a,h)anthracene	0.09 J	ND(0.34) {ND(0.35)}	0.05 J	0.088 J	0.092 J	0.19 J	0.27 J	0.074 J	0.076 J	ND(0.35) {ND(0.36)}	0.065 J {ND(0.46)}
Dibenzofuran	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	0.058 J	ND(0.36)	0.12 J	0.16 J	ND(0.46)	0.05 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Fluoranthene	0.98	0.24 J {0.28 J}	0.51	1 J	0.88	1.4 J	1.9	0.73	1.4	0.28 J {0.20 J}	0.73 {0.50}
Fluorene	0.054 J	ND(0.34) {ND(0.35)}	ND(0.41)	0.35 J	0.044 J	ND(0.73)	0.085 J	ND(0.46)	0.07 J	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Hexachlorobenzene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	0.15 J	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Hexachlorobutadiene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	ND(0.36)	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Indeno(1,2,3-cd)pyrene	0.26 J	0.094 J {0.086 J}	0.15 J	0.25 J	0.24 J	1 J	0.72	0.25 J	0.21 J	0.13 J {0.068 J}	0.29 J {0.13 J}
Isophorone	0.064 J	0.1 J {ND(0.35)}	ND(0.41)	ND(0.45)	0.13 J	0.26 J	0.34 J	ND(0.46)	0.088 J	0.16 J {ND(0.36)}	ND(0.46) {ND(0.46)}
N-Nitrosodiphenylamine	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	ND(0.36)	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Naphthalene	0.069 J	ND(0.34) {ND(0.35)}	ND(0.41)	0.26 J	0.1 J	0.43 J	0.45	0.047 J	0.15 J	0.033 J {ND(0.36)}	0.09 J {ND(0.46)}
Nitrobenzene	ND(0.36)	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	0.12 J	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
o-Toluidine	ND(0.36)	ND(0.34) {ND(0.71)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	ND(0.36)	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.72)}	ND(0.46) {ND(0.92)}
Pentachlorobenzene	0.046 J	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	ND(0.36)	ND(0.73)	0.11 J	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Phenanthrene	0.66	0.088 J {0.10 J}	0.29 J	1	0.61	0.66 J	1.1	0.43 J	0.9	0.22 J {0.13 J}	0.44 J {0.29 J}
Phenol	0.096 J	ND(0.34) {ND(0.35)}	ND(0.41)	ND(0.45)	1.5	ND(0.73)	1.2	ND(0.46)	ND(0.37)	ND(0.35) {ND(0.36)}	ND(0.46) {ND(0.46)}
Pyrene	0.87	0.22 J {0.21 J}	0.52	1.3	0.87	1.8 J	1.6	0.77 J	1.1 J	0.34 J {0.22 J}	0.74 {0.48}
<b>Organochlorine Pesticides</b>											
4,4'-DDE	ND(1.9)	ND(0.071)	ND(0.085)	ND(0.46)	ND(1.8)	150 J	24	ND(2.4)	ND(1.1)	ND(1.8)	ND(0.095) {ND(0.012)}
4,4'-DDT	ND(1.9)	ND(0.071)	ND(0.085)	R	ND(1.8)	R	R	ND(2.4)	ND(1.1)	ND(1.8)	ND(0.095) {ND(0.012)}
Endosulfan II	ND(1.9)	ND(0.071)	ND(0.085)	ND(0.46)	ND(1.8)	ND(110)	ND(19)	ND(2.4)	ND(1.1)	ND(1.8)	ND(0.095) {0.054}
Endrin Aldehyde	ND(1.9)	ND(0.071)	ND(0.085)	ND(0.46)	ND(1.8)	ND(110)	ND(19)	ND(2.4)	ND(1.1)	ND(1.8)	ND(0.095) {0.035}
Dieldrin	ND(1.9)	R	ND(0.085)	ND(0.46)	ND(1.8)	R	ND(19)	ND(2.4)	ND(1.1)	ND(1.8)	ND(0.095) {ND(0.012)}
Kepon	R	R	R	R	R	R	R	R	R	R	R {ND(0.23)}
<b>Dioxins</b>											
WHO TEF	3.59E-04	3.30E-05	1.10E-05	9.40E-05	3.70E-04	8.30E-03	1.90E-02	2.90E-03	1.80E-04	4.40E-04	1.60E-05
<b>Inorganics</b>											
Antimony	R	R {ND(1.10) J}	0.61 J	R	0.81 J	5.9 J	69.3 J	R	0.97 J	0.92 {0.420 B}	0.77J {0.600 B}
Arsenic	R	3.6 J {5.20}	2.7	2.8 J	3.5	9.1 J	15.7	3.5 J	5.2 J	2.5 {2.90}	3.3 {3.70}
Barium	47.4	24.9 J {27.5 J}	39.9	22.8 J	45.5	125 J	496 J	40.3 J	49.6	27.3 J {30.1}	37.9 {38.3}
Beryllium	0.21	0.14 J {0.310 B}	0.17	0.16	0.23 J	0.31 J	0.090	0.2 J	0.31	0.18 J {0.270 B}	0.26 J {0.320 B}
Cadmium	0.49	0.18 J {0.150 B}	ND(0.03)	0.21	ND(0.03)	4.5 J	8.6 J	0.19 J	ND(0.04)	ND(0.04) {0.0260 B}	ND(0.12) {ND(0.700)}
Chromium	19.1 J	6.4 {9.50}	14.1	14.2	24.1	54.1	210	15.2	25.7 J	11.4 J {13.5}	13.8 {13.7}



TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T024-SL0338 1-1.5 8/31/98	T025-SL0025 0-0.5 8/7/98	T026-SL0324 0-0.5 8/28/98	T027-SL0026 2-2.5 8/7/98	T028-SL0322 1-1.5 8/28/98	T029-SL0040 0-0.5 8/7/98	T030-SL0320 2-2.5 8/28/98	T031-SL0038 0-0.5 8/7/98	T032-SL0316 1-1.5 8/27/98	T033-SL0146 1-1.5 8/17/98	T034-SL0188 0-0.5 8/19/98
Cobalt	8.6	7.8 J {9.80}	7.9	5.7 J	8.5	11.7 J	14.4	7.6 J	9	6.3 {7.50}	5.9 J {8.90}
Copper	29.7 J	14.8 J {18.4}	19.1 J	26 J	47.6 J	576 J	6700 J	27.1 J	40.2	17.7 {17.7}	16.5 {19.7}
Lead	38.5 J	7.8 J {10.6 J}	18.8	30.5 J	55.5	633 J	3190	41.1 J	77.9 J	20.8 J {22.5}	19.8 {22.3}
Mercury	0.13 J	0.02 J {0.0290 B}	0.08	0.16 J	0.46	2.7	0.84	0.17 J	0.65	0.07 {0.0770 B}	0.08 {0.0930 B}
Nickel	16.4	10.8 J {17.4}	12.5	10.4 J	16.3	39.7 J	68.4	11.2 J	16.1 J	10.7 J {11.9}	14.5 {14.6}
Selenium	1.2 J	ND(0.29) {ND(0.540)}	1.4 J	ND(0.42)	1.6 J	ND(0.38)	2.8 J	ND(0.47)	1.6 J	ND(0.34) {0.400 B}	ND(0.52) {1.10}
Silver	R	ND(0.18) {ND(1.10)}	ND(0.12)	1.1 J	0.96 J	2.7 J	9.6 J	0.31 J	0.34	ND(0.14) {0.210 B}	ND(0.2) {0.0840 B}
Thallium	ND(0.69)	ND(0.5) {0.790 B}	ND(0.54)	ND(0.72)	0.85 J	ND(0.66)	0.91 J	ND(0.8)	ND(0.67)	0.58 J {1.50}	R {0.780 B}
Tin	2.4	ND(0.4) {ND(10.7)}	2.1	0.63	2.9	48.8 J	396	ND(0.64)	3.6 J	1.5 {ND(11.0)}	2.7 {ND(14.0)}
Vanadium	17.4	7.2 J {12.8}	12	9 J	18.5	30.8 J	18.4	10.7 J	16	11.2 {11.3}	11.2 {12.4}
Zinc	89.7	49.6 J {77.2}	62.1	71.7 J	112	1210 J	2990	71.9 J	108	62.6 {68.8}	82.7 {73.9}
Cyanide	ND(0.6)	ND(0.51) {ND(2.70)}	R	ND(0.66)	R	1.5	R	ND(0.69)	ND(0.56)	ND(0.53) {ND(2.70)}	ND(0.69) {ND(3.50)}
Sulfide	ND(6.7)	ND(5.1) {ND(214) J}	ND(6.2)	81.6 J	ND(5.3)	ND(5.4)	ND(5.4)	ND(6.8)	ND(5.5)	ND(5.3) {ND(219)}	ND(6.9) {ND(280)}

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T035-SL0154 1-1.5 8/17/98	T039-SL0157 0-0.5 8/17/98	T040-SL0314 0-0.5 8/27/98	T041-SL0149 1-1.5 8/17/98	T042-SL0290 1-1.5 8/27/98	T043-SL0161 0-0.5 8/17/98	T044-SL0287 0-0.5 8/26/98	T045-SL0166 0-0.5 8/17/98	T046-SL0284 1-1.5 8/26/98	T047-SL0153 1-1.5 8/17/98	T048-SL0270 2-2.5 8/25/98	T049-SL0162 0-0.5 8/17/98
<b>Semivolatile Organics</b>												
1,2,4,5-Tetrachlorobenzene	ND(0.47)	ND(0.36)	0.3 J [0.17 J]	ND(0.4)	0.093 J	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	ND(0.46)
1,2,4-Trichlorobenzene	0.44 J	0.16 J	2 [0.80 J]	0.11 J	0.93	0.18 J	0.23 J	0.076 J	0.071 J [ND(0.36)]	0.044 J [ND(1.0)]	ND(0.34)	ND(0.46)
1,2-Dichlorobenzene	ND(0.47)	ND(0.36)	ND(0.35) [ND(1.7)]	ND(0.4)	ND(0.38)	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	ND(0.46)
1,3-Dichlorobenzene	0.26 J	ND(0.36)	ND(0.35) [ND(1.7)]	ND(0.4)	ND(0.38)	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	ND(0.46)
1,4-Dichlorobenzene	0.98	0.043 J	0.14 J [ND(1.7)]	0.088 J	0.38 J	ND(1.3)	0.11 J	ND(0.73)	0.071 J [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	0.048 J
2,4-Dimethylphenol	ND(0.47)	0.044 J	0.43 J [0.24 J]	ND(0.4)	0.34 J	0.38 J	0.23 J	3.8	1.1 J [0.049 J]	0.83 [0.14 J]	2.1 J	ND(0.46)
2-Chloronaphthalene	ND(0.47)	ND(0.36)	ND(0.35) [ND(1.7)]	ND(0.4)	0.039 J	ND(1.3)	ND(0.35)	0.18 J	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	0.044 J	ND(0.46)
2-Methylnaphthalene	0.069 J	0.05 J	0.2 J [ND(1.7)]	0.042 J	0.16 J	0.76 J	0.058 J	0.18 J	0.055 J [ND(0.36)]	0.096 J [ND(1.0)]	0.079 J	ND(0.46)
2-Methylphenol	ND(0.47)	0.051 J	0.44 [ND(1.7)]	0.06 J	0.18 J	0.26 J	0.38 J	3.2	0.52 J [0.19 J]	0.75 [0.22 J]	0.21 J	ND(0.46)
4-Methylphenol	0.057 J	0.13 J	0.95 [0.61 J]	0.086 J	0.38 J	0.53 J	0.41	7.8	1.3 [ND(0.36)]	2.1 [0.26 J]	0.96	ND(0.46)
Acenaphthene	ND(0.47)	0.093 J	0.17 J [0.19 J]	ND(0.4)	0.16 J	2.2	0.035 J	ND(0.73)	ND(0.36) [ND(0.36)]	0.042 J [ND(1.0)]	0.12 J	ND(0.46)
Acenaphthylene	ND(0.47)	0.061 J	0.42 J [0.55 J]	ND(0.4)	0.18 J	0.18 J	0.11 J	ND(0.73)	0.14 J [0.16 J]	0.034 J [0.10 J]	0.048 J	ND(0.46)
Acetophenone	ND(0.47)	0.077 J	0.26 J [ND(1.7)]	0.048 J	0.092 J	0.31 J	0.15 J	0.55 J	0.18 J [ND(0.36)]	0.17 J [ND(1.0)]	ND(0.34)	ND(0.46)
Aniline	ND(1.2)	ND(0.91)	1.3 [9.8]	ND(1)	3	4	13 J	24	6.5 J [16]	1.3 [6.4]	5.2 J	ND(1.2)
Anthracene	0.055 J	0.44	0.54 [0.53 J]	0.1 J	0.53	4.1	0.079 J	0.091 J	0.082 J [0.10 J]	0.083 J [0.12 J]	0.2 J	0.046 J
Benzo(a)anthracene	0.32 J	1.6	2.3 [1.6 J]	0.47	2.2	8.1	0.4 J	1.2	0.36 J [0.34 J]	0.38 [0.58 J]	0.34 J	0.23 J
Benzo(a)pyrene	0.39 J	1.9	2.8 J [2.1]	0.56	2.4	7.2 J	0.53 J	1.2 J	0.5 J [0.45]	0.46 J [0.73 J]	0.38 J	0.26 J
Benzo(b)fluoranthene	0.34 J	1.3	2.5 [1.9]	0.54	1.9	7.7 J	0.6 J	3.7 J	0.85 J [0.66]	0.5 J [1.2]	0.37 J	0.3 J
Benzo(g,h,i)perylene	0.3 J	1.7 J	2 J [0.85 J]	0.44	1.7 J	7.2 J	0.19 J	2.4 J	0.22 J [0.15 J]	0.52 J [0.35 J]	0.11 J	0.23 J
Benzo(k)fluoranthene	0.42 J	1.6 J	2.5 [2.2]	0.49	1.9	6.4 J	0.71	1.9 J	0.63 J [0.88]	0.43 J [ND(1.0)]	0.42 J	0.26 J
Benzyl Alcohol	ND(0.47)	0.039 J	0.27 J [ND(1.7)]	0.067 J	ND(0.38)	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	0.067 J
bis(2-Ethylhexyl)phthalate	ND(0.47)	0.25 J	0.25 J [0.14 J]	ND(0.4)	ND(0.38)	ND(1.3)	0.042 J	ND(0.73)	0.16 J [0.19 J]	ND(0.36) [ND(1.0)]	ND(0.34)	ND(0.46)
Butylbenzylphthalate	ND(0.47)	0.084 J	ND(0.35) [ND(1.7)]	ND(0.4)	ND(0.38)	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	R	ND(0.46)
Chrysene	0.44 J	1.7	2.7 [1.9]	0.58	2.4	8.8	0.52 J	2.6	0.53 J [0.47]	0.51 [0.77 J]	0.4 J	0.3 J
Di-n-Butylphthalate	ND(0.47)	0.15 J	0.97 [0.62 J]	0.041 J	1.4	0.53 J	0.53	3.6 J	0.12 J [0.082 J]	1.1 [1.8]	1.6	ND(0.46)
Dibenzo(a,h)anthracene	0.086 J	0.65	0.61 [0.25 J]	0.17 J	0.52	2.3 J	0.076 J	0.89 J	0.085 J [0.052 J]	0.17 J [0.12 J]	0.039 J	0.084 J
Dibenzofuran	ND(0.47)	0.12 J	0.16 J [ND(1.7)]	0.042 J	0.15 J	1.5	0.032 J	ND(0.73)	0.038 J [ND(0.36)]	0.046 J [ND(1.0)]	0.12 J	ND(0.46)
Fluoranthene	0.7 J	3.4	4.4 J [2.4]	0.9	3.8 J	15 J	0.82 J	1.5 J	0.69 J [0.69]	0.64 [1.0]	0.92 J	0.47 J
Fluorene	0.048 J	0.12 J	0.16 J [0.18 J]	0.07 J	0.16 J	2.7	0.035 J	ND(0.73)	0.047 J [0.029 J]	0.037 J [ND(1.0)]	0.14 J	ND(0.46)
Hexachlorobenzene	ND(0.47)	ND(0.36)	ND(0.35) [ND(1.7)]	ND(0.4)	ND(0.38)	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	ND(0.46)
Hexachlorobutadiene	ND(0.47)	ND(0.36)	ND(0.35) [ND(1.7)]	ND(0.4)	ND(0.38)	0.43 J	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	R	ND(0.46)
Indeno(1,2,3-cd)pyrene	0.28 J	1.8 J	1.8 [0.86 J]	0.44	1.6	7.2 J	0.18 J	2.4 J	0.23 J [0.18 J]	0.53 J [0.37 J]	0.1 J	0.23 J
Isophorone	ND(0.47)	0.034 J	0.63 [ND(1.7)]	0.059 J	0.15 J	ND(1.3)	0.17 J	0.38 J	ND(0.36) [ND(0.36)]	0.21 J [ND(1.0)]	0.16 J	ND(0.46)
N-Nitrosodiphenylamine	ND(0.47)	ND(0.36)	ND(0.35) [ND(1.7)]	ND(0.4)	ND(0.38)	0.12 J	ND(0.35)	0.41 J	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	ND(0.46)
Naphthalene	0.14 J	0.12 J	0.48 [ND(1.7)]	0.093 J	0.5 J	1.1 J	0.15 J	0.3 J	0.24 J [0.12 J]	0.14 J [ND(1.0)]	0.2 J	ND(0.46)
Nitrobenzene	ND(0.47)	0.065 J	0.094 J [ND(1.7)]	ND(0.4)	ND(0.38)	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	0.055 J [ND(1.0)]	ND(0.34)	ND(0.46)
o-Toluidine	ND(0.47)	ND(0.36)	ND(0.35) [0.19 J]	ND(0.4)	ND(0.38)	ND(1.3)	0.2 J	ND(0.73)	0.2 J [0.64 J]	ND(0.36) [0.18 J]	ND(0.34)	ND(0.46)
Pentachlorobenzene	ND(0.47)	0.11 J	0.065 J [ND(1.7)]	ND(0.4)	ND(0.38)	ND(1.3)	ND(0.35)	ND(0.73)	ND(0.36) [ND(0.36)]	ND(0.36) [ND(1.0)]	ND(0.34)	ND(0.46)
Phenanthrene	0.54	2	2.5 [1.6 J]	0.72	2.8	15	0.41	0.55 J	0.41 [0.36]	0.53 [0.65 J]	0.98	0.28 J
Phenol	ND(0.47)	0.25 J	2 [2.2]	ND(0.4)	1.9	3.1	2.2	9.1	7.6 [1.9]	2.4 [1.4]	0.89	ND(0.46)
Pyrene	0.83	4.6	3.6 J [1.8]	0.97	4	16	0.64 J	1.6	0.48 J [0.56]	0.85 [0.83 J]	0.71 J	0.51
<b>Organochlorine Pesticides</b>												
4,4'-DDE	ND(0.97)	ND(3.7)	ND(18)	ND(4.1)	ND(4)	ND(2)	ND(1.8)	ND(7.5)	ND(1.9)	ND(7.4)	ND(0.18)	ND(0.24)
4,4'-DDT	ND(0.97)	ND(3.7)	ND(18)	ND(4.1)	ND(4)	ND(2)	ND(1.8)	ND(7.5)	ND(1.9)	ND(7.4)	ND(0.18)	ND(0.24)
Endosulfan II	ND(0.97)	ND(3.7)	ND(18)	ND(4.1)	ND(4)	ND(2)	ND(1.8)	ND(7.5)	ND(1.9)	ND(7.4)	ND(0.18)	ND(0.24)
Endrin Aldehyde	ND(0.97)	ND(3.7)	ND(18)	ND(4.1)	ND(4)	ND(2)	ND(1.8)	ND(7.5)	ND(1.9)	ND(7.4)	ND(0.18)	ND(0.24)
Dieldrin	ND(0.97)	ND(3.7)	ND(18)	ND(4.1)	R	R	ND(1.8)	ND(7.5)	ND(1.9)	ND(7.4)	ND(0.18)	ND(0.24)
Kepone	R	R	R	R	R	R	R	R	R	R	R	R
<b>Dioxins</b>												
WHO TEF	2.60E-04	1.80E-04	2.70E-03	2.30E-04	1.40E-03	3.60E-04	2.70E-04	2.80E-04	2.60E-04	9.90E-05	5.75E-05	3.60E-05
<b>Inorganics</b>												
Antimony	1.2	1.8	10.3 J [6.30]	1.3	2	2.3	2.5 J	4.3 J	1 J [0.850 B]	6.2 [21.4]	0.61 J	1.2
Arsenic	2.7	3	9.2 J [10.9]	4.1	17.6 J	15.1	4.1	9.9	4.2 [5.00]	8.9 [11.1]	5.4	3.2
Barium	38.7 J	26.2 J	67.2 [78.1]	37.6 J	84.7	114 J	39.6	46.5 J	41 [42.8]	36.5 J [57.9]	24.7	34.7 J
Beryllium	0.26 J	0.16 J	0.28 [0.410 B]	0.24 J	0.22	0.22 J	0.15 J	0.12 J	0.25 J [0.420 B]	ND(0.03) [0.380 B]	0.04	0.18 J
Cadmium	ND(0.04)	0.5	1.5 [2.30]	ND(0.04)	0.97	5.1	1.1 J	0.7	ND(0.03) [0.160 B]	15.5 [29.0]	ND(0.03)	ND(0.05)
Chromium	22.7 J	13 J	43.1 J [52.3]	20.6 J	31.8 J	20.2 J	14.5 J	20.5 J	24.5 J [24.1]	9.6 J [15.9]	7.2 J	12.8

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T035-SL0154 1-1.5 8/17/98	T039-SL0157 0-0.5 8/17/98	T040-SL0314 0-0.5 8/27/98	T041-SL0149 1-1.5 8/17/98	T042-SL0290 1-1.5 8/27/98	T043-SL0161 0-0.5 8/17/98	T044-SL0287 0-0.5 8/26/98	T045-SL0166 0-0.5 8/17/98	T046-SL0284 1-1.5 8/26/98	T047-SL0153 1-1.5 8/17/98	T048-SL0270 2-2.5 8/25/98	T049-SL0162 0-0.5 8/17/98
Cobalt	6.1	6.7	12.4 {16.7}	7.5	9.9	8.5	6.9	8.2	7.6 {9.00}	8 {13.7}	8.2	7
Copper	36.6	218	357 {420 J}	70.4	268	376	134 J	610	82.7 J {79.4}	14000 {25400}	87.9 J	22.3
Lead	83.7 J	142 J	433 J {473}	84.0 J	811 J	1120 J	256	508 J	78.6 {71.6}	545 J {20400}	31.2	22.8 J
Mercury	0.27	0.17	1.8 {1.60}	0.19	3.3	12.5	0.15 J	0.19	0.38 J {0.440 J}	0.77 {0.990}	0.09 J	0.17
Nickel	11.9 J	14 J	29.6 J {37.8 J}	15.0 J	21.2 J	23.9 J	15.1	15.9 J	14.3 {17.0}	58.3 J {126}	13.8	11.9 J
Selenium	ND(0.42)	ND(0.38)	1.7J {1.00}	ND(0.42)	2.5 J	0.58	0.62 J	ND(0.29)	1.1 J {0.740}	0.57 {1.10}	0.65 J	ND(0.47)
Silver	0.37 J	0.19 J	6.4 {5.60 J}	0.42 J	0.56	0.96 J	0.76	0.53 J	0.75 {0.740 B}	0.56 J {12.4}	ND(0.11)	ND(0.19)
Thallium	ND(0.69)	ND(0.63)	ND(0.47) {1.10}	0.83 J	0.87	0.90 J	0.65	0.64 J	0.82 {1.10 B}	0.75 J {1.70}	0.81	ND(0.78)
Tin	2.5	18.7	43.6 J {26.0}	5.6	86.1 J	49.8	9.3	61.4	3.9 {ND(11.1)}	1130 {6350}	3.1	1.5
Vanadium	11.6	10.9	17.6 {20.9}	15.8	15.5	17	13.2	17.7	15.7 {16.7}	13.9 {19.1}	7.5	12.1
Zinc	86.8	252	693 {742}	135	632	672	315	871	146 {153}	9620 {9750}	65.8	71.5
Cyanide	ND(0.71)	ND(0.54)	ND(0.54) {ND(2.70)}	ND(0.59)	ND(0.62)	1.2	ND(0.54)	ND(0.54)	ND(0.56) {ND(2.80)}	ND(0.55) {ND(3.80)}	ND(0.53)	ND(0.68)
Sulfide	ND(7)	ND(5.4)	ND(5.2) {ND(212)}	ND(5.9)	ND(5.7)	ND(5.8)	ND(5.3)	ND(5.5)	ND(5.4) {ND(220)}	ND(5.4) {ND(304)}	ND(5)	ND(6.8)

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T050-SL0266 1-1.5 8/25/98
<b>Semivolatile Organics</b>	
1,2,4,5-Tetrachlorobenzene	ND(0.35)
1,2,4-Trichlorobenzene	ND(0.35)
1,2-Dichlorobenzene	ND(0.35)
1,3-Dichlorobenzene	ND(0.35)
1,4-Dichlorobenzene	ND(0.35)
2,4-Dimethylphenol	ND(0.35)
2-Chloronaphthalene	ND(0.35)
2-Methylnaphthalene	0.089 J
2-Methylphenol	ND(0.35)
4-Methylphenol	0.15 J
Acenaphthene	ND(0.35)
Acenaphthylene	ND(0.35)
Acetophenone	0.034 J
Aniline	R
Anthracene	0.058 J
Benzo(a)anthracene	0.39 J
Benzo(a)pyrene	0.41 J
Benzo(b)fluoranthene	0.58 J
Benzo(g,h,i)perylene	0.36 J
Benzo(k)fluoranthene	0.46 J
Benzyl Alcohol	ND(0.35)
bis(2-Ethylhexyl)phthalate	ND(0.35)
Butylbenzylphthalate	ND(0.35)
Chrysene	0.65 J
Di-n-Butylphthalate	0.041 J
Dibenzo(a,h)anthracene	0.094 J
Dibenzofuran	0.04 J
Fluoranthene	0.66 J
Fluorene	0.032 J
Hexachlorobenzene	ND(0.35)
Hexachlorobutadiene	R
Indeno(1,2,3-cd)pyrene	0.24 J
Isophorone	2.6
N-Nitrosodiphenylamine	ND(0.35)
Naphthalene	0.13 J
Nitrobenzene	ND(0.35)
o-Toluidine	ND(0.35)
Pentachlorobenzene	ND(0.35)
Phenanthrene	0.36
Phenol	ND(0.35)
Pyrene	0.53 J
<b>Organochlorine Pesticides</b>	
4,4'-DDE	ND(0.072)
4,4'-DDT	ND(0.072)
Endosulfan II	ND(0.072)
Endrin Aldehyde	ND(0.072)
Dieldrin	ND(0.072)
Kepone	R
<b>Dioxins</b>	
WHO TEF	7.90E-06
<b>Inorganics</b>	
Antimony	1.6 J
Arsenic	7.5
Barium	23.5
Beryllium	ND(0.04)
Cadmium	ND(0.04)
Chromium	14.5 J

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 1 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T050-SL0266 1-1.5 8/25/98
Cobalt	5.9
Copper	376 J
Lead	51.4
Mercury	ND(0.02)
Nickel	14.1
Selenium	2.3 J
Silver	ND(0.13)
Thallium	1.3
Tin	23.6
Vanadium	17.7
Zinc	238
Cyanide	ND(0.53)
Sulfide	ND(5.2)

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 2 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T051-SL0187 0-0.5 8/18/98	T052-SL0244 1-1.5 8/25/98	T053-SL0181 1-1.5 8/18/98	T054-SL0243 1-1.5 8/24/98	T055-SL0173 0-0.5 8/18/98
<b>Semivolatile Organics</b>					
1,2,4-Trichlorobenzene	0.043 J	0.047 J	0.15 J {ND(0.99)}	ND(0.35)	ND(0.39)
1,2,4,5-Tetrachlorobenzene	ND(0.37)	ND(0.5)	ND(0.51) {0.082 J}	ND(0.35)	ND(0.39)
1,4-Dichlorobenzene	ND(0.37)	0.06 J	0.093 J {ND(0.99)}	ND(0.35)	0.047 J
2,4-Dimethylphenol	0.056 J	ND(0.5)	ND(0.51) {ND(0.99)}	ND(0.35)	ND(0.39)
2-Methylnaphthalene	0.17 J	ND(0.5)	0.089 J {ND(0.99)}	0.045 J	ND(0.39)
2-Methylphenol	0.07 J	ND(0.5)	ND(0.51) {ND(0.99)}	ND(0.35)	ND(0.39)
4-Methylphenol	0.18 J	ND(0.5)	0.07 J {ND(0.99)}	0.038 J	ND(0.39)
Acenaphthene	0.17 J	ND(0.5)	0.056 J {0.080 J}	ND(0.35)	ND(0.39)
Acenaphthylene	0.19 J	0.047 J	0.054 J {0.22 J}	0.041 J	ND(0.39)
Acetophenone	0.042 J	ND(0.5)	0.05 J {ND(0.99)}	0.04 J	ND(0.39)
Aniline	ND(0.93)	R	ND(1.3) {0.90 J}	ND(0.89)	ND(0.98)
Anthracene	0.72	0.053 J	0.096 J {0.23 J}	0.035 J	0.047 J
Benzo(a)anthracene	2.4 J	0.25 J	0.48 J {0.79 J}	0.13 J	0.21 J
Benzo(a)pyrene	2.7 J	0.3 J	0.56 {1.0}	0.17 J	0.23 J
Benzo(b)fluoranthene	2.3 J	0.25 J	0.55 {1.0}	0.18 J	0.26 J
Benzo(g,h,i)perylene	2.3 J	0.092 J	0.37 J {0.30 J}	0.042 J	0.14 J
Benzo(k)fluoranthene	2.2 J	0.25 J	0.6 {0.98 J}	0.22 J	0.23 J
Benzyl Alcohol	0.1 J	ND(0.5)	ND(0.51) {ND(0.99)}	0.052 J	ND(0.39)
bis(2-Ethylhexyl)phthalate	0.082 J	ND(0.5)	ND(0.51) {ND(0.99)}	0.05 J	ND(0.39)
Chrysene	2.6 J	0.35 J	0.68 {1.1}	0.23 J	0.27 J
Di-n-Butylphthalate	0.23 J	ND(0.5)	ND(0.51) {0.098 J}	0.037 J	ND(0.39)
Dibenzo(a,h)anthracene	0.61 J	0.046 J	ND(0.51) {0.099 J}	ND(0.35)	ND(0.39)
Dibenzofuran	0.22 J	ND(0.5)	0.052 J {ND(0.99)}	0.032 J	ND(0.39)
Fluoranthene	4.1 J	0.66 J	1.1 J {1.8}	0.4 J	0.44 J
Fluorene	0.2 J	ND(0.5)	0.088 J {0.13 J}	ND(0.35)	ND(0.39)
Indeno(1,2,3-cd)pyrene	2.3 J	0.12 J	0.39 J {0.36 J}	0.063 J	0.16 J
Isochlorone	0.12 J	ND(0.5)	ND(0.51) {ND(0.99)}	0.15 J	ND(0.39)
N-Nitrosodiphenylamine	0.08 J	ND(0.5)	ND(0.51) {ND(0.99)}	ND(0.35)	ND(0.39)
Naphthalene	0.3 J	0.065 J	0.17 J {ND(0.99)}	0.079 J	0.045 J
Pentachlorobenzene	ND(0.37)	ND(0.5)	0.079 J {0.057 J}	ND(0.35)	ND(0.39)
Phenanthrene	3.8	0.36 J	0.93 {1.3}	0.25 J	0.3 J
Phenol	0.52	0.2 J	0.43 J {0.23 J}	0.08 J	ND(0.39)
Pyrene	6.4	0.51 J	1.3 {1.4}	0.29 J	0.46
<b>Organochlorine Pesticides</b>					
4,4'-DDT	ND(0.76)	ND(0.26)	ND(1)	ND(0.18)	R
Kepon	R	R	R	R	R
<b>Dioxins/Furans</b>					
WHO TEF	2.10E-04	1.30E-04	1.20E-04	4.50E-05	8.30E-05
<b>Inorganics</b>					
Antimony	1.5 J	1.3 J	0.74 J {0.930 J}	4.2 J	0.55 J
Arsenic	9.8	3.4	5.9 {5.70}	25.6	2.5
Barium	50.6	35.5	55.2 {55.0}	110	31
Beryllium	0.25 J	0.23 J	0.4 J {0.490 B}	0.43 J	0.24 J
Cadmium	ND(0.09)	ND(0.05)	ND(0.12) {0.340 B}	ND(0.04)	ND(0.08)
Chromium	17.9	53.9 J	46.1 {46.1}	20.9 J	12.6
Cobalt	4.8 J	7.5	7.1 {8.70}	11.1	5.7
Copper	260	52.9 J	101 {103}	107 J	19.4
Lead	99.3	75.9	107 {110}	126	22.3
Mercury	0.49	0.76 J	1.2 {1.20}	0.10 J	0.07
Nickel	20	12.4	23.1 {21.2}	33.2	12.9
Selenium	0.62	1.1 J	ND(0.51) {1.30}	3.4 J	ND(0.32)
Silver	0.16 J	0.56	5 {4.20}	ND(0.14)	0.27 J
Thallium	R	0.96	R {1.00 B}	2	R
Tin	20.4	6.6	5.1 {ND(15.0)}	28	2.9
Vanadium	21.9	10.6	42 {37.4}	28.6	11.1
Zinc	243	80.4	161 {141}	72.5	73

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 3 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T056-SL0238 0-0.5 8/24/98	T057-SL0179 2-2.5 8/18/98	T058-SL0236 0-0.5 8/24/98	T059-SL0167 0-0.5 8/18/98	T060-SL0233 1-1.5 8/21/98	T061-SL0184 0-0.5 8/18/98	T062-SL0229 0-0.5 8/21/98	T063-SL0171 0-0.5 8/18/98
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	ND(0.43)	ND(0.36)	0.12 J {ND(1.8)}	ND(0.42)	ND(0.34)	ND(0.34) {ND(3.4)}	ND(0.4)	0.21 J
1,2,4-Trichlorobenzene	ND(0.43)	ND(0.36)	0.21 J {ND(1.8)}	ND(0.42)	0.04 J	ND(0.34) {ND(3.4)}	ND(0.4)	1.1
1,4-Dichlorobenzene	0.04 J	ND(0.36)	0.036 J {ND(1.8)}	0.051 J	ND(0.34)	ND(0.34) {ND(3.4)}	0.047 J	0.088 J
2,4-Dimethylphenol	ND(0.43)	ND(0.36)	0.25 J {ND(1.8)}	ND(0.42)	0.2 J	ND(0.34) {ND(3.4)}	ND(0.4)	ND(0.36)
2-Methylnaphthalene	ND(0.43)	ND(0.36)	0.86 {ND(1.8)}	ND(0.42)	0.6	0.82 {ND(3.4)}	ND(0.4)	0.04 J
2-Methylphenol	ND(0.43)	ND(0.36)	0.084 J {ND(1.8)}	ND(0.42)	0.28 J	ND(0.34) {ND(3.4)}	ND(0.4)	ND(0.36)
4-Methylphenol	ND(0.43)	ND(0.36)	0.45 {0.16 J}	ND(0.42)	0.69	0.1 J {ND(3.4)}	ND(0.4)	0.06 J
Acenaphthene	ND(0.43)	ND(0.36)	0.2 J {0.14 J}	ND(0.42)	0.095 J	0.23 J {0.29 J}	ND(0.4)	ND(0.36)
Acenaphthylene	0.051 J	ND(0.36)	2.5 J {2.6}	ND(0.42)	0.095 J	1.6 {5.0}	ND(0.4)	ND(0.36)
Acetophenone	0.094 J	ND(0.36)	0.095 J {ND(1.8)}	ND(0.42)	0.084 J	0.049 J {ND(3.4)}	ND(0.4)	0.096 J
Aniline	R	ND(0.9)	1.1 J {3.0}	ND(1.1)	0.33 J	ND(0.86) {ND(3.4)}	ND(1)	ND(0.9)
Anthracene	0.074 J	ND(0.36)	2 {1.3 J}	0.054 J	0.49 J	2.1 {2.9 J}	0.058 J	0.042 J
Benzo(a)anthracene	0.29 J	0.16 J	6.3 J {4.7}	0.3 J	4	13 J {12}	0.28 J	0.25 J
Benzo(a)pyrene	0.33 J	0.16 J	6.2 J {5.2}	0.34 J	4.7	14 J {13}	0.3 J	0.3 J
Benzo(b)fluoranthene	0.3 J	0.16 J	5.6 J {6.6}	0.3 J	4.4	13 J {16}	0.29 J	0.37
Benzo(g,h,i)perylene	0.09 J	0.12 J	4.7 J {1.4 J}	0.3 J	2.8	13 J {5.3}	0.26 J	0.35 J
Benzo(k)fluoranthene	0.44	0.18 J	5.8 J {8.0}	0.34 J	2.8	13 J {8.2}	0.27 J	0.32 J
Benzyl Alcohol	0.12 J	0.034 J	0.33 J {ND(1.8)}	ND(0.42)	ND(0.34)	ND(0.34) {ND(3.4)}	0.097 J	ND(0.36)
bis(2-Ethylhexyl)phthalate	ND(0.43)	ND(0.36)	0.35 J {0.17 J}	0.24 J	ND(0.34)	0.17 J {ND(3.4)}	0.08 J	0.11 J
Butylbenzylphthalate	ND(0.43)	ND(0.36)	0.12 J {ND(1.8)}	ND(0.42)	ND(0.34)	ND(0.34) {ND(3.4)}	ND(0.4)	ND(0.36)
Chrysene	0.38 J	0.24 J	8.6 J {6.9}	0.4 J	5.2	20 J {17}	0.34 J	0.38
Di-n-Butylphthalate	0.04 J	ND(0.36)	0.45 {0.30 J}	ND(0.42)	0.4 J	0.073 J {ND(3.4)}	ND(0.4)	ND(0.36)
Dibenzo(a,h)anthracene	0.044 J	ND(0.36)	0.88 J {0.39 J}	0.07 J	0.92	3.5 J {1.6 J}	0.064 J	0.09 J
Dibenzofuran	ND(0.43)	ND(0.36)	0.61 J {0.26 J}	ND(0.42)	0.24 J	0.78 {0.74 J}	ND(0.4)	ND(0.36)
Fluoranthene	0.78 J	0.39 J	21 J {14}	0.61 J	5.4	34 J {31}	0.61 J	0.68
Fluorene	ND(0.43)	0.036 J	1.2 {0.80 J}	ND(0.42)	0.15 J	1.9 {2.4 J}	ND(0.4)	ND(0.36)
Indeno(1,2,3-cd)pyrene	0.1 J	0.12 J	3.4 J {1.4 J}	0.28 J	2.5	12 J {5.4}	0.24 J	0.31 J
Isophorone	ND(0.43)	ND(0.36)	0.19 J {ND(1.8)}	ND(0.42)	0.73	0.26 J {ND(3.4)}	ND(0.4)	0.066 J
Naphthalene	0.055 J	ND(0.36)	1 {ND(1.8)}	0.041 J	0.55 J	1.4 {ND(3.4)}	0.05 J	0.086 J
o-Toluidine	ND(0.43)	ND(0.36)	0.11 J {ND(3.6)}	ND(0.42)	ND(0.34)	ND(0.34) {ND(6.9)}	ND(0.4)	ND(0.36)
Pentachlorobenzene	ND(0.43)	ND(0.36)	ND(0.37) {ND(1.8)}	ND(0.42)	ND(0.34)	ND(0.34) {ND(3.4)}	ND(0.4)	0.085 J
Phenanthrene	0.44	0.43	19 {9.0}	0.41 J	4.3	32 {26}	0.36 J	0.39
Phenol	0.2 J	ND(0.36)	1.1 {ND(1.8)}	ND(0.42)	0.65 J	ND(0.34) {ND(3.4)}	0.21 J	ND(0.36)
Pyrene	0.59	0.55	20 J {10}	0.71	7.2	47 {25}	0.6	0.83
<b>Organochlorine Pesticides</b>								
4,4'-DDE	ND(0.088)	0.1	ND(1.9) {ND(0.19)}	ND(0.43)	R	ND(0.7) {ND(0.71)}	ND(0.4)	47 J
4,4'-DDT	ND(0.088)	ND(0.074)	ND(1.9) {ND(0.19)}	ND(0.43)	ND(0.35)	ND(0.7) {0.27}	ND(0.4)	ND(37)
Dieldrin	R	R	ND(1.9) {ND(0.19)}	ND(0.43)	R	ND(0.7) {ND(0.71)}	ND(0.4)	R
Endosulfan II	ND(0.088)	ND(0.074)	ND(1.9) {0.83}	ND(0.43)	ND(0.35)	ND(0.7) {0.19}	ND(0.4)	ND(37)
Endrin Aldehyde	ND(0.088)	ND(0.074)	ND(1.9) {0.44}	ND(0.43)	ND(0.35)	ND(0.7) {0.073}	ND(0.4)	ND(37)
Heptachlor Epoxide	ND(0.044)	ND(0.037)	ND(0.94) {ND(0.19)}	ND(0.22)	0.22 J	ND(0.35) {ND(0.71)}	ND(0.2)	R
Kepone	R	R	R {ND(3.6)}	R	R	R {ND(1.4)}	R	R
<b>Herbicides</b>								
2,4,5-T	ND(0.0062)	ND(0.0052)	ND(0.0053) {ND(0.022)}	NS	0.01 J	ND(0.005) {ND(0.021)}	NS	NS
2,4-D	ND(0.061)	ND(0.051)	ND(0.052) {ND(0.088)}	NS	ND(0.049)	0.24 {ND(0.083)}	NS	NS
<b>Dioxins</b>								
WHO TEF	3.70E-04	4.80E-05	5.30E-04	1.60E-05	7.70E-05	4.09E-05	3.10E-05	1.2E-02
<b>Inorganics</b>								
Antimony	0.93 J	0.38 J	1.1 J {1.30}	ND(0.43)	1.5	0.44 J {0.360 J}	0.62	5.4 J
Arsenic	3.1	9	3.8 {6.20}	2.8	9.4	5.8 {6.50}	3.1	4.5
Barium	36.5	175	59.4 {69.0}	29.8	89.1 J	15.5 J {21.7}	35.0 J	51.7
Beryllium	0.17 J	0.35 J	0.05 J {0.280 B}	0.20 J	0.25	0.18 J {0.170 B}	0.15	0.23 J
Cadmium	ND(0.04)	ND(0.09)	0.28 J {0.450 B}	ND(0.1)	ND(0.03)	0.09 J {0.380 B}	ND(0.03)	0.62

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 3 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T056-SL0238 0-0.5 8/24/98	T057-SL0179 2-2.5 8/18/98	T058-SL0236 0-0.5 8/24/98	T059-SL0167 0-0.5 8/18/98	T060-SL0233 1-1.5 8/21/98	T061-SL0184 0-0.5 8/18/98	T062-SL0229 0-0.5 8/21/98	T063-SL0171 0-0.5 8/18/98
Chromium	14.2 J	4.8	10.4 J {14.4 R}	11	12	6.7 {6.10}	12.9	22.2
Cobalt	7.8	1.3 J	4.9 {9.00}	5.0 J	5.4	4.6 {7.20}	6.7	7.6
Copper	21.8 J	27	106 J {120}	15	297	17.8 {21.9}	19.5	653
Lead	29.5	11.6	136 {162}	17.4	82.3	53.7 {67.3}	23.5	240
Mercury	0.06 J	0.040 J	0.31 J {0.440 J}	0.06	0.19	0.12 {0.140}	0.1	0.53
Nickel	13.7	6.7	10.7 {19.8}	11.9	11.9 J	13.3 {14.1}	11.5 J	27.8
Selenium	1.3 J	ND(0.38)	0.81 J {0.600}	ND(0.44)	0.38	ND(0.35) {0.680}	ND(0.31)	ND(0.36)
Silver	0.23	ND(0.15)	0.13 {0.260 B}	ND(0.17)	ND(0.12)	ND(0.14) {0.120 B}	0.28	1.9
Thallium	1.1	R	0.66 {0.830 B}	R	0.51	R {0.810 B}	0.8	R
Tin	2.6	3	8.5 {ND(11.0)}	2.1	16.4	1.6 {ND(10.4)}	2.1	39.9
Vanadium	14	5.9	16.9 {22.7}	8.5	13.9	13.6 {14.6}	11.7	10.8
Zinc	73	14.9	201 {233}	67.8	320 J	125 {129}	65.4 J	499
Sulfide	ND(6.4)	ND(5.3)	ND(5.5) {ND(221)}	ND(6.2)	8.1 J	ND(5.1) {ND(208)}	ND(5.9)	ND(5.3)



TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 4 APPIX-3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T056-SL0517 0-0.5 9/15/98	T057-SL0136 1-1.5 8/14/98	T058-SL0521 1-1.5 9/15/98	T059-SL0135 0-0.5 8/14/98	T060-SL0525 0-0.5 9/15/98	T061-SL0140 0-0.5 8/14/98	T062-SL0527 2-2.5 9/16/98	T063-SL0142 0-0.5 8/14/98
<b>Semivolatile Organics</b>								
1,2,4-Trichlorobenzene	0.22 J	ND(0.55)	0.22 J	0.032 J	0.1 J	0.078 J	0.075 J	0.055 J [ND(0.38)]
1,2-Dichlorobenzene	0.15 J	ND(0.55)	0.15 J	ND(0.34)	0.08 J	ND(0.36)	ND(0.35)	ND(0.78) [ND(0.38)]
1,3-Dichlorobenzene	0.23 J	ND(0.55)	0.22 J	ND(0.34)	0.12 J	ND(0.36)	ND(0.35)	ND(0.78) [ND(0.38)]
1,4-Dichlorobenzene	0.21 J	ND(0.55)	0.16 J	ND(0.34)	ND(0.37)	0.057 J	ND(0.35)	0.056 J [ND(0.38)]
2-Methylnaphthalene	0.12 J	ND(0.55)	0.056 J	0.039 J	ND(0.37)	ND(0.36)	ND(0.35)	ND(0.78) [ND(0.38)]
Acenaphthene	0.053 J	ND(0.55)	0.076 J	ND(0.34)	ND(0.37)	ND(0.36)	ND(0.35)	ND(0.78) [ND(0.38)]
Acenaphthylene	0.047 J	ND(0.55)	0.12 J	0.067 J	ND(0.37)	ND(0.36)	0.052 J	ND(0.78) [0.040 J]
Anthracene	0.073 J	ND(0.55)	0.24 J	0.043 J	0.038 J	0.04 J	ND(0.35)	0.038 J [0.069 J]
Benzo(a)anthracene	0.53	0.11 J	1.4	0.31 J	0.2 J	0.2 J	0.19 J	0.22 J [0.24 J]
Benzo(a)pyrene	0.57	0.13 J	1.5	0.4	0.2 J	0.22 J	0.29 J	0.23 J [0.27 J]
Benzo(b)fluoranthene	0.4 J	0.093 J	1.5	0.37	0.22 J	0.21 J	0.22 J	0.2 J [0.26 J]
Benzo(g,h,i)perylene	0.44 J	0.089 J	0.9	0.3 J	0.17 J	0.18 J	0.3 J	0.2 J [0.11 J]
Benzo(k)fluoranthene	0.42 J	0.1 J	1.2	0.4	0.18 J	0.19 J	0.21 J	0.23 J [0.21 J]
bis(2-Ethylhexyl)phthalate	0.092 J	ND(0.55)	0.062 J	0.034 J	0.05 J	0.06 J	0.055 J	0.38 J [0.19 J]
Butylbenzylphthalate	ND(0.51)	ND(0.55)	ND(0.36)	ND(0.34)	ND(0.37)	0.038 J	ND(0.35)	0.062 J [ND(0.38)]
Chrysene	0.52	0.13 J	1.8	0.49	0.26 J	0.24 J	0.26 J	0.25 J [0.29 J]
Di-n-Butylphthalate	0.064 J	ND(0.55)	0.07 J	ND(0.34)	0.11 J	ND(0.36)	ND(0.35)	0.092 J [0.047 J]
Dibenzo(a,h)anthracene	0.15 J	ND(0.55)	0.31 J	0.086 J	0.06 J	0.058 J	0.083 J	0.07 J [0.036 J]
Dibenzofuran	ND(0.51)	ND(0.55)	0.089 J	ND(0.34)	ND(0.37)	ND(0.36)	ND(0.35)	ND(0.78) [ND(0.38)]
Diethylphthalate	ND(0.51)	ND(0.55)	ND(0.36)	ND(0.34)	ND(0.37)	ND(0.36)	ND(0.35)	0.072 J [ND(0.38)]
Fluoranthene	0.91	0.26 J	5.1	0.8	0.55	0.48	0.38 J	0.46 J [0.45]
Fluorene	0.046 J	ND(0.55)	0.2 J	ND(0.34)	ND(0.37)	ND(0.36)	ND(0.35)	ND(0.78) [0.032 J]
Indeno(1,2,3-cd)pyrene	0.39 J	0.083 J	0.95	0.28 J	0.18 J	0.17 J	0.23 J	0.19 J [0.12 J]
Isophorone	ND(0.51)	ND(0.55)	ND(0.36)	ND(0.34)	ND(0.37)	ND(0.36)	0.14 J	ND(0.78) [ND(0.38)]
Naphthalene	0.42 J	ND(0.55)	0.16 J	0.079 J	0.037 J	0.044 J	0.065 J	0.053 J [ND(0.38)]
Pentachloroethane	0.14 J	ND(0.55)	ND(0.36)	ND(0.34)	ND(0.37)	ND(0.36)	ND(0.35)	ND(0.78) [ND(1.8)]
Phenanthrene	0.43 J	0.14 J	2.9	0.5	0.3 J	0.31 J	0.25 J	0.27 J [0.32 J]
Pyrene	0.76	0.23 J	2.9	0.97	0.43	0.45	0.42	0.52 J [0.45]
<b>Organochlorine Pesticides</b>								
4,4'-DDE	ND(0.26)	ND(0.28)	0.78	1.1	0.42	ND(7.4)	ND(0.36)	ND(2)
4,4'-DDT	ND(0.26)	ND(0.28)	R	ND(0.7)	ND(0.37)	ND(7.4)	R	ND(2)
Dieldrin	ND(0.26)	ND(0.28)	ND(0.37)	R	ND(0.37)	ND(7.4)	R	ND(2)
Kepone	R	R	R	R	R	R	R	R
<b>Dioxins</b>								
WHO TEF	4.00E-05	3.80E-05	1.30E-04	6.00E-05	3.00E-05	4.60E-05	9.70E-05	3.70E-05
<b>Inorganics</b>								
Antimony	ND(0.5)	1.4	0.48	0.7	ND(0.4)	0.95	ND(0.9)	0.84 [0.540 J]
Arsenic	2.7	3.5	4	3.7	4.9	2.2	2.7	2.5 [3.20]
Barium	35.6	48.9 J	47	40.6 J	50.4	25.1 J	46.2	31.5 [35.5]
Beryllium	0.24	0.28 J	0.34	0.19 J	0.22	0.17	0.17	0.18 [0.290 B]
Cadmium	ND(0.05)	ND(0.05)	ND(0.04)	ND(0.03)	ND(0.04)	ND(0.04)	0.55	ND(0.04) [ND(0.570)]
Chromium	24	20.8 J	31	10.1 J	11.8	10.5 J	17.5	12.4 J [13.8 J]
Cobalt	6.9	8.4	7.8	7.2	9.9	5.7	6.6	6.4 [7.80]
Copper	29.5	62.2	47.9	29.4	28.9	26.7	23.5	25.2 [27.9 J]
Lead	38.7	65.9 J	82.2	51.8 J	34.4	40.5 J	45	34.5 J [40.6]
Mercury	0.25	0.32	0.61	0.16	0.11	0.07	0.25	0.09 [0.0850 B]
Nickel	12	15.4 J	15.3	13.8 J	17.5	10.2 J	12.1	11.1 J [13.2]
Selenium	ND(0.51)	0.52 J	ND(0.38)	ND(0.3)	ND(0.41)	ND(0.37)	0.97 J	ND(0.37) [0.390 B]
Silver	ND(0.2)	0.68 J	1.1	ND(0.12)	ND(0.16)	0.18 J	ND(0.21)	0.2 J [0.330 B]
Thallium	ND(0.85)	0.83 J	0.99	0.88	ND(0.68)	0.75	ND(0.59)	1.1 [0.530 B]
Tin	3.7	5.1	4.1	3	1.6	3	6.7 J	2.6 [ND(11.5)]
Vanadium	10.9	15.8	13.6	14.1	14.4	9.7	10.7	11.9 [12.2]
Zinc	85.6	124	105	90.5	78.6	75.5	71.3 J	73.2 [79.9]

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 5 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T049-SL0124 0-0.5 8/13/98	T050-SL0490 0-0.5 9/11/98	T051-SL0127 1-1.5 8/13/98	T052-SL0512 0-0.5 9/14/98	T053-SL0115 1-1.5 8/13/98	T054-SL0516 1-1.5 9/15/98	T055-SL0131 0-0.5 8/14/98
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	0.41 J {0.31 J}	0.06 J	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
1,2,4-Trichlorobenzene	6.6 {0.97 J}	0.41	0.052 J	0.029 J	ND(0.4)	0.12 J	0.09 J
1,2-Dichlorobenzene	0.1 J {ND(4.4)}	ND(0.36)	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
1,3-Dichlorobenzene	0.073 J {ND(4.4)}	ND(0.36)	0.056 J	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
1,4-Dichlorobenzene	0.21 J {ND(4.4)}	0.22 J	0.24 J	0.044 J	ND(0.4)	0.083 J	0.057 J
2,4-Dimethylphenol	0.25 J {ND(4.4)}	ND(0.36)	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
2-Methylnaphthalene	ND(0.44) {ND(4.4)}	0.065 J	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
2-Methylphenol	0.23 J {ND(4.4)}	0.045 J	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
4-Methylphenol	0.38 J {ND(4.4)}	0.062 J	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
Acenaphthene	ND(0.44) {ND(4.4)}	0.084 J	ND(0.46)	0.021 J	ND(0.4)	ND(0.34)	ND(0.38)
Acenaphthylene	ND(0.44) {ND(4.4)}	0.2 J	ND(0.46)	ND(0.44)	ND(0.4)	0.032 J	ND(0.38)
Acetophenone	0.4 J {ND(4.4)}	0.066 J	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
Aniline	ND(1.1) {6.5}	ND(0.9)	ND(1.2)	ND(1.1)	ND(1)	ND(0.86)	ND(0.96)
Anthracene	0.36 J {0.33 J}	0.24 J	ND(0.46)	0.042 J	ND(0.4)	0.039 J	0.035 J
Benzo(a)anthracene	1.3 {1.0 J}	1	0.11 J	0.21 J	ND(0.4)	0.24 J	0.19 J
Benzo(a)pyrene	2.1 {1.4 J}	1.5 J	0.12 J	0.23 J	0.045 J	0.25 J	0.22 J
Benzo(b)fluoranthene	2.1 {2.6 J}	1.1	0.1 J	0.22 J	0.037 J	0.23 J	0.2 J
Benzo(g,h,i)perylene	1.4 {0.58 J}	1.2	0.098 J	0.19 J	0.042 J	0.22 J	0.19 J
Benzo(k)fluoranthene	1.9 {ND(4.4)}	1	0.098 J	0.19 J	0.036 J	0.22 J	0.22 J
bis(2-Ethylhexyl)phthalate	ND(0.44) {ND(4.4)}	ND(0.36)	ND(0.46)	0.091 J	ND(0.4)	ND(0.34)	ND(0.38)
Chrysene	1.5 {1.2 J}	1.2	0.12 J	0.25 J	0.041 J	0.3 J	0.27 J
Di-n-Butylphthalate	ND(0.44) {ND(4.4)}	0.32 J	ND(0.46)	0.057 J	ND(0.4)	0.12 J	ND(0.38)
Dibenz(a,h)anthracene	0.48 {ND(4.4)}	0.33 J	ND(0.46)	0.063 J	ND(0.4)	0.076 J	0.063 J
Dibenzofuran	0.47 {ND(4.4)}	0.074 J	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
Fluoranthene	2.8 {ND(4.4)}	2.1	0.22 J	0.53	0.059 J	0.72	0.47
Fluorene	0.1 J {ND(4.4)}	0.089 J	ND(0.46)	0.026 J	0.059 J	ND(0.34)	ND(0.38)
Hexachlorobenzene	0.12 J {ND(4.4)}	ND(0.36)	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
Indeno(1,2,3-cd)pyrene	1.4 {0.64 J}	1	0.086 J	0.19 J	0.036 J	0.21 J	0.17 J
Isophorone	ND(0.44) {ND(4.4)}	0.15 J	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
N-Nitrosodiphenylamine	0.092 J {ND(4.4)}	ND(0.36)	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
Naphthalene	0.5 {ND(4.4)}	0.33 J	ND(0.46)	0.036 J	ND(0.4)	0.076 J	0.076 J
Pentachlorobenzene	0.24 J {ND(4.4)}	ND(0.36)	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
Phenanthrene	2 {1.3 J}	1.4	0.12 J	0.25 J	ND(0.4)	0.41	0.31 J
Phenol	ND(0.44) {0.94 J}	0.39	ND(0.46)	ND(0.44)	ND(0.4)	ND(0.34)	ND(0.38)
Pyrene	2.5 {0.96 J}	2.1	0.24 J	0.42 J	0.06 J	0.52	0.56
<b>Organochlorine Pesticides</b>							
4,4'-DDT	ND(910)	ND(1.8)	ND(24)	ND(0.091)	R	ND(3.5)	ND(2)
Dieldrin	ND(910)	R	ND(24)	R	R	ND(3.5)	ND(2)
Kepone	R	R	R	R	R	R	R
<b>Dioxins</b>							
WHO TEF	3.20E-02	3.30E-04	8.30E-05	4.30E-05	9.90E-06	1.20E-04	8.30E-05
<b>Inorganics</b>							
Antimony	8.7 {11.5}	ND(1)	0.52 J	ND(0.42)	0.58 J	0.33	0.72
Arsenic	7 {12.6}	2.5 J	2.3	2.5	1.7	2.3	3.5
Barium	431 {404}	58.4	29.5	38.7	24	22.8	46.2 J
Beryllium	0.3 J {0.590 B}	0.21	0.13 J	0.15	0.15 J	0.16	0.22 J
Cadmium	3.4 {5.40}	0.24	ND(0.05)	ND(0.05)	ND(0.04)	ND(0.03)	ND(0.03)
Chromium	154 {112}	16.4 J	11.3	14.9	9.1	13.7	14.3 J
Cobalt	14.3 {20.4}	5.5 J	6.3	7.9	7	5.9	8.4
Copper	3180 {2460}	116	52.9	25.8	11.6	25.4	54.1
Lead	2100 J {1940}	179	54.7 J	31.7	11.5	39.4	44.6 J
Mercury	1.3 {1.60}	0.26 J	0.04 J	0.12	0.02	0.11	0.17

TABLE 4-3  
 GENERAL ELECTRIC  
 PITTSFIELD, MA

REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 5 APPIX+3 SOIL DATA  
 (ppm, dry-weight)

Appendix IX+3 Constituents	T049-SL0124 0-0.5 8/13/98	T050-SL0490 0-0.5 9/11/98	T051-SL0127 1-1.5 8/13/98	T052-SL0512 0-0.5 9/14/98	T053-SL0115 1-1.5 8/13/98	T054-SL0516 1-1.5 9/15/98	T055-SL0131 0-0.5 8/14/98
Nickel	102 {93.1}	14.4	12	14.2	11.1	10	15.0 J
Selenium	1.5 {3.00}	ND(0.4)	ND(0.56)	ND(0.43)	ND(0.51)	ND(0.33)	ND(0.33)
Silver	8.6 {8.80}	ND(0.33)	ND(0.17)	ND(0.17)	ND(0.16)	ND(0.13)	0.16 J
Thallium	1.1 {1.00 B}	ND(0.69)	ND(0.71)	ND(0.71)	0.69	ND(0.54)	0.63 J
Tin	119 {190}	12.9	4.8	2.7	1.4	3.6	3.6
Vanadium	26.2 {23.8}	11.9 J	8.5	12.7	9.4	7.1	14.9
Zinc	2200 J {2290}	212	89.7 J	85.6	47.5	67.7	98.1

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 6 APPIX-3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T019-SL0081 1-1.5 8/11/98	T021-SL0075 0-0.5 8/11/98	T022-SL0449 1-1.5 9/8/98	T023-SL0085 1-1.5 8/11/98	T024-SL0452 0-0.5 9/9/98	T025-SL0093 0-0.5 8/12/98	T026-SL0456 0-0.5 9/9/98	T027-SL0067 0-0.5 8/12/98	T028-SL0459 2-2.5 9/9/98	T029-SL0095 2-2.5 8/12/98	T030-SL0462 1-1.5 9/9/98	T031-SL0089 0-0.5 8/12/98
<b>Semivolatile Organics</b>												
1,2,4,5-Tetrachlorobenzene	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	ND(0.37)	ND(0.42)	ND(0.38)	ND(0.45)	0.18 J	0.64 J
1,2,4-Trichlorobenzene	ND(0.38)	ND(0.46)	ND(0.38)	0.04 J	ND(0.35) {ND(0.35)}	0.62 J	0.038 J	ND(0.42)	ND(0.38)	0.061 J	0.082 J	7.4
1,3-Dichlorobenzene	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	ND(0.37)	ND(0.42)	ND(0.38)	0.043 J	ND(0.35)	ND(2)
1,4-Dichlorobenzene	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	0.053 J	ND(0.42)	ND(0.38)	0.2 J	ND(0.35)	ND(2)
2,4-Dimethylphenol	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	ND(0.37)	ND(0.42)	ND(0.38)	ND(0.45)	ND(0.35)	ND(2)
2-Methylnaphthalene	ND(0.38)	ND(0.46)	ND(0.38)	0.053 J	ND(0.35) {ND(0.35)}	ND(5.7)	0.034 J	ND(0.42)	ND(0.38)	0.11 J	0.063 J	0.48 J
2-Methylphenol	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	0.038 J	ND(0.42)	ND(0.38)	ND(0.45)	ND(0.35)	ND(2)
4-Methylphenol	ND(0.38)	ND(0.46)	ND(0.38)	0.066 J	ND(0.35) {ND(0.35)}	ND(5.7)	ND(0.37)	ND(0.42)	ND(0.38)	0.096 J	ND(0.35)	ND(2)
Acenaphthene	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	0.043 J {ND(0.35)}	1.4 J	0.051 J	ND(0.42)	ND(0.38)	0.091 J	0.055 J	2.4
Acenaphthylene	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {0.047 J}	1.6 J	ND(0.37)	ND(0.42)	ND(0.38)	0.091 J	0.049 J	ND(2)
Acetophenone	ND(0.38)	0.22 J	0.042 J	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	0.1 J	ND(0.42)	0.038 J	0.083 J	0.035 J	0.19 J
Aniline	ND(0.94)	ND(1.2)	ND(0.96)	ND(1)	ND(0.87) {ND(0.35)}	ND(14)	ND(0.92)	ND(1)	ND(0.96)	ND(1.1)	ND(0.89)	ND(4.9)
Anthracene	0.048 J	0.075 J	0.06 J	0.076 J	0.073 J {0.052 J}	4.4 J	0.13 J	0.059 J	0.11 J	0.23 J	0.16 J	3.8
Benzo(a)anthracene	0.23 J	0.43 J	0.33 J	0.45 J	0.29 J {0.20 J}	26	0.59	0.28 J	0.81	0.98	0.59	5.8
Benzo(a)pyrene	0.27 J	0.57 J	0.36 J	0.48 J	0.27 J {0.25 J}	22	0.62	0.3 J	0.93	1	0.6	5.2
Benzo(b)fluoranthene	0.24 J	0.64 J	0.32 J	0.46 J	0.24 J {0.21 J}	22	0.66	0.25 J	0.72	0.79	0.48	4.8
Benzo(g,h,i)perylene	0.2 J	0.74 J	0.32 J	0.42 J	0.1 J {0.068 J}	13	0.52	0.22 J	0.84	0.67	0.51	3.2
Benzo(k)fluoranthene	0.28 J	0.54 J	0.31 J	0.49 J	0.22 J {0.27 J}	22	0.61	0.29 J	0.71	0.92	0.51	4.5
Benzyl Alcohol	ND(0.38)	0.56	ND(0.38)	0.16 J	ND(0.35) {ND(0.35)}	ND(5.7)	0.29 J	0.058 J	ND(0.38)	ND(0.45)	ND(0.35)	ND(2)
bis(2-Ethylhexyl)phthalate	ND(0.38)	1.6	0.053 J	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	0.055 J	ND(0.42)	ND(0.38)	0.096 J	ND(0.35)	ND(2)
Butylbenzylphthalate	ND(0.38)	0.4 J	ND(0.38)	ND(0.4)	0.4 {ND(0.35)}	ND(5.7)	0.05 J	ND(0.42)	ND(0.38)	0.051 J	ND(0.35)	ND(2)
Chrysene	0.29 J	0.65	0.39	0.58	0.31 J {0.26 J}	26	0.65	0.34 J	0.89	1.2	1.8	5.6
Di-n-Butylphthalate	ND(0.38)	0.11 J	0.095 J	0.047 J	0.05 J {ND(0.35)}	ND(5.7)	0.17 J	ND(0.42)	0.077 J	ND(0.45)	0.093 J	ND(2)
Dibenzo(a,h)anthracene	0.067 J	0.23 J	0.1 J	0.12 J	0.07 J {ND(0.35)}	5.2 J	0.13 J	0.058 J	0.23 J	0.2 J	0.16 J	0.93 J
Dibenzofuran	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	0.032 J {ND(0.35)}	0.82 J	0.033 J	ND(0.42)	ND(0.38)	0.07 J	0.04 J	1.3 J
Fluoranthene	0.44	1.1	0.77 J	0.94	0.75 J {0.44}	55	1.4 J	0.69	1.8	2	1.3	14
Fluorene	ND(0.38)	ND(0.46)	ND(0.38)	0.055 J	0.036 J {ND(0.35)}	1.7 J	0.062 J	ND(0.42)	0.054 J	0.16 J	0.6 J	2.5
Hexachlorobenzene	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	ND(0.37)	ND(0.42)	ND(0.38)	ND(0.45)	ND(0.35)	ND(2)
Indeno(1,2,3-cd)pyrene	0.19 J	0.67 J	0.29 J	0.4 J	0.19 J {0.080 J}	14	0.39 J	0.2 J	0.7	0.63	0.43	3.1
Isophorone	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	0.15 J {ND(0.35)}	ND(5.7)	ND(0.37)	ND(0.42)	ND(0.38)	ND(0.45)	ND(0.35)	ND(2)
Naphthalene	0.045 J	0.09 J	0.038 J	0.1 J	0.056 J {ND(0.35)}	0.83 J	0.058 J	0.048 J	0.063 J	0.22 J	0.057 J	0.75 J
Pentachlorobenzene	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	ND(0.37)	ND(0.42)	ND(0.38)	ND(0.45)	ND(0.35)	ND(2)
Phenanthrene	0.36 J	0.54	0.39	0.64	0.49 J {0.26 J}	16	0.85	0.43	0.6	1.6	0.65	18
Phenol	ND(0.38)	ND(0.46)	ND(0.38)	ND(0.4)	ND(0.35) {ND(0.35)}	ND(5.7)	0.24 J	ND(0.42)	0.13 J	ND(0.45)	ND(0.35)	ND(2)
Pyrene	0.5	1.7	0.8	1.3	0.63 J {0.39}	51	1.6	0.83	2	2.6	1.1	14
<b>Organochlorine Pesticides</b>												
4,4'-DDE	ND(0.087)	ND(0.047)	ND(0.04)	0.27 J	ND(0.11)	ND(4.1)	ND(0.19)	ND(0.086)	ND(0.12)	ND(0.23)	0.3	ND(400)
4,4'-DDT	ND(0.087)	ND(0.047)	ND(0.04)	ND(0.2)	ND(0.11)	ND(4.1)	ND(0.19)	R	ND(0.12)	R	ND(0.18)	ND(400)
Dieldrin	ND(0.087)	R	ND(0.04)	R	ND(0.11)	ND(4.1)	0.2	ND(0.086)	ND(0.12)	R	0.25 J	ND(400)
Endosulfan II	ND(0.087)	ND(0.047)	ND(0.04)	ND(0.2)	ND(0.11)	ND(4.1)	ND(0.19)	ND(0.086)	ND(0.12)	ND(0.23)	ND(0.18)	ND(400)
Endrin Aldehyde	ND(0.087)	0.06 J	ND(0.04)	ND(0.2)	ND(0.11)	ND(4.1)	ND(0.19)	ND(0.086)	ND(0.12)	ND(0.23)	0.23 J	ND(400)
Kepone	R	R	R	R	R	R	R	R	R	R	R	R
<b>Herbicides</b>												
2,4,5-T	NS	NS	NS	NS	NS	NS	0.0066 J	NS	NS	NS	NS	NS
2,4,5-TP	NS	NS	NS	NS	NS	NS	0.0066 J	NS	NS	NS	NS	NS
<b>Dioxins</b>												
WHO TEF	2.10E-05	4.60E-05	3.20E-05	1.40E-04	3.00E-05	1.30E-04	7.30E-05	1.70E-05	4.10E-05	7.90E-05	3.20E-04	1.40E-03
<b>Inorganics</b>												
Antimony	R	R	ND(1.1)	R	ND(1) {0.560 B}	1.2 J	ND(0.89)	0.93 J	ND(0.89)	0.77 J	ND(0.98)	6.1
Arsenic	2.2	3.7	3.1	3.6	2.5 {2.80}	8.5	5.6	2.8	3.3	3.2	3.1	14.1
Barium	25	35.8	41.1	39.8	28.7 {31.1}	109	47.8	39.6	44.2	41.5	67.2	267
Beryllium	0.2 J	0.23 J	0.16	0.33 J	0.12 {0.310 B}	ND(0.04)	0.16	0.16 J	0.17	0.19 J	0.16	0.17 J
Cadmium	0.15 J	0.75	0.18	0.51	ND(0.07) {0.0650 B}	ND(0.04)	0.62	ND(0.05)	0.23	ND(0.04)	0.39	0.21 J
Chromium	13.1	17.4	16.9	22	12.3 {12.1}	16.6	13.9	15.2	17.9	23.1	17.1	41.9
Cobalt	6.5	8.5	7.9	8.5	6.5 {8.60}	10.8	8.7	7.9	8.4	7.4	8.4	8.5
Copper	18.4 J	34.3 J	26.2	38.7 J	17.9 {19.3}	78.8	37.8	21.9	27	81.9	215	778

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 6 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T019-SL0081 1-1.5 8/11/98	T021-SL0075 0-0.5 8/11/98	T022-SL0449 1-1.5 9/8/98	T023-SL0085 1-1.5 8/11/98	T024-SL0452 0-0.5 9/9/98	T025-SL0093 0-0.5 8/12/98	T026-SL0456 0-0.5 9/9/98	T027-SL0067 0-0.5 8/12/98	T028-SL0459 2-2.5 9/9/98	T029-SL0095 2-2.5 8/12/98	T030-SL0462 1-1.5 9/9/98	T031-SL0089 0-0.5 8/12/98
Lead	20.7 J	40.1 J	27.5	43.2 J	19.2 {22.2}	109	70.8	28.1	30.9	73.7 J	190	410 J
Mercury	0.06	0.07	0.14 J	0.28	0.07 {0.0930 B}	0.24	0.28	0.1	0.13	0.09	0.29	0.35
Nickel	12.6	19.3	15.1	17.6	12 {12.8}	23.1	18.6	13.9	16.4	16	22	24.7
Selenium	ND(0.35)	ND(0.47)	ND(0.4)	ND(0.32)	ND(0.39) {ND(0.530)}	ND(0.53)	ND(0.34)	ND(0.59)	ND(0.34)	ND(0.5)	ND(0.37)	0.64
Silver	ND(0.21)	ND(0.29)	ND(0.24)	0.64	ND(0.24) {0.160 B}	ND(0.16)	0.39	0.23 J	ND(0.2)	2	ND(0.23)	0.85 J
Thallium	0.65 J	1.2 J	ND(0.69)	1.5	ND(0.67) {1.00 B}	1	ND(0.58)	0.93	ND(0.58)	ND(0.65)	ND(0.64)	0.85
Tin	1 J	1.8 J	ND(0.55)	1.9 J	ND(0.53) {ND(10.5)}	4.4	5.0 J	2.4	ND(0.46)	3.4	15.5 J	34.5
Vanadium	12.3	25.1	16.1	25.7	11.4 {11.8}	20.4	24.1	15	17.5	18.6	13.7	16
Zinc	61.5	169	79.4	103	64.8 {68.7}	265 J	148	77.3 J	89.3	112 J	212	470 J
Cyanide	ND(0.57)	ND(0.67)	ND(0.64)	ND(0.6)	ND(0.55) {ND(2.60)}	ND(0.58)	ND(0.63)	ND(0.59)	ND(0.64)	ND(0.62)	ND(0.55)	ND(0.59)
Sulfide	ND(5.6)	ND(6.8)	ND(5.7)	ND(5.9)	ND(5.2) {ND(52.5)}	ND(5.9)	ND(5.5)	ND(6.3)	5.7 J	10.9	ND(5.2)	ND(5.9)

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 6 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T032-SL0466 0-0.5 9/9/98	T033-SL0100 0-0.5 8/12/98	T034-SL0467 0-0.5 9/10/98	T035-SL0098 1-1.5 8/12/98	T036-SL0471 0-0.5 9/10/98	T037-SL0105 0-0.5 8/12/98	T038-SL0475 1-1.5 9/10/98	T039-SL0106 0-0.5 8/13/98	T040-SL0476 1-1.5 9/10/98	T041-SL0116 0-0.5 8/13/98	T042-SL0480 0-0.5 9/10/98
<b>Semivolatile Organics</b>											
1,2,4,5-Tetrachlorobenzene	ND(0.48)	0.23 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.3 J {ND(3.9)}	0.49 J	0.042 J	ND(0.33)	ND(0.38)	ND(0.37) {ND(0.37)}
1,2,4-Trichlorobenzene	0.14 J	0.27 J	ND(0.71)	0.042 J	ND(0.36) {ND(0.37)}	0.14 J {ND(3.9)}	0.19 J	0.044 J	0.017 J	ND(0.38)	0.047 J {ND(0.37)}
1,3-Dichlorobenzene	ND(0.48)	ND(0.38)	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	ND(0.68) {ND(3.9)}	ND(0.7)	ND(0.41)	ND(0.33)	ND(0.38)	ND(0.37) {ND(0.37)}
1,4-Dichlorobenzene	ND(0.48)	ND(0.38)	ND(0.71)	ND(0.38)	0.033 J {ND(0.37)}	ND(0.68) {ND(3.9)}	ND(0.7)	ND(0.41)	ND(0.33)	ND(0.38)	0.037 J {ND(0.37)}
2,4-Dimethylphenol	ND(0.48)	0.082 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	ND(0.68) {ND(3.9)}	0.15 J	ND(0.41)	ND(0.33)	ND(0.38)	0.046 J {ND(0.37)}
2-Methylnaphthalene	0.082 J	0.065 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.47 J {ND(3.9)}	2.6 J	0.44	ND(0.33)	0.035 J	0.047 J {ND(0.37)}
2-Methylphenol	ND(0.48)	0.041 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.11 J {ND(3.9)}	0.096 J	ND(0.41)	ND(0.33)	ND(0.38)	0.099 J {ND(0.37)}
4-Methylphenol	ND(0.48)	0.13 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.12 J {ND(3.9)}	0.22 J	ND(0.41)	ND(0.33)	ND(0.38)	0.08 J {0.036 J}
Acenaphthene	ND(0.48)	ND(0.38)	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.18 J {0.30 J}	0.18 J	0.2 J	0.02 J	ND(0.38)	0.044 J {0.046 J}
Acenaphthylene	0.14 J	0.44 J	ND(0.71)	ND(0.38)	ND(0.36) {0.049 J}	0.56 J {1.7 J}	0.35 J	0.54	ND(0.33)	ND(0.38)	0.051 J {0.12 J}
Acetophenone	0.12 J	0.44	ND(0.71)	0.11 J	ND(0.36) {ND(0.37)}	0.37 J {ND(3.9)}	0.18 J	0.067 J	ND(0.33)	ND(0.38)	0.055 J {ND(0.37)}
Aniline	ND(1.2)	ND(0.95)	ND(1.8)	ND(0.96)	ND(0.91) {ND(0.37)}	ND(1.7) {7.2}	ND(1.8)	ND(1)	ND(0.83)	ND(0.94)	0.18 J {1.5}
Anthracene	1.2	0.13 J	ND(0.71)	0.056 J	0.047 J {0.053 J}	0.58 J {1.0 J}	0.52 J	0.6	0.047 J	0.09 J	0.1 J {0.11 J}
Benzo(a)anthracene	4.6	0.68	0.17 J	0.3 J	0.28 J {0.20 J}	2.4 {3.0 J}	2.6	2.9	0.23 J	0.44	0.47 J {0.41}
Benzo(a)pyrene	3.5	0.82	0.17 J	0.32 J	0.3 J {0.25 J}	2.7 {3.5 J}	2.6	2.9	0.25 J	0.48	0.53 J {0.52}
Benzo(b)fluoranthene	5.9	0.85	0.16 J	0.3 J	0.26 J {0.25 J}	1.8 {3.2 J}	1.6	1.7	0.22 J	0.39	0.41 J {0.51}
Benzo(g,h,i)perylene	1.5	0.66	0.16 J	0.24 J	0.24 J {0.069 J}	1.6 {1.1 J}	1.9	1.8	0.23 J	0.37 J	0.52 J {0.17 J}
Benzo(k)fluoranthene	3.5	0.73	0.14 J	0.28 J	0.29 J {0.30 J}	2 {2.4 J}	1.9	2	0.2 J	0.42	0.42 J {0.53}
Benzyl Alcohol	ND(0.48)	0.081 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.48 J {ND(3.9)}	ND(0.7)	ND(0.41)	ND(0.33)	ND(0.38)	ND(0.37) {ND(0.37)}
bis(2-Ethylhexyl)phthalate	0.09 J	0.15 J	8.3	ND(0.38)	0.15 J {ND(0.37)}	0.29 J {ND(3.9)}	ND(0.7)	0.054 J	0.047 J	0.035 J	0.068 J {0.075 J}
Butylbenzylphthalate	0.12 J	ND(0.38)	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	3 {0.64 J}	ND(0.7)	ND(0.41)	ND(0.33)	ND(0.38)	0.033 J {ND(0.37)}
Chrysene	12	0.83	0.42 J	0.37 J	0.32 J {0.27 J}	3.4 {4.5}	3.6	3.8	0.29 J	0.55	0.61 {0.59}
Di-n-Butylphthalate	0.13 J	0.078 J	ND(0.71)	0.05 J	0.087 J {ND(0.37)}	ND(0.68) {ND(3.9)}	0.15 J	ND(0.41)	0.11 J	ND(0.38)	0.16 J {0.057 J}
Dibenzo(a,h)anthracene	0.73	0.17 J	ND(0.71)	0.057 J	0.087 J {ND(0.37)}	0.44 J {0.36 J}	0.54	0.49	0.05 J	0.12 J	0.16 J {0.057 J}
Dibenzofuran	ND(0.48)	0.071 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.11 J {ND(3.9)}	0.087 J	0.11 J	ND(0.33)	ND(0.38)	0.028 J {ND(0.37)}
Fluoranthene	3.5 J	0.97	0.39 J	0.62	0.53 {0.41}	4.6 {7.0}	5.8	6.2	0.49	1	1.2 {0.79}
Fluorene	0.15 J	ND(0.38)	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.42 J {0.69 J}	0.35 J	0.54	0.026 J	0.062 J	0.065 J {0.064 J}
Hexachlorobenzene	ND(0.48)	ND(0.38)	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	ND(0.68) {ND(3.9)}	ND(0.7)	ND(0.41)	ND(0.33)	ND(0.38)	ND(0.37) {ND(0.37)}
Indeno(1,2,3-cd)pyrene	1.6	0.62	0.14 J	0.23 J	0.25 J {0.081 J}	1.3 {1.1 J}	1.6	1.4	0.18 J	0.33 J	0.4 {0.18 J}
Isophorone	ND(0.48)	0.13 J	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	0.091 J {ND(3.9)}	ND(0.7)	ND(0.41)	ND(0.33)	ND(0.38)	ND(0.37) {ND(0.37)}
Naphthalene	ND(0.48)	0.18 J	ND(0.71)	0.079 J	0.04 J {ND(0.37)}	1.1 {ND(3.9)}	0.5 J	0.84	0.026 J	0.073 J	0.099 J {ND(0.37)}
Pentachlorobenzene	ND(0.48)	ND(0.38)	ND(0.71)	ND(0.38)	ND(0.36) {ND(0.37)}	ND(0.68) {ND(3.9)}	ND(0.7)	ND(0.41)	ND(0.33)	ND(0.38)	ND(0.37) {ND(0.37)}
Phenanthrene	0.56	0.67	0.22 J	0.4	0.3 J {0.24 J}	6.2 {6.6}	7	7.4	0.29 J	0.76	0.78 J {0.69}
Phenol	0.43 J	ND(0.38)	ND(0.71)	ND(0.38)	0.09 J {ND(0.37)}	0.79 {ND(3.9)}	0.24 J	ND(0.41)	0.052 J	ND(0.38)	0.51 J {0.26 J}
Pyrene	4	1.2	0.29 J	0.76	0.53 {0.35 J}	8.8 {7.1}	10	11	0.51	1.2	1.4 J {0.81}
<b>Organochlorine Pesticides</b>											
4,4'-DDE	ND(0.18)	8.1	ND(0.036)	ND(0.4)	ND(0.19)	ND(21)	ND(1.8)	ND(0.42)	ND(0.071)	ND(0.39)	1.1 {ND(0.19)}
4,4'-DDT	ND(0.18)	R	ND(0.036)	R	ND(0.19)	R	ND(1.8)	0.92	ND(0.071)	R	ND(0.76) {ND(0.19)}
Dieldrin	ND(0.18)	R	0.048	ND(0.4)	R	R	ND(1.8)	ND(0.42)	ND(0.071)	ND(0.39)	R {ND(0.19)}
Endosulfan II	ND(0.18)	ND(3.9)	ND(0.036)	ND(0.4)	ND(0.19)	ND(21)	ND(1.8)	ND(0.42)	ND(0.071)	ND(0.39)	ND(0.76) {0.31}
Endrin Aldehyde	ND(0.18)	ND(3.9)	0.037 J	ND(0.4)	ND(0.19)	ND(21)	ND(1.8)	ND(0.42)	ND(0.071)	ND(0.39)	0.86 {0.20}
Kepon	R	R	R	R	R	R	R	R	R	R	R {ND(3.7)}
<b>Herbicides</b>											
2,4,5-T	NS	ND(0.0055)	ND(0.0052)	NS	NS	NS	NS	NS	NS	NS	ND(0.0054) {ND(0.022)}
2,4,5-TP	NS	ND(0.0055)	ND(0.0052)	NS	NS	NS	NS	NS	NS	NS	0.0073 J {ND(0.022)}
<b>Dioxins</b>											
WHO TEF	1.10E-04	1.00E-03	1.80E-04	6.90E-05	1.00E-04	4.90E-04	1.53E-03	7.40E-05	7.00E-05	3.50E-05	2.00E-04
<b>Inorganics</b>											
Antimony	1.9 J	2.8 J	ND(0.95)	0.9 J	ND(1) {1.50}	3.7 {9.90}	25.1	0.72 J	ND(0.96)	0.63 J	ND(1) {1.40}
Arsenic	10.2	4.6	R	2.6	R {2.90}	5.6 {8.00}	7.4 J	3.4	R	2.7	R {4.40}
Barium	55.8	140	28.1	43.7	36.5 {54.3}	71.5 {75.1}	179	52.1	36.4	37.7	45.8 {53.9}
Beryllium	0.15	0.19 J	ND(0.18)	0.18 J	0.18 {0.270 B}	ND(0.04) {0.260 B}	0.63	0.17 J	0.19	0.17 J	0.27 {0.430 B}
Cadmium	0.55	0.62	ND(0.09)	ND(0.04)	ND(0.09) {0.310 B}	0.83 {0.940}	2	ND(0.04)	ND(0.09)	ND(0.04)	ND(0.09) {0.400 B}
Chromium	10.2	26.5	11.8 J	15.4	13.3 J {13.4}	30.9 {35.2}	48.6 J	21.4	12.7 J	15.1	16.7 J {19.1}
Cobalt	10.9	9.2	4.6 J	7.8	4.9 J {8.10}	9.9 {10.7}	8.9 J	8.3	4.6 J	7.7	6.5 J {10.8}
Copper	86.3	531	50.1	54.3	66.9 {112}	366 {411}	1400	80.8	79.4	34.8	59.4 {71.1}

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 6 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T032-SL0466 0-0.5 9/9/98	T033-SL0100 0-0.5 8/12/98	T034-SL0467 0-0.5 9/10/98	T035-SL0098 1-1.5 8/12/98	T036-SL0471 0-0.5 9/10/98	T037-SL0105 0-0.5 8/12/98	T038-SL0475 1-1.5 9/10/98	T039-SL0106 0-0.5 8/13/98	T040-SL0476 1-1.5 9/10/98	T041-SL0116 0-0.5 8/13/98	T042-SL0480 0-0.5 9/10/98
Lead	70.3	661 J	81.8	79 J	127 {147J}	621 {732}	2480	109 J	117	52 J	83.5 {96.1 J}
Mercury	0.2	1	0.07	0.07	0.12 {0.140}	0.16 {0.190}	0.49	0.09	0.07	0.08	0.21 {0.260}
Nickel	24.6	26.4	11	14.7	11.6 {15.0 J}	41.7 {33.7}	41.5	16.6	21.8	13.1	14.6 {19.3 J}
Selenium	0.87	ND(0.46)	ND(0.37)	ND(0.53)	ND(0.4) {0.350 B}	ND(0.55) {0.950}	ND(0.38)	ND(0.52)	ND(0.37)	0.5 J	ND(0.4) {0.730}
Silver	ND(0.19)	0.89 J	ND(0.3)	ND(0.16)	ND(0.33) {0.350 B}	0.93 J {0.900 B}	158	0.59 J	ND(0.3)	0.17	ND(0.33) {0.550 B}
Thallium	1	ND(6)	ND(0.63)	ND(0.69)	ND(0.68) {0.830 B}	0.84 {0.850 B}	ND(0.64)	0.95	ND(0.64)	0.66	ND(0.68) {1.00 B}
Tin	3.6 J	66.8	7.5	6.2	13.7 {ND(13.0)}	43.9 {74.8}	320	8.1	5.9	3.6	4.7 {ND(11.1)}
Vanadium	14.9	16.9	7.8 J	14.4	8.7 J {11.1}	20.4 {20.0}	11.2 J	16.3	8.6 J	13.6	15.4 J {21.2}
Zinc	201	839 J	129	117 J	185 {215}	792 J {657}	1340	133 J	143	89.3 J	165 {178}
Cyanide	ND(0.6)	ND(0.58)	ND(0.61)	ND(0.58)	ND(0.63) {ND(2.80)}	0.62 {ND(2.90)}	ND(0.6)	ND(0.63)	ND(0.55)	ND(0.56)	ND(0.61) {ND(2.80)}
Sulfide	5.3	5.7	5.3 J	ND(5.7)	5.4 J {ND(55.8)}	ND(6) {ND(235)}	5.2 J	6.1	ND(5.1)	ND(5.6)	5.5 J {ND(55.6)}

TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 6 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T043-SL0110 1-1.5 8/13/98	T044-SL0482 2-2.5 9/10/98	T045-SL0120 0-0.5 8/13/98	T046-SL0485 1-1.5 9/11/98	T047-SL0114 1-1.5 8/13/98
<b>Semivolatile Organics</b>					
1,2,4,5-Tetrachlorobenzene	ND(0.37)	0.21 J	ND(0.38)	ND(0.38)	ND(0.35)
1,2,4-Trichlorobenzene	0.083 J	0.082 J	ND(0.38)	0.049 J	ND(0.35)
1,3-Dichlorobenzene	ND(0.37)	0.02 J	ND(0.38)	ND(0.38)	ND(0.35)
1,4-Dichlorobenzene	ND(0.37)	0.054 J	ND(0.38)	ND(0.38)	ND(0.35)
2,4-Dimethylphenol	0.06 J	ND(0.35)	ND(0.38)	ND(0.38)	ND(0.35)
2-Methylnaphthalene	0.21 J	0.023 J	0.071 J	ND(0.38)	0.16 J
2-Methylphenol	0.071 J	0.021 J	ND(0.38)	ND(0.38)	ND(0.35)
4-Methylphenol	0.097 J	0.02 J	ND(0.38)	ND(0.38)	ND(0.35)
Acenaphthene	0.071 J	0.026 J	ND(0.38)	0.044 J	0.05 J
Acenaphthylene	0.23 J	ND(0.35)	0.085 J	ND(0.38)	0.19 J
Acetophenone	0.055 J	0.016 J	0.043 J	ND(0.38)	0.065 J
Aniline	ND(0.93)	ND(0.87)	ND(0.96)	ND(0.94)	ND(0.87)
Anthracene	0.19 J	0.053 J	0.087 J	0.094 J	0.15 J
Benzo(a)anthracene	0.89	0.24 J	0.54	0.42	0.82
Benzo(a)pyrene	1	0.28 J	0.58	0.44 J	0.86
Benzo(b)fluoranthene	0.64	0.23 J	0.46	0.36 J	0.5
Benzo(g,h,i)perylene	0.66	0.24 J	0.46	0.39	0.59
Benzo(k)fluoranthene	0.75	0.24 J	0.45	0.42	0.61
Benzyl Alcohol	ND(0.37)	ND(0.35)	ND(0.38)	ND(0.38)	ND(0.35)
bis(2-Ethylhexyl)phthalate	0.068 J	0.057 J	0.042 J	0.052 J	0.033 J
Butylbenzylphthalate	ND(0.37)	ND(0.35)	ND(0.38)	ND(0.38)	ND(0.35)
Chrysene	1.2	0.3 J	0.73	0.51	1.2
Di-n-Butylphthalate	ND(0.37)	0.19 J	ND(0.38)	0.036 J	ND(0.35)
Dibenzo(a,h)anthracene	0.18 J	0.062 J	0.13 J	0.13 J	0.16 J
Dibenzofuran	0.052 J	0.02 J	ND(0.38)	ND(0.38)	ND(0.35)
Fluoranthene	1.8	0.48 J	1.2	1.1	1.7
Fluorene	0.17 J	0.033 J	0.048 J	0.053 J	0.11 J
Hexachlorobenzene	ND(0.37)	0.036 J	ND(0.38)	ND(0.38)	ND(0.35)
Indeno(1,2,3-cd)pyrene	0.53	0.2 J	0.38 J	0.36 J	0.44
Isophorone	ND(0.37)	ND(0.35)	ND(0.38)	ND(0.38)	0.14 J
Naphthalene	0.41	0.043 J	0.18 J	0.084 J	0.33 J
Pentachlorobenzene	ND(0.37)	0.049 J	ND(0.38)	ND(0.38)	ND(0.35)
Phenanthrene	2.2	0.34 J	0.85	0.77	1.7
Phenol	ND(0.37)	ND(0.35)	ND(0.38)	ND(0.38)	ND(0.35)
Pyrene	3.2	0.6 J	1.7	1.1	3.1
<b>Organochlorine Pesticides</b>					
4,4'-DDE	ND(7.6)	ND(1.1)	ND(1.2)	ND(0.39)	R
4,4'-DDT	ND(7.6)	ND(1.1)	ND(1.2)	ND(0.39)	R
Dieldrin	ND(7.6)	ND(1.1)	ND(1.2)	ND(0.39)	R
Endosulfan II	ND(7.6)	ND(1.1)	ND(1.2)	ND(0.39)	ND(0.36)
Endrin Aldehyde	ND(7.6)	ND(1.1)	ND(1.2)	ND(0.39)	ND(0.36)
Kepone	R	R	R	R	R
<b>Herbicides</b>					
2,4,5-T	NS	NS	NS	NS	NS
2,4,5-TP	NS	NS	NS	NS	NS
<b>Dioxins</b>					
WHO TEF	1.70E-04	4.30E-05	2.80E-05	5.70E-05	2.50E-05
<b>Inorganics</b>					
Antimony	0.76 J	ND(1)	1.1 J	ND(1.1)	0.72 J
Arsenic	7.2	R	2.5	R	9.1
Barium	69.2	28.3	47.6	44.9	15.9 J
Beryllium	0.040 J	0.2	0.11 J	0.3	ND(0.04)
Cadmium	ND(0.04)	ND(0.09)	ND(0.04)	ND(0.1)	ND(0.04)
Chromium	18.4	11.8	13.6	17.1 J	14.9
Cobalt	9.8	5.0 J	8.1	6.4 J	20.4
Copper	122	31.8	28.9	34.1	35.6



TABLE 4-3

GENERAL ELECTRIC  
PITTSFIELD, MA

REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 6 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T043-SL0110 1-1.5 8/13/98	T044-SL0482 2-2.5 9/10/98	T045-SL0120 0-0.5 8/13/98	T046-SL0485 1-1.5 9/11/98	T047-SL0114 1-1.5 8/13/98
Lead	143 J	55.2	35.9 J	54.8	20.8 J
Mercury	0.19	0.09	0.11	0.16 J	ND(0.02)
Nickel	18.4	10.5	13.8	14.4	26.7
Selenium	0.83	ND(0.39)	ND(0.48)	ND(0.43)	ND(0.45)
Silver	0.65 J	ND(0.32)	0.28 J	ND(0.35)	ND(0.14)
Thallium	ND(6.6)	ND(0.66)	0.85	ND(0.74)	ND(5.7)
Tin	10	7	3.6	2.7	0.92
Vanadium	19.8	8.5 J	12.6	14.3 J	11.4
Zinc	172 J	88.5	100 J	105	80.1 J
Cyanide	ND(0.55)	ND(0.6)	ND(0.58)	ND(0.64)	ND(0.52)
Sulfide	ND(5.6)	5.2 J	ND(5.7)	ND(5.6)	ND(5.2)

TABLE 4-3

Draft

GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 7 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T001-SL0059 2-2.5 8/10/98	T003-SL0050 1-1.5 8/10/98	T005-SL0061 0-0.5 8/10/98	T007-SL0054 1-1.5 8/10/98	T009-SL0065 1-1.5 8/10/98	T011-SL0055 1-1.5 8/10/98	T013-SL0070 0-0.5 8/11/98	T015-SL0080 1-1.5 8/11/98	T017-SL0071 1-1.5 8/11/98	T018-SL0444 1-1.5 9/8/98
<b>Semivolatile Organics</b>										
1,2,4-Trichlorobenzene	0.28 J	0.13 J	ND(0.41) {ND(0.41)}	ND(0.35)	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	ND(0.35)
1,4-Dichlorobenzene	0.085 J	0.064 J	ND(0.41) {ND(0.41)}	ND(0.35)	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	0.054 J	ND(0.35)
2-Methylnaphthalene	0.063 J	0.18 J	ND(0.41) {ND(0.41)}	0.39	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	ND(0.35)
4-Methylphenol	0.05 J	0.79 J	ND(0.41) {ND(0.41)}	0.061 J	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	0.037 J {ND(0.34)}	0.045 J	ND(0.35)
Acenaphthene	ND(0.34)	0.069 J	ND(0.41) {0.069 J}	ND(0.35)	ND(0.36)	ND(0.49) {0.037 J}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	ND(0.35)
Acenaphthylene	ND(0.34)	ND(0.34)	ND(0.41) {0.078 J}	ND(0.35)	ND(0.36)	ND(0.49) {0.055 J}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	ND(0.35)
Acetophenone	ND(0.34)	0.16 J	0.042 J {ND(0.41)}	ND(0.35)	ND(0.36)	ND(0.49) {ND(0.49)}	0.049 J {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	0.044 J
Anthracene	0.061 J	0.15 J	ND(0.41) {0.062 J}	ND(0.35)	ND(0.36)	0.046 J {0.10 J}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	0.1 J	0.074 J
Benzo(a)anthracene	0.16 J	ND(0.34)	0.18 J {0.26 J}	0.06 J	ND(0.36)	0.21 J {0.30 J}	0.064 J {0.055 J}	0.092 J {0.027 J}	0.37 J	0.26 J
Benzo(a)pyrene	0.16 J	ND(0.34)	0.2 J {0.30 J}	0.063 J	ND(0.36)	0.22 J {0.34 J}	0.074 J {0.071 J}	0.081 J {0.028 J}	0.4 J	0.25 J
Benzo(b)fluoranthene	0.2 J	ND(0.34)	0.2 J {0.27 J}	0.076 J	ND(0.36)	0.23 J {0.32 J}	0.086 J {0.075 J}	0.086 J {0.029 J}	0.39 J	0.23 J
Benzo(g,h,i)perylene	0.12 J	ND(0.34)	0.15 J {0.12 J}	0.068 J	ND(0.36)	0.16 J {0.10 J}	0.063 J {ND(0.36)}	0.051 J {ND(0.34)}	0.29 J	0.13 J
Benzo(k)fluoranthene	0.16 J	ND(0.34)	0.2 J {0.25 J}	0.077 J	ND(0.36)	0.25 J {0.32 J}	0.077 J {0.062 J}	0.094 J {ND(0.34)}	0.42 J	0.22 J
Benzyl Alcohol	0.064 J	ND(0.34)	ND(0.41) {ND(0.41)}	ND(0.35)	ND(0.36)	ND(0.49) {ND(0.49)}	0.2 J {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	ND(0.35)
bis(2-Ethylhexyl)phthalate	ND(0.34)	ND(0.34)	ND(0.41) {ND(0.41)}	ND(0.35)	ND(0.36)	ND(0.49) {0.048 J}	ND(0.37) {0.075 J}	ND(0.34) {ND(0.34)}	ND(0.48)	ND(0.35)
Chrysene	0.21 J	0.032 J	0.24 J {0.33 J}	0.11 J	ND(0.36)	0.26 J {0.36 J}	0.089 J {0.073 J}	0.12 J {0.029 J}	0.46 J	0.28 J
Di-n-Butylphthalate	ND(0.34)	ND(0.34)	ND(0.41) {ND(0.41)}	ND(0.35)	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {0.036 J}	ND(0.34) {ND(0.34)}	ND(0.48)	0.05 J
Dibenzo(a,h)anthracene	0.66 J	ND(0.34)	0.041 J {ND(0.41)}	ND(0.35)	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	0.064 J
Dibenzofuran	ND(0.34)	0.23 J	ND(0.41) {ND(0.41)}	0.075 J	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	ND(0.48)	ND(0.35)
Fluoranthene	0.3 J	0.046 J	0.35 J {0.48 J}	0.14 J	ND(0.36)	0.41 J {0.70 J}	0.13 J {0.12 J}	0.26 J {0.054 J}	0.81	0.6
Fluorene	ND(0.34)	0.074 J	ND(0.41) {0.044 J}	ND(0.35)	ND(0.36)	ND(0.49) {0.043 J}	ND(0.37) {ND(0.36)}	ND(0.34) {ND(0.34)}	0.065 J	0.038 J
Indeno(1,2,3-cd)pyrene	0.11 J	ND(0.34)	0.15 J {0.13 J}	0.055 J	ND(0.36)	0.14 J {0.12 J}	0.052 J {0.033 J}	0.14 J {ND(0.34)}	0.28 J	0.16 J
Isophorone	0.54	0.2 J	ND(0.41) {ND(0.41)}	0.61	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	0.3 J {ND(0.34)}	ND(0.48)	0.21 J
Naphthalene	0.76 J	ND(0.34)	0.093 J {0.10 J}	0.28 J	ND(0.36)	ND(0.49) {ND(0.49)}	ND(0.37) {ND(0.36)}	0.034 J {ND(0.34)}	0.08 J	0.058 J
Phenanthrene	0.28 J	0.038 J	0.25 J {0.33 J}	0.22 J	ND(0.36)	0.3 J {0.43 J}	0.083 J {0.064 J}	0.29 J {0.031 J}	0.61	0.44
Pyrene	0.42 J	0.042 J	0.36 J {0.44 J}	0.14 J	ND(0.36)	0.41 J {0.44 J}	0.11 J {0.10 J}	0.21 J {0.038 J}	0.83	0.53
<b>Organochlorine Pesticides</b>										
4,4'-DDE	ND(0.18)	ND(0.1)	ND(0.042) {ND(0.0021)}	ND(0.0072)	ND(0.0037)	ND(0.01) {ND(0.0025)}	ND(0.019) {ND(0.0019)}	ND(0.007) {0.0021}	ND(0.015)	ND(0.072)
4,4'-DDT	R	R	ND(0.042) {ND(0.0021)}	ND(0.0072)	ND(0.0037)	R {ND(0.0025)}	ND(0.019) {ND(0.0019)}	0.022 {ND(0.0018)}	ND(0.015)	ND(0.072)
Dieldrin	ND(0.18)	ND(0.1)	R {ND(0.0021)}	ND(0.0072)	ND(0.0037)	R {ND(0.0025)}	ND(0.019) {ND(0.0019)}	0.011 {ND(0.0018)}	ND(0.015)	R
Endosulfan II	ND(0.18)	ND(0.1)	ND(0.042) {0.025}	ND(0.0072)	ND(0.0037)	ND(0.01) {0.0074}	ND(0.019) {0.0062}	ND(0.007) {0.0029}	ND(0.015)	ND(0.072)
Endrin Aldehyde	ND(0.18)	ND(0.1)	ND(0.042) {0.017}	ND(0.0072)	ND(0.0037)	ND(0.01) {0.0071}	ND(0.019) {0.0052}	ND(0.007) {ND(0.0018)}	ND(0.015)	ND(0.072)
Heptachlor Epoxide	ND(0.088)	ND(0.052)	0.031 J {ND(0.0021)}	ND(0.0036)	ND(0.0019)	ND(0.0051) {ND(0.0025)}	ND(0.0094) {ND(0.0019)}	ND(0.0035) {ND(0.0018)}	ND(0.0074)	ND(0.036)
Kepone	R	R	R {ND(0.041)}	R	R	R {ND(0.049)}	R {ND(0.036)}	0.029 J {ND(0.034)}	R	R
<b>Dioxins</b>										
WHO TEF	2.40E-05	3.60E-06	1.20E-05	1.00E-05	7.20E-09	1.10E-05	1.60E-05	3.30E-06	6.00E-06	1.80E-05
<b>Inorganics</b>										
Antimony	R	R	R {ND(1.20) J}	R	R	R {ND(1.50) J}	R {ND(1.10) J}	ND(0.82) {ND(1.00) J}	R	ND(0.99)
Arsenic	5.7	2.6	1.8 {2.60}	51.7	2.4	2.5 {4.10}	5.5 {10.2}	6.5 {10.2}	2	2.7
Barium	20.7	19.9	16.3 {20.9 J}	52.4	21.6	24.6 {41.7 J}	16.2 {45.9 J}	19.4 {25.0 J}	19.2 J	27.9
Beryllium	0.21	0.19 J	0.16 {0.210 B}	0.57	0.2	0.19 {0.320 B}	0.18 {0.200 B}	0.21 {0.190 B}	0.18 J	0.12
Cadmium	0.17 J	ND(0.08)	ND(0.07) {0.0890 B}	0.43	ND(0.07)	0.1 {ND(0.740)}	0.14 {0.0690 B}	0.12 {ND(0.520)}	0.13 J	ND(0.07)
Chromium	20.2	10.2	10 {12.4}	28.7	8.6	10.6 {15.6}	9.1 {14.7}	9.3 {12.6}	11.3	12.7
Cobalt	9.2	7.5	4.2 {5.60 B}	7.2	7.4	5.7 {9.20}	10.4 {16.7}	10.4 {16.7}	5.9	6.9
Copper	118	15.1	15.1 {16.2}	188	12.2	16 {19.8}	37.5 {41.6}	45.1 {39.8}	14.8	19.9
Lead	60.2	14.0	14.9 {20.6 J}	194	8.9	14.9 {25.2 J}	16.6 {22.7 J}	15.2 {17.7 J}	13.4	18.5
Mercury	0.08	0.12	0.1 {0.0990 B}	0.13	ND(0.02)	0.08 {0.0980 B}	0.07 {0.0880 B}	0.05 {0.0800 B}	0.08	0.07 J
Nickel	19.4	11.0	8.5 {9.30}	24.1	12	10 {16.0}	18.4 {23.8}	18 {23.2}	10.9	12.6
Selenium	ND(0.36)	ND(0.42)	ND(0.39) {0.380 B}	0.52	ND(0.4)	ND(0.34) {0.370 B}	ND(0.39) {0.380 B}	ND(0.31) {0.390 B}	ND(0.37)	ND(0.38)
Silver	ND(0.22)	0.39 J	ND(0.24) {0.410 B}	0.26	ND(0.24)	ND(0.21) {0.220 B}	ND(0.24) {ND(1.10)}	ND(0.19) {ND(1.00)}	ND(0.22)	ND(0.23)
Thallium	0.97	0.8	0.77 {ND(1.20)}	1.5	0.88 J	0.82 J {0.690 B}	1.2 {0.680 B}	0.94 {ND(1.00)}	ND(0.61)	ND(0.64)

TABLE 4-3

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GENERAL ELECTRIC  
PITTSFIELD, MA

## REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER

AREA 7 APPIX+3 SOIL DATA  
(ppm, dry-weight)

Appendix IX+3 Constituents	T001-SL0059 2-2.5 8/10/98	T003-SL0050 1-1.5 8/10/98	T005-SL0061 0-0.5 8/10/98	T007-SL0054 1-1.5 8/10/98	T009-SL0065 1-1.5 8/10/98	T011-SL0055 1-1.5 8/10/98	T013-SL0070 0-0.5 8/11/98	T015-SL0080 1-1.5 8/11/98	T017-SL0071 1-1.5 8/11/98	T018-SL0444 1-1.5 9/8/98
Tin	77.3	1.1 J	0.93 {ND(12.4)}	18.7	0.5 J	0.68 J {ND(14.7)}	0.75 J {ND(11.0)}	2.1 {ND(10.4)}	0.76 J	ND(0.52)
Vanadium	10.5	8.4	8.6 {10.0}	17.5	9.4	9.1 {13.0}	15 {15.9}	8.4 {10.5}	9.6	11.4
Zinc	101	47.1	48.5 {50.5}	81.8	45.1	46.7 {68.8}	68.2 {78.2}	61.7 {75.7}	55.1	62.5
Cyanide	ND(0.56)	ND(0.51)	0.67 {ND(3.10)}	ND(0.56)	ND(0.51)	ND(0.54) {ND(3.70)}	ND(0.55) {ND(2.70)}	ND(0.5) {ND(2.60)}	ND(0.72)	ND(0.58)
Sulfide	ND(5.1)	ND(5)	ND(6.1) {ND(247) J}	ND(5.1)	ND(5.4)	ND(7.2) {ND(295) J}	ND(5.5) {ND(220) J}	ND(5.1) {ND(208) J}	75.7	ND(5.2)

**GENERAL ELECTRIC  
PITTSFIELD, MA****REMOVAL ACTION WORK PLAN - UPPER 1/2 MILE OF HOUSATONIC RIVER****APPX+3 SOIL DATA  
(ppm, dry-weight)**Notes:

- 1) Samples were collected by USEPA, and were submitted for analysis of Appendix IX+3 constituents.
- 2) ND - Analyte was not detected. The number in parentheses is the associated detection limit.
- 3) [ ] - Indicates USEPA duplicate sample result.
- 4) { } - Indicates GE split sample result.
- 5) J - Indicates an estimated value less than the CLP-required quantitation limit.
- 6) B - Analyte was also detected in the associated method blank.
- 7) R - Indicates a rejected result.
- 8) NS - Not Sampled - Parameter was not requested on sample chain of custody form.
- 9) Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using the World Organization's Toxicity Equivalent Factors (TEFs) for all PCDD/PCDF congeners.
- 10) Sample results in this table are presented for those constituents detected at least once within a given area.
- 11) Shading indicates soil areas subject to removal.

TABLE 4-4

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS  
APPENDIX IX + 3 BANK SOIL DATA SUMMARY TABLE (ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Residential PRGs	Constituent Retained?	Median	Arithmetic Average	Background (Upstream Floodplain)				Constituent Retained?	MCP Method 1 GW3/S-2 or GW2/S-2 Standard (ppm)	Constituent Exceeds Method 1 Standard?
						Minimum Detected Concentration	Maximum	Median	Average			
<b>Area 1 top foot</b>												
Acetophenone	0.55	0.49	Yes	0.2325	.2828	0.05 J	0.09 J	0.07	0.07	Yes	NA	Yes
Benzo(a)anthracene	8.10	0.56	Yes	0.195	0.6789	0.16 J	1.6	0.6	0.7	Yes	1	No
Benzo(a)pyrene	7.30	0.056	Yes	0.195	0.6719	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	7.70	0.56	Yes	0.195	0.64045	0.15 J	2	0.53	0.71	Yes	1	No
Benzo(k)fluoranthene	7.20	5.60	Yes	0.195	0.64525	0.19 J	1.8	0.66	0.78	Yes	10	No
Dibenzo(a,h)anthracene	2.30	0.056	Yes	0.185	0.28465	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Indeno(1,2,3-cd)pyrene	7.20	0.56	Yes	0.195	0.6497	0.07	0.53	0.2	0.24	Yes	1	No
Lead	1120.00	400.00	Yes	15.65	106.8	25.1	90.5	55.9	55.6	Yes	600	No
<b>Area 1 sub</b>												
Benzo(a)anthracene	6.20	3.60	Yes	0.34	0.548	0.16 J	1.6	0.6	0.71	Yes	1	No
Benzo(a)pyrene	5.10	0.36	Yes	0.3	0.530	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	4.20	3.60	Yes	0.32	0.507	0.15 J	2	0.53	0.71	Yes	1	No
Dibenzo(a,h)anthracene	0.98	0.36	Yes	0.145	0.159	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno (1,2,3-cd)pyrene	3.00	0.56	Yes	0.205	0.340	0.7	0.53	0.2	0.24	Yes	1	No
Copper	30300	2784	Yes	26	846	15	144	25	31.2	Yes	NA	Yes
Lead	20400	1000	Yes	30.5	444	25.1	90.5	55.9	55.6	Yes	600	No
Sulfide	81.60	NA	Yes	3.15	17.903704	ND(20.5)	205	164.5	163	No	--	--
<b>Area 2 top foot</b>												
Benzo(a)anthracene	2.4	0.56	Yes	1.505	1.505	0.16 J	1.6	0.6	0.7	Yes	1	Yes
Benzo(a)pyrene	2.7	0.056	Yes	1.765	1.765	0.17 J	1.8	0.6	0.71	Yes	0.7	Yes
Benzo(b)fluoranthene	2.7	0.56	Yes	1.530	1.530	0.15 J	2	0.53	0.71	Yes	1	Yes
Ideno(1,2,3-cd)pyrene	2.3	0.56	Yes	1.430	1.430	0.07	0.53	0.2	0.24	Yes	1	Yes
Dibenzo(a,h)anthracene	0.61	0.056	Yes	0.558	0.558	0.07	0.22 J	0.11	0.12	Yes	0.7	No
<b>Area 2 sub</b>												
Benzo(a)pyrene	1	0.056	Yes	0.3	0.42	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Arsenic	25.6	21	Yes	5.8	11.60	2.2	17.4	4.2	5.6	Yes	30	No
<b>Area 3 top foot</b>												
Benzo(a)pyrene	0.30	0.06	Yes	0.20	0.23	0.17 J	1.8	0.6	0.71	No	---	---
Dibenzo(a,h)anthracene	0.07	0.06	Yes	0.20	0.15	0.07	0.22 J	0.11	0.12	Yes	0.7	No
<b>Area 3 sub</b>												
Benzo(a)anthracene	4	0.56	Yes	2.08	2.08	0.16 J	1.6	0.6	0.7	Yes	1	Yes
Benzo(a)pyrene	4.7	0.056	Yes	2.43	2.43	0.17 J	1.8	0.6	0.71	Yes	0.7	Yes
Benzo(b)fluoranthene	4.4	0.56	Yes	2.28	2.28	0.15 J	2.0	0.53	0.71	Yes	1	Yes
Dibenzo(a,h)anthracene	0.92	0.056	Yes	0.55	0.55	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno(1,2,3-cd)pyrene	2.5	0.56	Yes	1.31	1.31	0.07	0.53	0.2	0.24	Yes	1	Yes
Heptachlor Epoxide	0.22	0.049	Yes	0.12	0.12	NA	NA	NA	NA	Yes	0.09	Yes
Sulfide	8.1	NA	Yes	5.38	5.38	20.5	205	164.5	163	No	---	---

TABLE 4-4

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS  
APPENDIX IX + 3 BANK SOIL DATA SUMMARY TABLE (ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Residential PRGs	Constituent Retained?	Median	Arithmetic Average	Background (Upstream Floodplain)				Constituent Retained?	MCP Method 1 GW3/S-2 or GW2/S-2 Standard (ppm)	Constituent Exceeds Method 1 Standard?
						Minimum Detected Concentration	Maximum	Median	Average			
<b>Area 4 top foot</b>												
Benzo(a)pyrene	0.57	0.056	Yes	0.25	0.33	0.17 J	1.8	0.6	0.71	No	---	---
Dibenzo(a,h)anthracene	0.15	0.056	Yes	0.6	0.08	0.07	0.22 J	0.11	0.12	Yes	0.7	No
<b>Area 4 sub</b>												
Benzo(a) anthracene	1.4	0.56	Yes	0.19	0.57	0.16 J	1.6	0.6	0.7	No	---	---
Benzo(a)pyrene	1.5	0.056	Yes	0.29	0.64	0.17 J	1.8	0.6	0.71	No	---	---
Benzo(b)fluoranthrene	1.5	0.56	Yes	0.22	0.60	0.15 J	2	0.53	0.71	No	---	---
Dibenzo(a,h)anthracene	0.31	0.056	Yes	0.275	0.22	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno(1,2,3-cd)pyrene	0.95	0.56	Yes	0.23	0.42	0.07	0.53	0.2	0.24	Yes	1	No
<b>Area 5 top foot</b>												
Benzo(a)pyrene	0.3	0.056	Yes	0.26	0.23	0.17 J	1.8	0.6	0.71	No	---	---
Dibenzo(a)anthracene	0.063	0.056	Yes	0.129	0.13	0.07	0.22	0.11	0.12	No	---	---
<b>Area 6 top foot</b>												
Benzo(a)anthracene	26	0.56	Yes	0.28	2.48	0.16 J	1.6	0.6	0.7	Yes	1	Yes
Benzo(a)pyrene	22	0.056	Yes	0.3	2.16	0.17 J	1.8	0.6	0.71	Yes	0.7	Yes
Benzo(b)fluoranthrene	13	0.56	Yes	0.25	2.23	0.15 J	2	0.53	0.71	Yes	1	Yes
Benzo(k)fluoranthrene	22	5.6	Yes	0.29	2.08	0.19 J	1.8	0.66	0.78	Yes	10	No
Dibenzo(a,h)anthracene	5.2	0.056	Yes	0.195	0.55	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno(1,2,3-cd)pyrene	14	0.56	Yes	0.195	1.34	0.07	0.53	0.2	0.24	Yes	1	Yes
Sulfide	16.7	NA	Yes	5.3	7.22	20.5	205	164.5	163	No	---	---
<b>Area 6 sub</b>												
Benzo(a)anthracene	13	0.56	Yes	0.33	0.61	0.16 J	1.6	0.6	0.7	Yes	1	No
Benzo(a)pyrene	12	0.056	Yes	0.36	0.64	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthrene	7.3	0.56	Yes	0.32	0.48	0.15 J	2	0.53	0.71	Yes	1	No
Dibenzo(a,h)anthracene	2.3	0.056	Yes	0.16	0.16	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Indeno(1,2,3-cd)pyrene	6.1	0.56	Yes	0.29	0.44	0.07	0.53	0.20	0.24	Yes	1	No
WHO TEFs	1.53E-03	1.50E-03	Yes	3.34E-05	1.55E-04	NA	NA	NA	NA	NA	NA	Yes
Sulfide	11.9	NA	Yes	2.75	5.90	20.5	205	164.5	163	No	---	--
Lead	2480	400	Yes	30.9	239.02	25.1	90.5	55.9	55.6	Yes	600	No
<b>Area 7 top foot</b>												
Benzo(a)pyrene	0.300	0.056	Yes	0.161	0.16	0.17 J	1.8	0.60	0.71	No	---	---
<b>Area 7 sub</b>												
Benzo(a)pyrene	0.4	0.056	Yes	0.175	0.19	0.17 J	1.8	0.60	0.71	No	---	---
Dibenzo(a,h)anthracene	0.245	0.056	Yes	0.173	0.18	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Arsenic	51.7	21	Yes	3	9.83	2.2	17.4	4.2	5.6	Yes	30	No
Sulfide	75.7	NA	Yes	2.65	27.19	20.5	205	164.5	163	No	---	---

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS  
APPENDIX IX+3 BANK SOIL DATA SUMMARY TABLE (ppm)

**Notes:**

Step 1 - Eliminate PCB polygons, and apply backfill concentrations to calculate post-PCB removal residuals for Appendix IX + 3 constituents.

Step 2 - Compare maximum detected concentration to USEPA Region 9 residential Preliminary Remediation Goals (PRGs) (except for dioxins/furans).

USEPA Region 9 Preliminary Remediation Goals (PRGs) were downloaded from USEPA Region 9 website (<http://www.epa.gov/region09/>)

on February 10, 1999. PRG values are displayed as rounded numbers. For polycyclic aromatic hydrocarbons (PAHs) for which Region 9 PRGs

do not exist, the Region 9 PRGs for benzo(a)pyrene was used for carcinogenic constituents and the Region 9 PRG for naphthalene was used for non-carcinogenic constituents.

For endrin aldehyde, the PRG for endrin was used, and the PRG for 1,1,2,2-tetrachloroethane was used for pentachloroethane. The PRG for 3 & 4-Methylphenol was used for 4-Methylphenol.

If the maximum concentration was greater than the PRG, the constituent was retained for further evaluation. For dioxins and furans, TEQ values were

calculated using Toxicity Equivalency Factors (TEFs) published by the World Health Organization [Vandenberg et al., Environmental Health Perspectives 106(2)

(December 1998)], and compared to USEPA-approved PRGs based on USEPA PRG of 0.001 ppm for dioxin in soil in residential areas (OSWER Directive 9200.4-26, April 13, 1998).

Step 3 - Maximum detected concentration and the median concentration were compared to "regional" background (upstream surficial floodplain data)

using summary statistics per MDEP risk characterization guidance. Data found to be consistent with background were eliminated from further consideration.

Step 4 - The arithmetic average concentration of each remaining constituent for each subarea was compared to the appropriate MCP Method 1 standards. In this case,

the more conservative of GW2/S-2 or GW3/S-2 was used.

MCP Method 1 standards are from 310 CMR 40.0975.

Per discussions with the Agencies, data for kepone and dieldrin were rejected and not considered in this evaluation.

ND - Compound analyzed for but not detected.

NA - Not available.

--- MCP soils standard comparison unnecessary for constituent.

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum Detected Concentrations	USEPA Region 9 Industrial PRGs Soil (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4-Trichlorobenzene	0.043	475	No
1,4-Dichlorobenzene	0.047	3	No
2,4-Dimethylphenol	0.056	1090	No
2-Methylnaphthalene	0.19	55	No
2-Methylphenol	0.08	2725	No
4-Methylphenol	0.018	273	No
Acenaphthene	0.19	2550	No
Acenaphthylene	0.21	55	No
Acetophenone	0.042	0.49	No
Anthracene	0.86	14333	No
Benzo(a)anthracene	2.8	0.56	Yes
Benzo(a)pyrene	3.3	0.056	Yes
Benzo(b)fluoranthene	2.8	0.56	Yes
Benzo(g,h,i)perylene	2.6	55	No
Benzo(k)fluoranthene	2.7	5.6	No
Benzyl Alcohol	0.1	16351	No
bis(2-Ethylhexyl)phthalate	0.082	32	No
Chrysene	3	56	No
Di-n-Butylphthalate	0.27	5450	No
Dibenzo(a,h)anthracene	0.92	0.056	Yes
Dibenzofuran	0.26	207	No
Fluoranthene	4.3	1998	No
Fluorene	0.29	1789	No
Indeno(1,2,3-cd)pyrene	2.7	0.56	Yes
Isophorone	0.14	467	No
N-Nitrosodiphenylamine	0.08	91	No
Naphthalene	0.35	55	No
Phenanthrene	4.4	55	No
Phenol	0.52	32702	No
Pyrene	6.4	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDT	0.54	1.7	No
<b>Dioxins</b>			
WHO TEF	1.30E-04	1.00E-03	No
<b>Inorganics</b>			
Antimony	1.5	30	No
Arsenic	9.8	21	No
Barium	50.6	5155	No
Beryllium	0.25	150	No
Chromium	17.9	211	No
Cobalt	5.7	3253	No
Copper	260	2784	No
Lead	99.3	400	No
Mercury	0.49	22	No
Nickel	20	1499	No
Selenium	0.62	375	No
Silver	0.27	375	No
Tin	20.4	44970	No
Vanadium	21.9	525	No
Zinc	243	22486	No



TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4-Trichlorobenzene		475	No
1,2,4,5-Tetrachlorobenzene	0.047	16	No
1,4-Dichlorobenzene	0.082	3	No
2-Methylnaphthalene	0.06	55	No
4-Methylphenol	0.045	273	No
Acenaphthene	0.038	2550	No
Acenaphthylene	0.25	55	No
Acetophenone	0.047	0.49	No
Aniline	0.04	525	No
Anthracene	0.6	14333	No
Benzo(a)anthracene	0.053	0.56	No
Benzo(a)pyrene	0.25	0.056	Yes
Benzo(b)fluoranthene	0.3	0.56	No
Benzo(g,h,i)perylene	0.25	55	No
Benzo(k)fluoranthene	0.092	5.6	No
Benzyl Alcohol	0.25	16351	No
bis(2-Ethylhexyl)phthalate	0.052	32	No
Chrysene	0.05	56	No
Di-n-Butylphthalate	0.35	5450	No
Dibenzo(a,h)anthracene	0.037	0.056	No
Dibenzofuran	0.046	207	No
Fluoranthene	0.032	1998	No
Fluorene	0.66	1789	No
Indeno(1,2,3-cd)pyrene	0.25	0.56	No
Isophorone	0.12	467	No
Naphthalene	0.15	55	No
Pentachlorobenzene	0.079	44	No
Phenanthrene	0.4	55	No
Phenol	0.36	32702	No
Pyrene	0.2	1483	No
<b>Dioxins</b>	0.51		
WHO TEF	1.15E-04	1.00E-03	No
<b>Inorganics</b>			
Antimony	4.2	30	No
Arsenic	25.6	21	Yes
Barium	110	5155	No
Beryllium	0.49	150	No
Cadmium	0.34	37	No
Chromium	53.9	211	No
Cobalt	11.1	3253	No
Copper	107	2784	No
Lead	126	400	No
Mercury	1.2	22	No
Nickel	33.2	1499	No
Selenium	3.4	375	No
Silver	5	375	No
Thallium	2	6	No
Tin	28	44970	No
Vanadium	42	525	No
Zinc	161	22486	No

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Industrial PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,4-Dichlorobenzene	0.05	3	No
Acenaphthylene	0.05	55	No
Acetophenone	0.09	0.490	No
Anthracene	0.07	14333	No
Benzo(a)anthracene	0.30	0.560	No
Benzo(a)pyrene	0.34	0.360	No
Benzo(b)fluoranthene	0.30	0.056	Yes
Benzo(g,h,i)perylene	0.30	55	No
Benzo(k)fluoranthene	0.44	6	No
Benzyl Alcohol	0.01	16351	No
bis(2-Ethylhexyl)phthalate	0.24	32	No
Chrysene	0.40	56	No
Di-n-Butylphthalate	0.04	5450	No
Dibenzo(a,h)anthracene	0.07	0.056	Yes
Fluoranthene	0.78	1998	No
Indeno(1,2,3-cd)pyrene	0.28	0.560	No
Naphthalene	0.06	55	No
Phenanthrene	0.44	55	No
Phenol	0.20	32702	No
Pyrene	0.71	1483	No
<b>Dioxins</b>			
WHO TEF	3.70E-04	1.00E-03	No
<b>Inorganics</b>			
Antimony	0.93	30	No
Arsenic	3.10	21	No
Barium	36.50	5155	No
Beryllium	0.20	150	No
Chromium	14.20	211	No
Cobalt	7.80	3253	No
Copper	21.80	2784	No
Lead	29.50	400	No
Mercury	0.06	22	No
Nickel	13.70	1499	No
Selenium	1.30	375	No
Silver	0.23	375	No
Thallium	1.10	6	No
Tin	2.60	44970	No
Vanadium	14.00	525	No
Zinc	73.00	22486	No

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Industrial PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4-Trichlorobenzene	0.04	475	No
2,4-Dimethylphenol	0.2	1090	No
2-Methylnaphthalene	0.6	55	No
2-Methylphenol	0.28	2725	No
4-Methylphenol	0.69	273	Yes
Acenaphthene	0.095	2550	No
Acenaphthylene	0.095	55	No
Acetophenone	0.084	0.49	No
Aniline	0.68	78	No
Anthracene	0.49	14333	No
Benzo(a)anthracene	4	0.56	Yes
Benzo(a)pyrene	4.7	0.056	Yes
Benzo(b)fluoranthene	4.4	0.56	Yes
Benzo(g,h,i)perylene	2.8	55	No
Benzo(k)fluoranthene	2.8	5.6	No
Benzyl Alcohol	0.034	16351	No
Chrysene	5.2	56	No
Di-n-Butylphthalate	0.4	5450	No
Dibenzo(a,h)anthracene	0.92	0.056	Yes
Dibenzofuran	0.24	207	No
Fluoranthene	5.4	1998	No
Fluorene	0.15	1789	No
Indeno(1,2,3-cd)pyrene	2.5	0.56	Yes
Isophorone	0.73	3150	No
Naphthalene	0.55	55	No
Phenanthrene	4.3	55	No
Phenol	0.65	32702	No
Pyrene	7.2	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDE	0.74	1.7	No
Heptachlor Epoxide	0.22	0.049	Yes
<b>Herbicides</b>			
2,4,5-T	0.01	545	No
<b>Dioxins</b>			
WHO TEF	4.80E-05	1.00E-03	No
<b>Inorganics</b>			
Antimony	1.5	30	No
Arsenic	9.4	21	No
Barium	175	5155	No
Beryllium	0.35	150	No
Chromium	12	211	No
Cobalt	5.4	3253	No
Copper	297	2784	No
Lead	82.3	400	No
Mercury	0.19	22	No
Nickel	11.9	1499	No
Selenium	0.38	375	No
Thallium	0.51	6	No
Tin	16.4	44970	No
Vanadium	13.9	525	No
Zinc	320	22486	No
Sulfide	8.1	NA	Yes

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Residential PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4-Trichlorobenzene	0.22	475	No
1,2-Dichlorobenzene	0.15	370	No
1,3-Dichlorobenzene	0.23	41	No
1,4-Dichlorobenzene	0.21	3	No
2-Methylnaphthalene	0.12	55	No
Acenaphthene	0.053	2550	No
Acenaphthylene	0.067	55	No
Anthracene	0.073	14333	No
Benzo(a)anthracene	0.53	0.56	No
Benzo(a)pyrene	0.57	0.056	Yes
Benzo(b)fluoranthene	0.4	0.56	No
Benzo(g,h,i)perylene	0.44	55	No
Benzo(k)fluoranthene	0.42	5.6	No
bis(2-Ethylhexyl)phthalate	0.38	32	No
Butylbenzylphthalate	0.062	930	No
Chrysene	0.52	56	No
Di-n-Butylphthalate	0.11	5450	No
Dibenzo(a,h)anthracene	0.15	0.056	Yes
Diethylphthalate	0.072	43603	No
Fluoranthene	0.91	1998	No
Fluorene	0.046	1789	No
Indeno(1,2,3-cd)pyrene	0.39	0.56	No
Naphthalene	0.42	55	No
Pentachloroethane	0.14	0.36	No
Phenanthrene	0.5	55	No
Pyrene	0.97	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDE	1.1	1.7	No
<b>Dioxins</b>			
WHO TEF	6.00E-05	1.00E-03	No
<b>Inorganics</b>			
Antimony	0.95	30	No
Arsenic	4.9	21	No
Barium	50.4	5155	No
Beryllium	0.24	150	No
Chromium	24	211	No
Cobalt	9.9	3253	No
Copper	29.5	2784	No
Lead	51.8	400	No
Mercury	0.25	22	No
Nickel	17.5	1499	No
Silver	0.2	375	No
Thallium	0.88	6	No
Tin	3.7	44970	No
Vanadium	14.4	525	No
Zinc	90.5	22486	No

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Industrial PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4-Trichlorobenzene	0.22	475	No
1,2-Dichlorobenzene	0.15	370	No
1,3-Dichlorobenzene	0.22	41	No
1,4-Dichlorobenzene	0.16	3	No
2-Methylnaphthalene	0.056	55	No
Acenaphthene	0.076	2550	No
Acenaphthylene	0.12	55	No
Anthracene	0.24	14333	No
Benzo(a)anthracene	1.4	0.56	Yes
Benzo(a)pyrene	1.5	0.056	Yes
Benzo(b)fluoranthene	1.5	0.56	Yes
Benzo(g,h,i)perylene	0.9	55	No
Benzo(k)fluoranthene	1.2	5.6	No
bis(2-Ethylhexyl)phthalate	0.062	32	No
Chrysene	1.8	56	No
Di-n-Butylphthalate	0.07	5450	No
Dibenzo(a,h)anthracene	0.31	0.056	Yes
Dibenzofuran	0.089	207	No
Fluoranthene	5.1	1998	No
Fluorene	0.2	1789	No
Indeno(1,2,3-cd)pyrene	0.95	0.56	Yes
Isophorone	0.14	467	No
Naphthalene	0.16	55	No
Phenanthrene	2.9	55	No
Pyrene	2.9	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDE	0.78	1.7	No
4,4'-DDT	2.2	1.7	Yes
<b>Dioxins</b>			
WHO TEF	1.30E-04	1.00E-03	No
<b>Inorganics</b>			
Antimony	1.4	30	No
Arsenic	4	21	No
Barium	48.9	5155	No
Beryllium	0.34	150	No
Cadmium	0.55	37	No
Chromium	31	211	No
Cobalt	8.4	3253	No
Copper	62.2	2784	No
Lead	82.2	400	No
Mercury	0.61	22	No
Nickel	15.4	1499	No
Selenium	0.97	375	No
Silver	1.1	375	No
Thallium	0.99	6	No
Tin	6.7	44970	No
Vanadium	15.8	525	No
Zinc	124	22486	No

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Industrial PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4,5-Tetrachlorobenzene	0.06	16	No
1,2,4-Trichlorobenzene	0.41	475	No
1,4-Dichlorobenzene	0.22	3	No
2-Methylnaphthalene	0.065	55	No
2-Methylphenol	0.045	2725	No
4-Methylphenol	0.062	273	No
Acenaphthene	0.094	2550	No
Acetophenone	0.066	0.49	No
Anthracene	0.24	14333	No
Benzo(a)anthracene	0.25	0.56	No
Benzo(a)pyrene	0.3	0.056	Yes
Benzo(b)fluoranthene	0.3	0.56	No
Benzo(g,h,i)perylene	0.26	55	No
Benzo(k)fluoranthene	1	5.6	No
bis(2-Ethylhexyl)phthalate	0.17	32	No
Chrysene	1.2	56	No
Di-n-Butylphthalate	0.33	5450	No
Dibenzo(a,h)anthracene	0.063	0.056	Yes
Dibenzofuran	0.074	207	No
Fluoranthene	2.1	1998	No
Fluorene	0.12	1789	No
Indeno(1,2,3-cd)pyrene	0.21	0.56	No
Isophorone	0.15	467	No
Naphthalene	0.33	55	No
Phenanthrene	0.31	55	No
Phenol	0.39	32702	No
Pyrene	2.1	1483	No
<b>Dioxins</b>			
WHO TEF	8.30E-05	1.00E-03	No
<b>Inorganics</b>			
Antimony	0.72	30	No
Arsenic	3.5	21	No
Barium	58.4	5155	No
Beryllium	0.22	150	No
Cadmium	0.24	37	No
Chromium	16.4	211	No
Cobalt	8.4	3253	No
Copper	116	2784	No
Lead	179	400	No
Mercury	0.26	22	No
Nickel	15	1499	No
Silver	0.16	375	No
Thallium	0.63	6	No
Tin	12.9	44970	No
Vanadium	14.9	525	No
Zinc	212	22486	No

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

AREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Industrial PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
Benzo(a)pyrene	0.045	0.056	No
Benzo(b)fluoranthene	0.037	0.56	No
Benzo(g,h,i)perylene	0.042	55	No
Benzo(k)fluoranthene	0.036	5.6	No
Chrysene	0.041	56	No
Fluoranthene	0.059	1998	No
Indeno(1,2,3-cd)pyrene	0.036	0.56	No
Pyrene	0.06	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDT	0.3	1.7	No
<b>Dioxins</b>			
WHO TEF	9.59E-06	1.00E-03	No
<b>Inorganics</b>			
Antimony	0.58	30	No
Arsenic	1.7	21	No
Barium	24	5155	No
Beryllium	0.15	150	No
Chromium	9.1	211	No
Cobalt	7	3253	No
Copper	11.6	2784	No
Lead	11.5	400	No
Mercury	0.02	22	No
Nickel	11.1	1499	No
Thallium	0.69	6	No
Tin	1.4	44970	No
Vanadium	9.4	525	No
Zinc	47.5	22486	No

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

AREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Industrial PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4,5-Tetrachlorobenzene	0.23	16	No
1,2,4-Trichlorobenzene	0.62	475	No
1,4-Dichlorobenzene	0.053	3	No
2-Methylnaphthalene	0.44	55	No
2-Methylphenol	0.038	2725	No
Acenaphthene	1.4	2550	No
Acenaphthylene	1.6	55	No
Acetophenone	0.051	0.49	No
Anthracene	4.4	14333	No
Benzo(a)anthracene	26	0.56	Yes
Benzo(a)pyrene	22	0.056	Yes
Benzo(b)fluoranthene	22	0.56	Yes
Benzo(g,h,i)perylene	13	55	No
Benzo(k)fluoranthene	22	5.6	Yes
Benzyl Alcohol	0.56	16351	No
bis(2-Ethylhexyl)phthalate	1.6	32	No
Butylbenzylphthalate	0.4	930	No
Chrysene	26	56	No
Di-n-Butylphthalate	0.17	5450	No
Dibenzo(a,h)anthracene	5.2	0.056	Yes
Dibenzofuran	0.82	207	No
Fluoranthene	55	1998	No
Fluorene	1.7	1789	No
Indeno(1,2,3-cd)pyrene	7	0.56	Yes
Isophorone	0.19	467	No
Naphthalene	0.85	55	No
Phenanthrene	8	55	No
Phenol	0.24	32702	No
Pyrene	51	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDT	0.92	1.7	No
<b>Herbicides</b>			
2,4,5-T	0.0066	545	No
2,4,5-TP	0.0066	436	No
<b>Dioxins</b>			
WHO TEF	1.16E-04	1.00E-03	No
<b>Inorganics</b>			
Antimony	3.575	30	No
Arsenic	10.2	21	No
Barium	109	5155	No
Beryllium	0.298	150	No
Cadmium	0.75	37	No
Chromium	21.4	211	No
Cobalt	10.9	3253	No
Copper	89.5	2784	No
Lead	137	400	No
Mercury	0.28	22	No
Nickel	24.6	1499	No
Selenium	0.87	375	No
Silver	0.595	375	No
Thallium	1.2	6	No
Tin	13.4	44970	No
Vanadium	25.1	525	No
Zinc	265	22486	No
Sulfide	16.7	NA	Yes



TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

AREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Industrial PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4,5-Tetrachlorobenzene	0.9	16	No
1,2,4-Trichlorobenzene	0.72	475	No
1,3-Dichlorobenzene	0.043	41	No
1,4-Dichlorobenzene	0.2	3	No
2,4-Dimethylphenol	0.15	164	No
2-Methylnaphthalene	2.6	55	No
2-Methylphenol	0.096	2725	No
4-Methylphenol	0.22	273	No
Acenaphthene	2.4	2550	No
Acenaphthylene	3.2	55	No
Acetophenone	0.042	0.49	No
Anthracene	4.5	14333	No
Benzo(a)anthracene	13	0.56	Yes
Benzo(a)pyrene	12	0.056	Yes
Benzo(b)fluoranthene	7.3	0.56	Yes
Benzo(g,h,i)perylene	8.2	55	No
Benzo(k)fluoranthene	0.92	5.6	No
Benzyl Alcohol	0.16	16351	No
bis(2-Ethylhexyl)phthalate	0.096	32	No
Butylbenzylphthalate	0.051	930	No
Chrysene	16	56	No
Di-n-Butylphthalate	0.19	5450	No
Dibenzo(a,h)anthracene	2.3	0.056	Yes
Dibenzofuran	1.2	207	No
Fluoranthene	25	1998	No
Fluorene	6.4	1789	No
Hexachlorobenzene	0.036	0.28	No
Indeno(1,2,3-cd)pyrene	6.1	0.56	Yes
Isophorone	0.27	467	No
Naphthalene	2.9	55	No
Pentachlorobenzene	0.054	44	No
Phenanthrene	50	55	No
Phenol	0.24	32702	No
Pyrene	44	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDE	0.43	1.7	No
4,4'-DDT	0.91	1.7	No
Endrin Aldehyde	0.23	0.36	No
<b>Dioxins</b>			
WHO TEF	1.53E-03	1.50E-03	Yes
<b>Inorganics</b>			
Antimony	25.1	30	No
Arsenic	9.1	21	No
Barium	179	5155	No
Beryllium	0.63	150	No
Cadmium	2	37	No
Chromium	48.6	211	No
Cobalt	20.4	3253	No
Copper	1400	2784	No
Lead	2480	400	Yes
Mercury	0.49	22	No
Nickel	41.5	1499	No
Silver	158	375	No
Thallium	1.5	6	No
Tin	320	44970	No
Vanadium	25.7	525	No
Zinc	1340	22486	No
Sulfide	11.9	NA	Yes

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

AREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Residential PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
Acenaphthene	0.069	2550	No
Acenaphthylene	0.078	55	No
Acetophenone	0.049	0.49	No
Anthracene	0.062	14333	No
Benzo(a)anthracene	0.260	0.56	No
Benzo(a)pyrene	0.300	0.056	Yes
Benzo(b)fluoranthene	0.270	0.56	No
Benzo(g,h,i)perylene	0.150	55	No
Benzo(k)fluoranthene	0.250	5.6	No
Benzyl Alcohol	0.200	16351	No
bis(2-Ethylhexyl)phthalate	0.075	32	No
Chrysene	0.330	56	No
Di-n-Butylphthalate	0.036	5450	No
Dibenzo(a,h)anthracene	0.041	0.056	No
Fluoranthene	0.480	1998	No
Fluorene	0.044	1789	No
Indeno(1,2,3-cd)pyrene	0.150	0.56	No
Naphthalene	0.100	55	No
Phenanthrene	0.330	55	No
Pyrene	0.440	1483	No
<b>Organochlorine Pesticides</b>			
Endosulfan II	0.025	327	No
Endrin Aldehyde	0.017	0.36	No
Heptachlor Epoxide	0.031	0.049	No
<b>Dioxins</b>			
WHO TEF	1.50E-05	1.00E-03	No
<b>Inorganics</b>			
Arsenic	10.200	21	No
Barium	45.900	5155	No
Beryllium	0.210	150	No
Cadmium	0.140	37	No
Chromium	14.700	211	No
Cobalt	13.700	3253	No
Copper	41.600	2784	No
Lead	22.700	400	No
Mercury	0.100	22	No
Nickel	23.800	1499	No
Thallium	1.200	6	No
Tin	0.930	44970	No
Vanadium	15.900	525	No
Zinc	78.200	22486	No
Cyanide	0.670	1090	No

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTSAREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Appendix IX + 3 Constituent	Maximum	USEPA Region 9 Residential PRGs (ppm)	Constituent Retained?
<b>Semivolatile Organics</b>			
1,2,4-Trichlorobenzene	0.28	475	No
1,4-Dichlorobenzene	0.085	3	No
2-Methylnaphthalene	0.39	55	No
4-Methylphenol	0.061	273	No
Acenaphthene	0.037	2550	No
Acenaphthylene	0.055	55	No
Acetophenone	0.044	0.49	No
Anthracene	0.1	14333	No
Benzo(a)anthracene	0.37	0.56	No
Benzo(a)pyrene	0.4	0.056	Yes
Benzo(b)fluoranthene	0.39	0.56	No
Benzo(g,h,i)perylene	0.29	55	No
Benzo(k)fluoranthene	0.42	5.6	No
bis(2-Ethylhexyl)phthalate	0.048	32	No
Chrysene	0.46	56	No
Di-n-Butylphthalate	0.245	5450	No
Dibenzo(a,h)anthracene	0.245	0.056	Yes
Dibenzofuran	0.245	207	No
Fluoranthene	0.81	1998	No
Fluorene	0.065	1789	No
Indeno(1,2,3-cd)pyrene	0.28	0.56	No
Isophorone	0.61	467	No
Naphthalene	0.28	55	No
Phenanthrene	0.61	55	No
Pyrene	1	1483	No
<b>Organochlorine Pesticides</b>			
4,4'-DDE	0.0021	1.7	No
4,4'-DDT	0.37	1.7	No
Endosulfan II	0.0074	327	No
<b>Dioxins</b>			
WHO TEF	2.22E-05	1.00E-03	No
<b>Inorganics</b>			
Arsenic	51.7	21	Yes
Barium	52.4	5155	No
Beryllium	0.57	150	No
Cadmium	0.43	37	No
Chromium	28.7	211	No
Cobalt	16.7	3253	No
Copper	188	2784	No
Lead	194	400	No
Mercury	0.13	22	No
Nickel	24.1	1499	No
Selenium	0.52	375	No
Silver	0.26	375	No
Thallium	1.5	6	No
Tin	77.3	44970	No
Vanadium	17.5	525	No
Zinc	101	22486	No
Sulfide	75.7	NA	Yes

TABLE 4-5

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

AREA 1 TOP FOOT APPENDIX IX+3 COMPARISON TO PRGs  
(ppm, dry weight)

Notes:

Step 1 - Eliminate PCB polygons, and apply backfill concentrations to calculate post-PCB removal residuals for Appendix IX + 3 constituents.

Step 2 - Compare maximum detected concentration to USEPA Region 9 residential Preliminary Remediation Goals (PRGs) (except for dioxins/furans).

USEPA Region 9 Preliminary Remediation Goals (PRGs) were downloaded from USEPA Region 9 website (<http://www.epa.gov/region09/>)

on February 10, 1999. PRG values are displayed as rounded numbers. For polycyclic aromatic hydrocarbons (PAHs) for which Region 9 PRGs

do not exist, the Region 9 PRGs for benzo(a)pyrene was used for carcinogenic constituents and the Region 9 PRG for naphthalene was used for non-carcinogenic constituents.

For endrin aldehyde, the PRG for endrin was used, and the PRG for 1,1,2,2-tetrachloroethane was used for pentachloroethane. The PRG for 3 & 4-Methylphenol was used for 4-Methylphenol.

If the maximum concentration was greater than the PRG, the constituent was retained for further evaluation. For dioxins and furans, TEQ values were

calculated using Toxicity Equivalency Factors (TEFs) published by the World Health Organization [Vandenberg et al., Environmental Health Perspectives 106(2)

(December 1998)], and compared to USEPA-approved PRGs based on USEPA PRG of 0.001 ppm for dioxin in soil in residential areas (OSWER Directive 9200.4-26, April 13, 1998).

MCP Method 1 standards are from 310 CMR 40.0975.

Per discussions with the Agencies, data for kepone and dieldrin were rejected and not considered in this evaluation.

Maximum concentration calculated on a Post-PCB-removal basis.

Constituents exceeding PRG are subject to further evaluation per Performance Standard #9.

TABLE 4-6

GENERAL ELECTRIC  
PITTSFIELD, MA  
APPENDIX IX + 3 BANK SOIL PERFORMANCE STANDARD # 9 COMPLIANCE  
POST-PCB POST-APPENDIX IX+3 REMOVAL DATA

Appendix IX + 3 Constituent	Maximum (ppm)	USEPA Region 9 Residential PRGs (ppm)	Constituent Retained?	Median (ppm)	Arithmetic Average (ppm)	Background (Upstream Floodplain) (ppm)				Constituent Retained?	MCP Method 1 GW3/S-2 or GW2/S-2 Standard (ppm)	Constituent Exceeds Method 1 Standard?
						Minimum Detected	Maximum	Median	Average			
<b>Area 1 top foot</b>												
Acetophenone	0.40	0.49	No	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	8.10	0.56	Yes	0.3	0.62	0.16 J	1.6	0.6	0.7	Yes	1	No
Benzo(a)pyrene	7.20	0.056	Yes	0.32	0.59	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	7.70	0.56	Yes	0.3	0.62	0.15 J	2	0.53	0.71	Yes	1	No
Benzo(k)fluoranthene	6.40	5.60	Yes	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	2.30	0.056	Yes	0.195	0.25	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Indeno(1,2,3-cd)pyrene	7.20	0.56	Yes	0.23	0.55	0.07	0.53	0.2	0.24	Yes	1	No
Lead	1120.00	400.00	Yes	12.38	81.8	25.1	90.5	55.9	55.6	Yes	600	No
<b>Area 1 sub</b>												
Benzo(a)anthracene	0.70	0.56	Yes	0.22	0.300	0.16 J	1.6	0.6	0.71	Yes	1	No
Benzo(a)pyrene	0.72	0.056	Yes	0.24	0.320	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	0.76	0.56	Yes	0.22	0.320	0.15 J	2	0.53	0.71	Yes	1	No
Dibenzo(a,h)anthracene	0.20	0.056	Yes	0.16	0.14	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno(1,2,3-cd)pyrene	0.46	0.56	No	--	--	--	--	--	--	--	--	--
Copper	376	2784	No	--	--	--	--	--	--	--	--	--
Lead	163	400	No	--	--	--	--	--	--	--	--	--
Sulfide	81.60	NA	Yes	3.15	17.85	ND(20.5)	205	164.5	163	No	--	--
<b>Area 2 top foot</b>												
Benzo(a)anthracene	0.21	0.56	No	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.23	0.056	Yes	0.210	0.210	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	0.26	0.56	No	--	--	--	--	--	--	--	--	--
Ideno(1,2,3-cd)pyrene	0.16	0.56	No	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	0.2	0.056	Yes	0.200	0.200	0.07	0.22 J	0.11	0.12	Yes	0.7	No
<b>Area 2 sub</b>												
Benzo(a)pyrene	0.3	0.056	Yes	0.2	0.22	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Arsenic	25.6	21	Yes	3.9	10.99	2.2	17.4	4.2	5.6	Yes	30	No
<b>Area 3 top foot</b>												
Benzo(a)pyrene	0.30	0.06	Yes	0.20	0.23	0.17 J	1.8	0.6	0.71	No	---	---
Dibenzo(a,h)anthracene	0.07	0.06	Yes	0.20	0.15	0.07	0.22 J	0.11	0.12	Yes	0.7	No
<b>Area 3 sub</b>												
Benzo(a)anthracene	0.16	0.56	No	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.16	0.056	Yes	0.178	0.178	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	0.16	0.56	No	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	0.65	0.056	Yes	0.415	0.415	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno(1,2,3-cd)pyrene	0.4	0.56	No	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	0.0185	0.049	No	--	--	--	--	--	--	--	--	--
Sulfide	11.9	NA	Yes	7.28	7.28	20.5	205	164.5	No	--	---	---

TABLE 4-6

GENERAL ELECTRIC  
PITTSFIELD, MA  
APPENDIX IX + 3 BANK SOIL PERFORMANCE STANDARD # 9 COMPLIANCE  
POST-PCB POST-APPENDIX IX+3 REMOVAL DATA

Appendix IX + 3 Constituent	Maximum (ppm)	USEPA Region 9 Residential PRGs (ppm)	Constituent Retained?	Median (ppm)	Arithmetic Average (ppm)	Background (Upstream Floodplain) (ppm)				Constituent Retained?	MCP Method 1 GW3/S-2 or GW2/S-2 Standard (ppm)	Constituent Exceeds Method 1 Standard?
						Minimum Detected	Maximum	Median	Average			
<b>Area 4 top foot</b>												
Benzo(a)pyrene	0.57	0.056	Yes	0.22	0.32	0.17 J	1.8	0.6	0.71	No	---	---
Dibenzo(a,h)anthracene	0.15	0.056	Yes	0.086	0.11	0.07	0.22 J	0.11	0.12	Yes	0.7	No
<b>Area 4 sub</b>												
Benzo(a) anthracene	1.4	0.56	Yes	0.19	0.57	0.16 J	1.6	0.6	0.7	No	---	---
Benzo(a)pyrene	1.5	0.056	Yes	0.29	0.64	0.17 J	1.8	0.6	0.71	No	---	---
Benzo(b)fluoranthrene	1.5	0.56	Yes	0.22	0.60	0.15 J	2	0.53	0.71	No	---	---
Dibenzo(a,h)anthracene	0.31	0.056	Yes	0.275	0.22	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno(1,2,3-cd)pyrene	0.95	0.56	Yes	0.23	0.42	0.07	0.53	0.2	0.24	Yes	1	No
<b>Area 5 top foot</b>												
Benzo(a)pyrene	0.3	0.056	Yes	0.208	0.23	0.17 J	1.8	0.6	0.71	No	---	---
Dibenzo(a)anthracene	0.063	0.056	Yes	0.129	0.13	0.07	0.22	0.11	0.12	No	---	---
<b>Area 6 top foot</b>												
Benzo(a)anthracene	2.9	0.56	Yes	0.24	0.47	0.16 J	1.6	0.6	0.7	Yes	1	No
Benzo(a)pyrene	2.9	0.056	Yes	0.3	0.49	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	1.7	0.56	Yes	0.25	0.40	0.15 J	2	0.53	0.71	Yes	1	No
Benzo(k)fluoranthene	2	5.6	No	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	0.52	0.056	Yes	0.195	0.19	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Ideno(1,2,3-cd)pyrene	1.5	0.56	Yes	0.195	0.34	0.07	0.53	0.2	0.24	Yes	1	No
Sulfide	16.7	NA	Yes	11.9	8.26	20.5	205	164.5	163	No	---	---
<b>Area 6 sub</b>												
Benzo(a)anthracene	2	0.56	Yes	0.31	0.53	0.16 J	1.6	0.6	0.7	Yes	1	No
Benzo(a)pyrene	1.6	0.056	Yes	0.32	0.53	0.17 J	1.8	0.6	0.71	Yes	0.7	No
Benzo(b)fluoranthene	1.2	0.56	Yes	0.32	0.43	0.15 J	2	0.53	0.71	Yes	1	No
Dibenzo(a,h)anthracene	0.37	0.056	Yes	0.195	0.17	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Indeno(1,2,3-cd)pyrene	0.98	0.56	Yes	0.223	0.37	0.07	0.53	0.20	0.24	Yes	1	No
WHO TEFs	2.89E-04	1.50E-03	No	--	--	--	--	--	--	--	--	--
Sulfide	11.9	NA	Yes	2.95	5.90	20.5	205	164.5	163	No	---	--
Lead	190	400	No	--	--	--	--	--	--	--	--	--
<b>Area 7 top foot</b>												
Benzo(a)pyrene	0.300	0.056	Yes	0.161	0.16	0.17 J	1.8	0.60	0.71	No	---	---
<b>Area 7 sub</b>												
Benzo(a)pyrene	0.4	0.056	Yes	0.175	0.19	0.17 J	1.8	0.60	0.71	No	---	---
Dibenzo(a,h)anthracene	0.064	0.056	Yes	0.173	0.18	0.07	0.22 J	0.11	0.12	Yes	0.7	No
Arsenic	51.7	21	Yes	3	9.83	2.2	17.4	4.2	5.6	Yes	30	No
Sulfide	75.7	NA	Yes	2.65	27.19	20.5	205	164.5	No	--	---	---

TABLE 4-6

GENERAL ELECTRIC  
PITTSFIELD, MA  
APPENDIX IX + 3 BANK SOIL PERFORMANCE STANDARD # 9 COMPLIANCE  
POST-PCB POST-APPENDIX IX+3 REMOVAL DATA

**Notes:**

Step 1 - Eliminate PCB polygons, and apply backfill concentrations to calculate post-PCB removal residuals for Appendix IX + 3 constituents.

Step 2 - Compare maximum detected concentration to USEPA Region 9 residential Preliminary Remediation Goals (PRGs) (except for dioxins/furans).

USEPA Region 9 Preliminary Remediation Goals (PRGs) were downloaded from USEPA Region 9 website (<http://www.epa.gov/region09/>) on February 10, 1999. PRG values are displayed as rounded numbers. For polycyclic aromatic hydrocarbons (PAHs) for which Region 9 PRGs do not exist, the Region 9 PRGs for benzo(a)pyrene was used for carcinogenic constituents and the Region 9 PRG for naphthalene was used for non-carcinogenic constituents.

For endrin aldehyde, the PRG for endrin was used, and the PRG for 1,1,2,2-tetrachloroethane was used for pentachloroethane. The PRG for 3 & 4-Methylphenol was used for 4-Methylphenol.

If the maximum concentration was greater than the PRG, the constituent was retained for further evaluation. For dioxins and furans, TEQ values were calculated using Toxicity Equivalency Factors (TEFs) published by the World Health Organization [Vandenberg et al., Environmental Health Perspectives 106(2)

(December 1998)], and compared to USEPA-approved PRGs based on USEPA PRG of 0.001 ppm for dioxin in soil in residential areas (OSWER Directive 9200.4-26, April 13, 1998).

Step 3 - Maximum detected concentration and the median concentration were compared to "regional" background (upstream surficial floodplain data)

using summary statistics per MDEP risk characterization guidance. Data found to be consistent with background were eliminated from further consideration.

Step 4 - The arithmetic average concentration of each remaining constituent for each subarea was compared to the appropriate MCP Method 1 standards. In this case, the more conservative of GW2/S-2 or GW3/S-2 was used.

MCP Method 1 standards are from 310 CMR 40.0975.

Per discussions with the Agencies, data for kepone and dieldrin were rejected and not considered in this evaluation.

ND - Compound analyzed for but not detected.

NA - Not available.

--- MCP soils standard comparison unnecessary for constituent.

Maximum, median, and arithmetic average concentrations are calculated on a Post-PCB and Post-Appendix IX + 3 removal basis.

**Table 5-1**  
**General Electric Company**  
**Pittsfield, Massachusetts**  
**Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**  
**Plant Species Observed along the Housatonic River, First Half Mile**  
**November 1998**

Scientific Name	Common Name
<i>Acer saccharinum</i>	Silver maple
<i>Acer platanoides</i>	Norway maple
<i>Acer negundo</i>	Box elder
<i>Achillea millefolium</i>	Common yarrow
<i>Alliaria officinalis (petiolata)</i>	Garlic mustard
<i>Andropogon sp.</i>	Grass
<i>Asparagus officinalis</i>	Garden fern asparagus
<i>Aster sp.</i>	Aster
<i>Aster divaricatus</i>	White wood aster
<i>Berberis thunbergii</i>	Japanese barberry
<i>Betula papyrifera</i>	Paper birch
<i>Carex sp.</i>	Sedge
<i>Celastrus scandens</i>	American bittersweet
<i>Chimaphila maculata</i>	Striped or Spotted Wintergreen
<i>Cornus stolonifera</i>	Red-osier dogwood
<i>Cornus amomum</i>	Silky dogwood
<i>Elymus sp.</i>	Rye
<i>Epipactus helleborine</i>	Helleborine
<i>Equisetum arvense</i>	Field horsetail
<i>Eunonymus sp.</i>	Strawberry bush
<i>Eupatorium rugosum</i> ( <i>Ageratina altissima</i> )	White snakeroot
<i>Fagus grandifolia</i>	American beech
<i>Fragaria virginiana</i>	Virginia strawberry



Table 5-1

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper Reach of Housatonic River (First ½-Mile)**

**Plant Species Observed along the Housatonic River, First Half Mile  
November 1998  
(cont'd)**

Scientific Name	Common Name
<i>Fraxinus nigra</i>	Black ash
<i>Galium mollugo</i>	Wild madder
<i>Geum laciniatum</i>	Rough avens
<i>Ligustrum sp.</i>	Privet
<i>Lonicera morrowii</i>	Morrow's honeysuckle
<i>Matteuccia struthiopteris</i>	Ostrich fern
<i>Melilotus alba</i>	White sweetclover
<i>Mitchella repens</i>	Partridge berry
<i>Oenothera biennis</i>	Common evening primrose
<i>Picea glauca</i>	White spruce
<i>Picea rubens</i>	Red spruce
<i>Pinus strobus</i>	Eastern white pine
<i>Poa compressa</i>	Canada bluegrass
<i>Poa palustris</i>	Fowl bluegrass
<i>Populus tremuloides</i>	Quaking aspen
<i>Populus deltoides</i>	Eastern cottonwood
<i>Prunus pensylvanica</i>	Fire cherry
<i>Prunus serotina</i>	Black cherry
<i>Pyrus malus</i>	Domestic apple
<i>Quercus rubra</i>	Northern red oak
<i>Quercus velutina</i>	Black oak
<i>Rhamnus caroliniana</i>	Carolina buckthorn
<i>Rhus typhina</i>	Staghorn sumac
<i>Rosa multiflora</i>	Multiflora rose

Table 5-1

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper Reach of Housatonic River (First ½-Mile)**

**Plant Species Observed along the Housatonic River, First Half Mile  
November 1998  
(cont'd)**

Scientific Name	Common Name
<i>Rubus idaeus</i>	Red raspberry
<i>Rubus occidentalis</i>	Black raspberry
<i>Salix nigra</i>	Black willow
<i>Salix babylonica</i>	Weeping willow
<i>Solanum dulcamara</i>	Climbing nightshade
<i>Solidago sp.</i>	Goldenrod
<i>Solidago gigantea</i>	Giant goldenrod
<i>Solidago flexicaulus</i>	Zig-zag goldenrod
<i>Spiraea alba</i>	Narrow-leaf meadow-sweet
<i>Streptopus amplexifolius</i>	Clasp-leaf twisted-stalk
<i>Taxus canadensis</i>	American yew
<i>Thalictrum polygamum (pubescens)</i>	Tall meadow rue
<i>Thelypteris noveboracensis</i>	New York fern
<i>Ulmus americana</i>	American elm
<i>Viburnum dentatum</i>	Southern arrow-wood
<i>Vicia sp.</i>	Vetch
<i>Viola sp.</i>	Violet
<i>Vitis sp.</i>	Grape

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 1**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
American elm	<i>Ulmus americana</i>	7	35.0	6
Eastern cottonwood	<i>Populus deltoides</i>	6	30.0	26
Northern red oak	<i>Quercus rubra</i>	4	20.0	3.4
Norway maple	<i>Acer platanoides</i>	2	10.0	4.3
Black cherry	<i>Prunus serotina</i>	1	5.0	3.5

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	19	82.6
Norway maple	<i>Acer platanoides</i>	1	4.3
Nothern red oak	<i>Quercus rubra</i>	1	4.3
Black cherry	<i>Prunus serotina</i>	1	4.3
American elm	<i>Ulmus americana</i>	1	4.3

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	9	60.0
American bittersweet	<i>Celastrus scandens</i>	3	20.0
White spruce	<i>Picea glauca</i>	1	6.7
American yew	<i>Taxus canadensis</i>	1	6.7
Carolina buckthorn	<i>Rhamnus caroliniana</i>	1	6.7

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Bluegrass	<i>Poa sp.</i>	1	20.0
Helleborine	<i>Epipactus helleborine</i>	1	20.0
Field horsetail	<i>Equisetum arvense</i>	1	20.0
White wood aster	<i>Aster divaricatus</i>	1	20.0
Wild madder	<i>Galium mollugo</i>	1	20.0

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 2**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
Box elder	<i>Acer negundo</i>	7	70.0	9.9
Unidentified species	NA	1	10.0	4
Eastern cottonwood	<i>Populus deltoides</i>	1	10.0	31.5
Norway maple	<i>Acer platanoides</i>	1	10.0	3.5

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	37	100.0

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	35	64.8
American bittersweet	<i>Celastrus scandens</i>	9	16.7
Silky dogwood	<i>Cornus amomum</i>	3	5.6
Red-osier dogwood	<i>Cornus stolonifera</i>	3	5.6
Black cherry	<i>Prunus serotina</i>	1	1.9
Multiflora rose	<i>Rosa multiflora</i>	1	1.9
Black raspberry	<i>Rubus occidentalis</i>	1	1.9
Carolina buckthorn	<i>Rhamnus caroliniana</i>	1	1.9

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Bluegrass	<i>Poa sp.</i>	3	25.0
Sedge	<i>Carex sp.</i>	3	25.0
Giant goldenrod	<i>Solidago gigantea</i>	1	8.3
White wood aster	<i>Aster divaricatus</i>	1	8.3
Rough avens	<i>Geum laciniatum</i>	1	8.3
Wild madder	<i>Galium mollugo</i>	1	8.3
Common evening primrose	<i>Oenothera biennis</i>	1	8.3
Rye	<i>Elymus sp.</i>	1	8.3

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 3**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
Eastern cottonwood	<i>Populus deltoides</i>	7	36.8	20.6
Norway maple	<i>Acer platanoides</i>	5	26.3	7.2
Box elder	<i>Acer negundo</i>	4	21.1	3.3
American elm	<i>Ulmus americana</i>	2	10.5	7
Northern red oak	<i>Quercus rubra</i>	1	5.3	3

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
NA	NA	NA	NA

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	9	34.6
Grape	<i>Vitis sp.</i>	9	34.6
American bittersweet	<i>Celastrus scandens</i>	3	11.5
Red raspberry	<i>Rubus idaeus</i>	1	3.8
Silky dogwood	<i>Cornus amomum</i>	1	3.8
Strawberry bush	<i>Eunonymus sp.</i>	1	3.8
Black raspberry	<i>Rubus occidentalis</i>	1	3.8
Carolina buckthorn	<i>Rhamnus caroliniana</i>	1	3.8

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
White snakeroot	<i>Eupatorium rugosum</i>	9	32.1
Field horsetail	<i>Equisetum arvense</i>	9	32.1
Giant goldenrod	<i>Solidago gigantea</i>	3	10.7
Unidentified sp. w/ rosette	NA	1	3.6
Helleborine	<i>Epipactes helleborine</i>	1	3.6
Rough avens	<i>Geum laciniatum</i>	1	3.6
White wood aster	<i>Aster divaricatus</i>	1	3.6
Common evening primrose	<i>Oenothera biennis</i>	1	3.6
Grass	<i>Andropogon sp.</i>	1	3.6
Rye	<i>Elymus sp.</i>	1	3.6

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 4**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
Black willow	<i>Salix nigra</i>	5	38.5	13.6
Staghorn sumac	<i>Rhus typhina</i>	3	23.1	4
American elm	<i>Ulmus americana</i>	2	15.4	4.25
Norway maple	<i>Acer platanoides</i>	1	7.7	5
Box elder	<i>Acer negundo</i>	1	7.7	4
Paper birch	<i>Betula papyrifera</i>	1	7.7	6

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Paper birch	<i>Betula papyrifera</i>	3	42.9
Southern arrow-wood	<i>Viburnum dentatum</i>	3	42.9
Silky dogwood	<i>Cornus amomum</i>	1	14.3

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Red-osier dogwood	<i>Cornus stolonifera</i>	9	47.4
Morrow's honeysuckle	<i>Lonicera morrowii</i>	3	15.8
Black raspberry	<i>Rubus occidentalis</i>	3	15.8
Silky dogwood	<i>Cornus amomum</i>	1	5.3
Eastern white pine	<i>Pinus strobus</i>	1	5.3
Unidentified vine	NA	1	5.3
Carolina buckthorn	<i>Rhamnus caroliniana</i>	1	5.3

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Zig-zag goldenrod	<i>Solidago flexicaulus</i>	9	34.6
Giant goldenrod	<i>Solidago gigantea</i>	3	11.5
Fowl bluegrass	<i>Poa palustris</i>	3	11.5
Garden fern asparagus	<i>Asparagus officinalis</i>	3	11.5
Virginia strawberry	<i>Fragaria virginiana</i>	3	11.5
Wild madder	<i>Galium mollugo</i>	1	3.8
White wood aster	<i>Aster divaricatus</i>	1	3.8
	<i>Lonera vulgaris</i>	1	3.8
Vetch	<i>Vicea sp.</i>	1	3.8
Common yarrow	<i>Achillea millefolium</i>	1	3.8

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 5**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
Norway maple	<i>Acer platanoides</i>	2	22.2	4
Box elder	<i>Acer negundo</i>	1	11.1	14
Black cherry	<i>Prunus serotina</i>	1	11.1	13
American elm	<i>Ulmus americana</i>	5	55.6	6.6

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
NA	NA	NA	NA

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	19	39.6
Grape	<i>Vitis sp.</i>	9	18.8
American bittersweet	<i>Celastrus scandens</i>	9	18.8
Red-osier dogwood	<i>Cornus stolonifera</i>	9	18.8
Carolina buckthorn	<i>Rhamnus caroliniana</i>	1	2.1
Strawberry bush	<i>Eunonymus sp.</i>	1	2.1

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
White snakeroot	<i>Eupatorium rugosum</i>	9	42.9
Giant goldenrod	<i>Solidago gigantea</i>	3	14.3
Rough avens	<i>Geum laciniatum</i>	3	14.3
Virginia strawberry	<i>Fragaria virginiana</i>	1	4.8
Garlic mustard	<i>Alliaria officinalis</i>	1	4.8
Rye	<i>Elymus sp.</i>	1	4.8
Sedge	<i>Carex sp.</i>	1	4.8
Bluegrass	<i>Poa sp.</i>	1	4.8
Field horsetail	<i>Equisetum arvense</i>	1	4.8

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 6**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
American elm	<i>Ulmus americana</i>	8	53.3	4.6
Eastern cottonwood	<i>Populus deltoides</i>	5	33.3	22.4
Norway maple	<i>Acer platanoides</i>	2	13.3	5.8

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Strawberry bush	<i>Eunonymus sp.</i>	9	60.0
Silky dogwood	<i>Cornus amomum</i>	3	20.0
Carolina buckthorn	<i>Rhamnus caroliniana</i>	3	20.0

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
American bittersweet	<i>Celastrus scandens</i>	5	29.4
Strawberry bush	<i>Eunonymus sp.</i>	3	17.6
Silky dogwood	<i>Cornus amomum</i>	3	17.6
Striped/Spotted wintergreen	<i>Chimaphila maculata</i>	3	17.6
Black oak	<i>Quercus velutina</i>	1	5.9
Norway maple	<i>Acer platanoides</i>	1	5.9
Paper birch	<i>Betula papyrifera</i>	1	5.9

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
New York fern	<i>Thelypteris noveboracensis</i>	9	90.0
Garlic mustard	<i>Alliaria officinalis</i>	1	10.0



Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 7**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
Box elder	<i>Acer negundo</i>	10	45.5	5
Eastern cottonwood	<i>Populus deltoides</i>	9	40.9	19.8
Norway maple	<i>Acer platanoides</i>	2	9.1	5.3
American elm	<i>Ulmus americana</i>	1	4.5	5

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Strawberry bush	<i>Eunonymus sp.</i>	19	52.8
American beech	<i>Fagus grandifolia</i>	9	25.0
Norway maple	<i>Acer platanoides</i>	5	13.9
Carolina buckthorn	<i>Rhamnus caroliniana</i>	3	8.3

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
American bittersweet	<i>Celastrus scandens</i>	19	70.4
Strawberry bush	<i>Eunonymus sp.</i>	3	11.1
Morrow's honeysuckle	<i>Lonicera morrowii</i>	3	11.1
Striped/Spotted wintergreen	<i>Chimaphila maculata</i>	1	3.7
Silky dogwood	<i>Cornus amomum</i>	1	3.7

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
New York fern	<i>Thelypteris noveboracensis</i>	19	48.7
Field horsetail	<i>Equisetum arvense</i>	9	23.1
Partidge berry	<i>Mitchella repens</i>	3	7.7
Zig-zag goldenrod	<i>Solidago flexicaulus</i>	3	7.7
Bluegrass	<i>Poa sp.</i>	3	7.7
Rye	<i>Elymus sp.</i>	1	2.6
Clasp-leaf twisted-stalk	<i>Strptopus amplexifolius</i>	1	2.6

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 8**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
Box elder	<i>Acer negundo</i>	6	35.3	4.9
Eastern cottonwood	<i>Populus deltoides</i>	4	23.5	23.8
American elm	<i>Ulmus americana</i>	4	23.5	6
Black cherry	<i>Prunus serotina</i>	2	11.8	4
Quaking aspen	<i>Populus tremuloides</i>	1	5.9	11

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Carolina buckthorn	<i>Rhamnus caroliniana</i>	19	76.0
Strawberry bush	<i>Eunonymus sp.</i>	3	12.0
Morrow's honeysuckle	<i>Lonicera morrowii</i>	3	12.0

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
American bittersweet	<i>Celastrus scandens</i>	37	34.6
Black cherry	<i>Prunus serotina</i>	19	17.8
Black oak	<i>Quercus velutina</i>	9	8.4
Morrow's honeysuckle	<i>Lonicera morrowii</i>	9	8.4
Carolina buckthorn	<i>Rhamnus caroliniana</i>	9	8.4
Strawberry bush	<i>Eunonymus sp.</i>	9	8.4
Red-osier dogwood	<i>Cornus stolonifera</i>	9	8.4
Silky dogwood	<i>Cornus amomum</i>	3	2.8
American yew	<i>Taxus canadensis</i>	1	0.9
Box elder	<i>Acer negundo</i>	1	0.9
Black ash	<i>Fraxinus nigra</i>	1	0.9

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Bluegrass	<i>Poa sp.</i>	9	56.3
Field horsetail	<i>Equisetum arvense</i>	3	18.8
Sedge	<i>Carex sp.</i>	3	18.8
Giant goldenrod	<i>Solidago gigantea</i>	1	6.3

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 9**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
American elm	<i>Ulmus americana</i>	2	28.6	14
Box elder	<i>Acer negundo</i>	2	28.6	4
Norway maple	<i>Acer platanoides</i>	1	14.3	12
Domestic apple	<i>Pyrus malus</i>	1	14.3	10
Black oak	<i>Quercus velutina</i>	1	14.3	3.5

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	37	80.4
Staghorn sumac	<i>Rhus typhina</i>	9	19.6

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Grape	<i>Vitis sp.</i>	37	42.0
Morrow's honeysuckle	<i>Lonicera morrowii</i>	19	21.6
Red-osier dogwood	<i>Cornus stolonifera</i>	9	10.2
Red raspberry	<i>Rubus idaeus</i>	9	10.2
Carolina buckthorn	<i>Rhamnus caroliniana</i>	9	10.2
Black raspberry	<i>Rubus occidentalis</i>	3	3.4
Black oak	<i>Quercus velutina</i>	1	1.1
Japanese barberry	<i>Berberis thunbergii</i>	1	1.1

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Bluegrass	<i>Poa sp.</i>	3	30.0
Rough avens	<i>Geum laciniatum</i>	3	30.0
Virginia strawberry	<i>Fragaria virginiana</i>	2	20.0
Aster	<i>Aster sp.</i>	1	10.0
Giant goldenrod	<i>Solidago gigantea</i>	1	10.0

Table 5-2

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Plant Community Composition**

**Plot 10**

**Canopy Stratum**

Common Name	Scientific Name	# Stems	Rel. Stem Density (%)	Avg. DBH (in.)
Box elder	<i>Acer negundo</i>	6	60.0	9.5
American elm	<i>Ulmus americana</i>	4	57.1	6.8

**Sapling/Tall Shrub Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	19	31.7
Carolina buckthorn	<i>Rhamnus caroliniana</i>	19	31.7
Privet	<i>Ligustrum sp.</i>	19	31.7
Black cherry	<i>Prunus serotina</i>	3	5.0

**Shrub/Vine Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Morrow's honeysuckle	<i>Lonicera morrowii</i>	9	20.5
Carolina buckthorn	<i>Rhamnus caroliniana</i>	9	20.5
Strawberry bush	<i>Eunonymus sp.</i>	9	20.5
American bittersweet	<i>Celastrus scandens</i>	9	20.5
Japanese barberry	<i>Berberis thunbergii</i>	3	6.8
Grape	<i>Vitis sp.</i>	3	6.8
Northern red oak	<i>Quercus rubra</i>	1	2.3
American yew	<i>Taxus canadensis</i>	1	2.3

**Herb Stratum**

Common Name	Scientific Name	Cover Class	Rel. Dominance (%)
Field horsetail	<i>Equisetum arvense</i>	3	21.4
Garlic mustard	<i>Alliaria officinalis</i>	3	21.4
Unidentified allium-like	NA	3	21.4
Giant goldenrod	<i>Solidago gigantea</i>	1	7.1
Violet	<i>Viola sp.</i>	1	7.1
White wood aster	<i>Aster divaricatus</i>	1	7.1
Common evening primrose	<i>Oenothera biennis</i>	1	7.1
Wild madder	<i>Gallium mollugo</i>	1	7.1

**Table 7-1**

**General Electric Company  
Pittsfield, Massachusetts  
Removal Action Work Plan - Upper ½-Mile Reach of Housatonic River**

**Sheetpile River Hydraulic Analysis for the Building 68 Area**

	<b>Unrestricted, Existing Conditions</b>	<b>Restricted Conditions, With Sheetpiling</b>
<b>Average Annual Flow (105 cfs)</b>		
Average Depth of Flow (ft)	2.1	2.5
Average Velocity (fps)	1.2	2.6
Maximum Velocity (fps)	1.3	5.2
<b>1-Year Flood (440 cfs)</b>		
Average Depth of Flow (ft)	3.8	4.9
Average Velocity (fps)	2.4	5.2
Maximum Velocity (fps)	2.6	9.9
<b>2-year Flood (1,750 cfs)</b>		
Average Depth of Flow (ft)	7.5	9.4
Average Velocity (fps)	4.6	8.7
Maximum Velocity (fps)	5.0	13.6