



08-0028
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Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

July 9, 2001

Mr. Dean Tagliaferro
US Environmental Protection Agency
One Congress Street, Suite 1100
Boston, MA 02114-2023

Ms. J. Lyn Cutler
Department of Environmental Protection
436 Dwight Street
Springfield, MA 01103


**Re: Upper ½-Mile Reach of Housatonic River Removal Action
Monthly Report – June 2001**

Dear Mr. Tagliaferro and Ms. Cutler:

In accordance with the approved Remedial Action Work Plan – Upper ½-Mile Reach of Housatonic River, enclosed please find the June 2001 Monthly Report.

Please call me with any questions.

Yours truly,

 / for ATS

Andrew T. Silfer, P.E.
Senior Technical Manager

/jlc

cc: J.R. Bieke, Esq., Shea & Gardner
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1.0 Overview:

During June 2001, General Electric Company (GE) and its contractor Maxymillian Technologies Incorporated (MTI) continued work on the Upper ½ Mile Reach Removal Action. The primary work included completing sediment/bank soil removal and restoration activities in Cell H1, addressing the observed dense non-aqueous-phase liquid (DNAPL) in that cell, and conducting sediment and bank soil removal activities for Cell H2.

Weekly status meetings were held on June 6, 13, 19, and 27.

2.0 Chronological description of the tasks performed:

Refer to the diagram (Exhibit A) referenced in Section 4.0 and attached to this report for an orientation of the sheetpile cells and their respective locations. During the month of June 2001, GE Buildings 33-north, 33X and 65 were used as temporary storage facilities for Toxic Substances Control Act (TSCA) material and non-TSCA material prior to transport to the On-Plant Consolidation Areas (OPCAs). In addition, a temporary storage area was maintained in Building 65 to stockpile non-aqueous-phase liquid (NAPL)-impacted sediment excavated from Cells F3 and H1 prior to off-site disposal.

The month of June began with a high-flow event that overtopped and flooded Cell H1. Over the course of the weekend of June 2–3, heavy rain caused the river to rise substantially. On Saturday, June 2, the rising waters overtopped the sheetpiling at Cell H1 and flooded that cell. Rain continued through June 3, when the river flow exceeded 1,000 cfs. GE subsequently notified Environmental Protection Agency (EPA) and Massachusetts Department of Environmental Protection (MDEP) that this flooding could potentially constitute a force majeure event under the Consent Decree. Further, in response to this high-flow event, Cells G2 and G3 NAPL wells were monitored on June 4. NAPL was observed in Cell G2 monitoring well G2-RW1 at a thickness of 0.01 feet, but was not recoverable at this thickness. NAPL was not observed in the other Cell G2 monitoring wells or the Cell G3 monitoring wells.

During the first week of June, restoration activities for two Cell G3 bank erosion areas identified during the ½-Mile bank inspection (conducted in May) were completed. Restoration efforts for these bank areas included replacing geotextile fabric as needed, placing rip-rap at 1:1 slope areas and at the toe of the bank, placing backfill over the geotextile to the original design elevations, placing and compacting topsoil, and installing grass seed and erosion mats.

Also during the first week of June, soil and sediment removal activities in Cell H1 were initiated. Following installation of the primary pump system, the cell was dewatered by pumping the cell floodwater over the sheetpile wall and back into the river. A pre-removal survey was previously completed to record the existing cell elevations.

Following dewatering activities, removal activities were started in Cell H1. TSCA material was removed first by excavating the material from the cell and loading trucks on the north (GE) side of the river. TSCA-sediment and soil removed from the cell was transported by truck on GE-owned property to Building 33X for temporary stockpiling prior to transfer to the Building 71 OPCA. Non-TSCA material was then removed by excavating the material from the cell and loading trucks on the south side of the river. Non-TSCA material removed from the cell was transported by truck (with bills of lading) over public roads to Building 33-north for temporary stockpiling prior to transfer to the Hill 78 OPCA.

On June 6, 2001, during excavation work in the downstream part of Cell H1, DNAPL was observed in that cell in the form of a few small droplets of DNAPL located near the centerline sheetpile wall (approximately 2,000 feet downstream from the Newell Street Bridge). On the same date, GE notified the National Response Center (NRC), EPA, and MDEP of the finding of DNAPL in Cell H1 (the NRC issued report #568475). In response to this observation, an earthen berm was constructed around the area of the DNAPL, and oil-absorbent booms were placed between the DNAPL and the pump intake for the water handling system. Sediment removal activities were then resumed while observing for the potential presence of additional DNAPL.

The first week of June ended with completing the restoration activities for the remaining Cell F3 bank area. Backfill soil was placed and compacted in the final bank excavation area in Cell F3. A 6-inch layer of topsoil was then placed over the backfill, followed by placement of grass seed and erosion mats to complete the bank restoration activities. A post-restoration survey was completed for the Cell F3 bank area and was submitted and approved by EPA and US Army Corp of Engineers (ACE). The spring 2001 plantings were also completed for this area.

The second week of June began by completing installation of the Cell H2 containment walls. The cutoff sheetpile walls for Cell H2 were placed and driven to the design elevation to complete the containment cell.

Cell H1 bank soil and river sediment removal activities were also completed during this week. Following removal activities in Cell H1, a post-excavation survey was completed and submitted to EPA and ACE. After the post-excavation survey was completed, small droplets of DNAPL were observed on June 12, 2001, near the centerline sheetpile wall in the middle area of Cell H1 (approximately 1,900 feet downstream from the Newell Street Bridge). On the same date, GE verbally reported this observation to EPA, MDEP, and the NRC (the NRC issued Tracking Number 569223). In response to this observation, an earthen berm was constructed around the area of the DNAPL, and oil-absorbent booms were placed between the DNAPL and the pump intake for the water handling system. A sample of the DNAPL was collected for PCB, VOC, and SVOC analysis.

To address the second area of observed DNAPL (June 12) in Cell H1, an excavation of the affected sediment was completed. With EPA approval and oversight, that excavation involved the removal of approximately 25 cubic yards (cy) of NAPL-impacted sediment and, based on visual observation, the DNAPL was successfully removed from the river bottom. The excavated sediment was transported to the Building 65 containment area for staging prior to being characterized for disposal purposes. Following excavation activities, a survey was performed to record the Cell H1 NAPL removal areas. In addition, invasive species control activities (associated with the vegetation monitoring program) were initiated this week and included the application of herbicide to undesirable species.

To begin the third week of June, restoration activities for the Cell H1 river and bank areas were completed. The primary component of the river restoration was installing an isolation cap system. To begin, a geotextile layer was installed over the bottom of the excavation area. The isolation sand layer was placed over the geotextile fabric and compacted to a nominal depth of 12 to 24 inches. Following placement of the isolation sand layer, another layer of geotextile and a layer of geogrid were installed. The stone armor layer was then installed, which consisted of placing 12-inch rip-rap on top of the geogrid. (This armor stone layer consisted of 12-inch rip-rap instead of 9-inch rip-rap, with EPA concurrence, due to potential diverting of the river over this restored area.) This restoration process continued downstream until the entire Cell H1 riverbed was completed. To finish river restoration efforts, seven habitat enhancement boulders were placed at select locations in the Cell H1 river area (with oversight by the Massachusetts Executive Office of Environment Affairs [EOEA]).

Bank restoration activities for Cell H1 included placing rip-rap, backfilling excavation areas, and placing topsoil and grass seed. Rip-rap was placed at the toe-of-the-bank to revised design elevations and at 1:1 bank slope areas. Further up the bank above the rip-rap, the excavation areas were backfilled with soil and compacted. A 6-inch layer of topsoil was placed over the backfill, followed by placement of grass seed and erosion mats to complete the bank restoration activities. In addition, as part of the Cell H1 bank restoration activities, GE restored three additional swales identified by EPA by excavating the swales (as required), placing a geotextile liner over the bottom of the swale, and then placing 12-inch rip-rap in the swale. Excavated material was placed in the Building 33-north (non-TSCA) stockpile area. A post-restoration survey was completed for Cell H1 and was submitted and approved by EPA and ACE.

When the removal and restoration activities were substantially complete for Cell H1, work efforts shifted to Cell H2. Work tasks began in Cell H2 by dewatering the cell. Following installation of the primary pump system, the cell was dewatered by pumping the cell water over the sheetpile wall and into the river. A pre-removal survey was performed to record the existing conditions and submitted to EPA and ACE. In addition, a particulate air monitoring station and a PCB air monitoring station were relocated downstream to encompass the active

work cells.

In addition, during the third week of June, NAPL-impacted sediment staged in the Building 65 containment area was disposed of off site. Approximately 75 cy (bulk volume) of NAPL-impacted material excavated from Cells F3 and H1 were transported for disposal at an appropriate off-site facility.

During the fourth week of June, Cell H2 removal activities were initiated. TSCA material was removed first by excavating the material from the cell and loading trucks on the north (GE) side of the river. TSCA-sediment and soil removed from the cell was transported by truck on GE-owned property to Building 33X for temporary stockpiling prior to transport to the Building 71 OPCA. Non-TSCA material was then removed by excavating the material from the cell and loading trucks on the south side of the river. Non-TSCA material removed from the cell was transported by truck (with bills of lading) over public roads to Building 33-north at the beginning of the week. On June 28, non-TSCA material was transported directly to the Hill 78 OPCA for final disposition.

On June 27, during excavation activities in Cell H2, organic sheens were observed at the bottom of the excavation in that cell. A courtesy call was made to the EPA on-scene coordinator to provide notification of this observation. On June 29, 2001, as excavation work continued in Cell H2, DNAPL was observed in that cell in the form of a couple of small droplets of DNAPL located near the centerline sheetpile wall (approximately 2,100 feet downstream from the Newell Street Bridge). On the same date, GE verbally reported this observation to EPA, MDEP, and the NRC (the NRC issued Tracking Number 571325). In response to this observation, an earthen berm was constructed around the area of the DNAPL, and oil-absorbent booms were placed between the DNAPL and the pump intake for the water handling system. A sample of DNAPL was collected and submitted for laboratory analysis for PCBs. The sample analytical results will be presented in next month's report.

During June, GE also began transfer of material temporarily staged in GE-owned buildings to the OPCAs. On June 28, non-TSCA material stockpiled in Building 33-north was transported via truck to the Hill 78 OPCA for final disposition. The soil/sediment was subjected to a paint filter test prior to transfer to confirm that the material did not contain excessive liquids. The material was loaded into poly-lined trucks and covered with poly-sheets for transportation to the OPCA.

During June, GE also continued weekly monitoring of the recovery and monitoring wells associated with the Cells G2 and G3 source control barrier walls. In addition, GE completed the installation of the remaining Cells G2 and G3 NAPL monitoring wells. A third monitoring well was installed at the downstream location in Cell G2 approximately 10 feet downstream of the wing wall of the containment sheetpile wall. Two wells were installed approximately 10 feet upstream and downstream of the Waterloo containment

wall in Cell G3. Following installation, the monitoring wells were developed to begin the 4-week baseline program for the wells associated with the Cells G2 and G3 sheetpile barrier walls.

The 4-week program is anticipated to be completed in July and a report (for both Cells G2 and G3 monitoring wells) will be submitted within two weeks following completion of the program. Weekly monitoring of these wells will continue during the month of July.

Air monitoring for particulate matter was conducted on a daily basis during June, and two PCB air monitoring events were conducted. The May PCB air monitoring event was conducted on June 6-7 during excavation activities in Cell H1. The June PCB air monitoring event was conducted on June 26-27 during excavation activities in Cell H2. Water column (PCB and TSS) monitoring was also continued during June.

3.0 Sampling/test results received:

Table 1 presents the analytical results for PCBs for the baseline isolation sand layer from Cell F3.

Table 2 presents the analytical results for a DNAPL sample collected from Cell H1.

Tables 3A and 3B present the daily water column monitoring results for turbidity and the results of the water column samples collected for total suspended solids (TSS) and PCB analysis.

Table 4 presents the Cell F3 sediment characterization sample results.

Table 5 presents the TPH results for a topsoil source proposed for use at Cell H2.

Table 6 presents the ambient air PCB sample results for the PCB monitoring events conducted during June (i.e., the May and June events).

Table 7 presents the results of the June air monitoring for particulate matter.

Table 8 presents monitoring data from wells associated with the Cell G2 sheetpile containment barrier.

Table 9 presents corrected monitoring data from well HR-G2-RW-1 associated with the Cell G2 sheetpile containment barrier.

Table 10 presents monitoring data from wells associated with Cell G3 the sheetpile containment barrier.

4.0 Diagrams associated with the tasks performed:

A diagram labeled as Exhibit A shows the location of the Cells (H, I, and J) and is attached to this report for reference.

A summary chart (Exhibit B) has been developed to assist in tracking the analytical and physical testing requirements of the various sources of backfill (e.g., isolation material, soil back fill, riprap rock, etc.). Exhibit B includes the volume of backfill materials used, the analytical and physical testing frequencies required by the Work Plan, and the testing that has been performed to date.

5.0 Identification of reports received and prepared:

During the month of June, meeting summaries from the weekly project status meetings were submitted to EPA, MDEP and MEOEA. Also, for work completed in May 2001, the monthly reports required by the Consent Decree and the Upper 1/2-Mile Reach Removal Action Work Plan were both submitted.

In addition, during June, GE submitted the following documents:

- Letter regarding *Potential Force Majeure – Flooding in Cell H1* (June 22, 2001).
- Letter entitled *Temporary Storage of Excavated Upper 1/2-Mile Reach Material Prior to Transfer to On-Plant Consolidation Area* (June 25, 2001).
- Revised Spring 2001 planting schedule for restored bank areas.

6.0 Photo documentation of activities performed:

- See attached Figure 1.

7.0 Brief description of work to be performed in July 2001:

For the next reporting period, the following activities are anticipated to take place:

- Complete remaining response actions associated with the erosion of restored bank areas of the 1/2-Mile Reach, as approved by EPA.
- Complete Spring 2001 vegetation monitoring summary report for restored bank areas of the 1/2-Mile Reach.

- Complete invasive control and herbivore control activities associated with the Spring 2001 vegetative monitoring program for areas of the Upper ½-Mile Reach.
- Complete removal activities in Cell H2, including response measures associated with the observed DNAPL in Cell H2.
- Complete restoration activities for Cell H2, including installation of habitat enhancement structures.
- Submit a work plan for the removal of surface sediments that have accumulated in the Building 68 Area of the river since completion of the Building 68 Area Removal Action, and upon EPA approval, initiate the removal activities. (Note: This work is not part of the Upper ½ Mile Reach Removal Action required under the Consent Decree, but will be conducted voluntarily by GE at EPA's request.)
- Potentially initiate removal and restoration activities in Cell I1.
- Initiate relocation of the Lyman Street water line.
- Maintain temporary stockpiles of material in Buildings 33-north, 33X, and 65 (non-TSCA, TSCA, and NAPL-impacted material, respectively).
- Complete transfer of stockpiled ½ Mile Reach non-TSCA material to the Hill 78 OPCA (except as noted in GE's June 25, 2001 letter), and conduct transfer of currently stockpiled ½ Mile Reach TSCA material to the Building 71 OPCA (again, except as noted in GE's June 25, 2001 letter).
- Complete off-site disposal of DNAPL-impacted sediment removed from Cell H2 (which is temporarily stored in Building 65).
- Continue monitoring of wells associated with the Cells G2 and G3 source control sheetpile walls and complete the 4-week baseline monitoring program at these wells.
- Continue to conduct air monitoring and water column monitoring associated with response activities for the Upper ½-Mile Reach.

8.0 Attachments to this report:

- Table 1 – Cell F3 isolation layer PCB results.
- Table 2 – Analytical results for DNAPL sample from Cell H1.

- Table 3A – Water column monitoring results for turbidity, TSS, and PCBs.
- Table 3B – Water column monitoring results for PCBs and TSS.
- Table 4 – Cell F3 sediment characterization sample results.
- Table 5 - TPH results for proposed topsoil source.
- Table 6 – Ambient air PCB sample results.
- Table 7 – Results of the June air monitoring for particulate matter.
- Table 8 – Results from the monitoring of the NAPL recovery/monitoring wells associated with the Cell G2 source control barrier wall.
- Table 9 – Corrected results from the monitoring of the NAPL recovery/monitoring wells associated with the Cell G2 source control barrier wall.
- Table 10 – Results from the monitoring of the NAPL recovery/monitoring wells associated with the Cell G3 source control barrier wall.
- Exhibit A - Diagram showing the locations of cells within the Upper ½-Mile Reach.
- Exhibit B – Backfill quantity and sample summary chart.
- Figure 1 - Photo documentation.

TABLE 1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER UPPER 1/2 MILE REACH
CELL F3 - ISOLATION LAYER SAMPLING
PCB AND TOC DATA RECEIVED DURING JUNE 2001

(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth Range (Inches)	Date Collected	Aroclor 1016, 1221, 1232, 1242, 1248, 1254 & 1260	Total PCBs	TOC
CAP-MON-5	2-4	5/10/01	ND(0.0582) [ND(0.0589)]	ND(0.0582) [ND(0.0589)]	ND(100) [ND(100)]
	4-6	5/10/01	ND(0.0559)	ND(0.0559)	ND(100)
	6-8	5/10/01	ND(0.0583)	ND(0.0583)	6697

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical, Inc. for analysis of PCBs and Spectrum Analytical, Inc. for analysis of total organic carbon (TOC).
2. ND - Analyte was not detected. The number in parentheses is the associated quantitation limit.
3. Duplicate sample results are presented in brackets.

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER UPPER 1/2 MILE REACH
CELL H1 - NAPL SAMPLING
DATA RECEIVED DURING JUNE 2001

(Results are presented in parts per million, ppm)

Parameter	Sample ID:	HR-H1-OIL-1
	Date Collected:	06/12/01
Volatile Organics		
Chlorobenzene		48 J
PCBs		
Aroclor-1260		447000
Total PCBs		447000
Semivolatile Organics		
1,2,4-Trichlorobenzene		240000

Notes:

1. Sample was collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical, Inc. for analysis of PCBs, volatiles and semivolatiles.
2. J - Indicates an estimated value less than the practical quantitation limit (PQL).
3. Only detected constituents are summarized.

TABLE 3A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

JUNE 2001

UPPER 1/2 MILE REACH REMOVAL ACTION
HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION

Location	Date	Water Depth (ft)	Water Temp. (°C)	Estimated Flow ¹⁵ (cfs)	Turbidity (ntu) ¹²			Sample ID	Total PCB Concentration ¹³ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	6/1/01	2.0	9	103	15	4	8	---	---	---	---
Downstream of Lyman St. Bridge	6/1/01	3.1	9		69	4	17	---	---	---	---
Upstream of Newell St. Bridge	6/4/01	4.0+	10	632	382	12	88	---	---	---	---
Downstream of Lyman St. Bridge	6/4/01	4.0+	10		NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	6/5/01	4.0+	11	301	25	6	12	---	---	---	---
Downstream of Lyman St. Bridge	6/5/01	4.0+	11		53	9	24	---	---	---	---
Upstream of Newell St. Bridge	6/6/01	3.0	11	186	11	3	5	---	---	---	---
Downstream of Lyman St. Bridge	6/6/01	4.0	11		10	6	8	---	---	---	---
Upstream of Newell St. Bridge	6/7/01	2.5	12	131	17	2	4	HR-6-7-01-U1	0.246	NA	5.50
Downstream of Lyman St. Bridge	6/7/01	3.6	12		8	3	8	HR-6-7-01-D1	0.256	NA	8.74
Upstream of Newell St. Bridge	6/8/01	2.0	11	90	9	2	4	---	---	---	---
Downstream of Lyman St. Bridge	6/8/01	3.2	11		16	3	6	---	---	---	---
Upstream of Newell St. Bridge	6/11/01	1.6	18	68	8	2	3	---	---	---	---
Downstream of Lyman St. Bridge	6/11/01	2.7	18		5	2	6	---	---	---	---
Upstream of Newell St. Bridge	6/12/01	2.2	16	131	10	3	8	---	---	---	---
Downstream of Lyman St. Bridge	6/12/01	3.3	16		10	3	9	---	---	---	---
Upstream of Newell St. Bridge	6/13/01	1.9	18	96	2	1	2	---	---	---	---
Downstream of Lyman St. Bridge	6/13/01	3.1	18		5	1	5	---	---	---	---
Upstream of Newell St. Bridge	6/14/01	1.8	20	71	5	1	2	---	---	---	---
Downstream of Lyman St. Bridge	6/14/01	3.0	20		35	1	7	---	---	---	---
Upstream of Newell St. Bridge	6/15/01	1.6	21	56	3	1	2	---	---	---	---
Downstream of Lyman St. Bridge	6/15/01	2.8	21		12	1	---	---	---	---	---
Upstream of Newell St. Bridge	6/18/01	2.0	15	94	7	2	---	---	---	---	---
Downstream of Lyman St. Bridge	6/18/01	3.2	15		---	---	---	---	---	---	---
Upstream of Newell St. Bridge	6/19/01	1.7	18	66	---	---	---	---	---	---	---
Downstream of Lyman St. Bridge	6/19/01	2.8	18		---	---	---	---	---	---	---
Upstream of Newell St. Bridge	6/20/01	1.5	20	48	5	2	5	---	---	---	---
Downstream of Lyman St. Bridge	6/20/01	2.7	20		10	3	7	---	---	---	---
Upstream of Newell St. Bridge	6/21/01	1.5	21	47	8	2	3	HR-6-21-01-U1	NR	NR	NR
Downstream of Lyman St. Bridge	6/21/01	2.7	21		4	2	4	HR-6-21-01-D1	NR	NR	NR

TABLE 3A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

JUNE 2001

UPPER 1/2 MILE REACH REMOVAL ACTION
HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION

Location	Date	Water Depth (ft)	Water Temp. (°C)	Estimated Flow ¹⁵ (cfs)	Turbidity (ntu) ¹²			Sample ID	Total PCB Concentration ¹³ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	6/22/01	1.4	15	41	4	3	3	---	---	---	---
Downstream of Lyman St. Bridge	6/22/01	2.6	15		4	3	3	---	---	---	---
Upstream of Newell St. Bridge	6/25/2001	1.7	19	58	5	3	4	---	---	---	---
Downstream of Lyman St. Bridge	6/25/2001	2.8	19		5	3	4	---	---	---	---
Upstream of Newell St. Bridge	6/26/2001	1.6	20	46	6	2	4	---	---	---	---
Downstream of Lyman St. Bridge	6/26/2001	2.6	20		16	2	5	---	---	---	---
Upstream of Newell St. Bridge	6/27/2001	1.5	21	41	4	2	3	---	---	---	---
Downstream of Lyman St. Bridge	6/27/2001	2.6	21		5	2	3	---	---	---	---
Upstream of Newell St. Bridge	6/28/2001	1.5	21	37	5	3	4	---	---	---	---
Downstream of Lyman St. Bridge	6/28/2001	2.5	21		4	3	3	---	---	---	---
Upstream of Newell St. Bridge	6/29/2001	1.4	21	36	5	3	4	---	---	---	---
Downstream of Lyman St. Bridge	6/29/2001	2.5	21		5	3	4	---	---	---	---

Notes:

1. PCB and TSS samples were collected by Blasland, Bouck & Lee, Inc. and analyzed by Northeast Analytical, Inc.
2. Water depth taken at sampling point (i.e. middle of river).
3. ft - Feet
4. °C - degrees Celsius
5. cfs - cubic feet per second
6. ntu - nephelometric turbidity units
7. --- - No data obtained
8. ND(0.25) - Compound was analyzed for but not detected at the quantitation limit indicated in parentheses.
9. NR - Not yet reported
10. ug/l - micrograms per liter
11. mg/l - milligrams per liter
12. Turbidity Action Level = Turbidity downstream ≤ Turbidity upstream + 50 ntu
13. PCB Action Level = PCBs downstream ≤ PCBs upstream + 5 ug/l
14. NS - Not sampled due to frozen river conditions or high flow.
15. Flow data was obtained from the USGS Station 01197000 in Coltsville, MA at approximately midday. (Flow data is provisional and may be subject to revision).
16. NA - Not analyzed. Sample results unavailable due to a laboratory mistake.

TABLE 3B

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER - UPPER 1/2 MILE REACH
HOUSATONIC RIVER PCB/TSS MONITORING DURING CONSTRUCTION
DATA RECEIVED DURING JUNE 2001

(Results are presented in parts per million, ppm)

Sample ID	Location	Date Collected	Aroclor 1016, 1221, 1232, 1242, & 1248	Aroclor 1254	Aroclor 1260	Total PCBs	TSS
HR-5-24-01-U1	Upstream of Newell St. Bridge	5/24/01	ND(0.0000250)	0.0000505 AF	0.0000284	0.0000789	8.50
HR-5-24-01-D1	Downstream of Lyman St. Bridge	5/24/01	ND(0.0000250)	0.0000878 AF	0.000172	0.000260	8.07
HR-5-24-01-U1 (FILTERED)	Upstream of Newell St. Bridge	5/24/01	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	NA
HR-5-24-01-D1 (FILTERED)	Downstream of Lyman St. Bridge	5/24/01	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	NA
HR-6-7-01-U1	Upstream of Newell St. Bridge	6/7/01	ND(0.0000250)	0.000156 AF	0.0000895	0.000246	5.50
HR-6-7-01-D1	Downstream of Lyman St. Bridge	6/7/01	ND(0.0000250)	0.000100 AF	0.000156	0.000256	8.74

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of filtered and unfiltered PCBs and Total Suspended Solids (TSS).
2. ND(0.10) - Analyte was not detected. The value in parentheses is the associated detection limit.
3. NA - Not analyzed.
4. AF - Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
5. Filtered results for samples HR-6-7-01-U1 and HR-6-7-01-D1 are unavailable due to a laboratory mistake.

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER UPPER 1/2 MILE REACH
CELL F3 SEDIMENT PILE SAMPLING
TCLP SAMPLE DATA RECEIVED DURING JUNE 2001

(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	F3-TCLP-COMP-1 05/25/01
Volatile Organics		
None Detected		--
Semivolatile Organics		
None Detected		--
Inorganics		
None Detected		--

Notes:

1. Sample was collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical, Inc. for analysis of TCLP parameters excluding herbicides and pesticides.
2. Only detected constituents are summarized.
3. -- Indicates that the results for all analytes of the parameter group are non-detect.

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER UPPER 1/2 MILE REACH
LAHEY GRAVEL PIT SOIL SAMPLING
TPH SAMPLE DATA RECEIVED DURING JUNE 2001

(Results are presented in parts per million, ppm)

	Sample ID:	LAHEY-COMP-2
Parameter	Date Collected:	05/29/01
Inorganics		
Total Petroleum Hydrocarbons		ND(100)

Notes:

1. Sample was collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical, Inc. for analysis of TPH.
2. ND - Analyte was not detected. The number in parentheses is the associated quantitation limit.

TABLE 6

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER - UPPER 1/2 MILE REACH
AMBIENT AIR PCB DATA RECEIVED DURING JUNE 2001

Date	BM-1 ug/m ³	AM-3 ug/m ³	AM-3 co-located ug/m ³	AM-4 ug/m ³	AM-5 ug/m ³	AM-6 ug/m ³
06/07 - 06/08/01	0.0065	0.0091	0.0093	0.0049	0.0055	0.0065
06/26 - 06/27/01	0.0159	0.0098	0.0119	0.0187	0.0139	0.0076
Notification Level	0.05	0.05	0.05	0.05	0.05	0.05

Notes:

* Air monitoring location AM-3 was abandoned and air monitoring location AM-7 was added as a result of work progressing downstream in the river.

BM-1: Background monitoring location west of Bldg. 42.

AM-3: Air monitoring location north bank, north of Bldg. 64W. This location is also a co-located site.

AM-4: Air monitoring location south bank, at 261 Newell St. behind building formerly known as F.W. Webb.

AM-5: Air monitoring location north bank, east of Bldg. 63.

AM-6: Air monitoring location south bank, north edge of GE Newell St. parking area.

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER - UPPER 1/2 MILE REACH
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING JUNE 2001

Date	Sampler Location	Average Site Concentration (mg/m ³)	BM-1 (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
6/1/01	AM-4 (south side of river)	0.004	0.005	11:15	SW, SSW
6/4/01	AM-4 (south side of river)	0.010	0.005	10:30	NA ¹
6/5/01	AM-4 (south side of river)	0.011	0.006	9:45	NA ¹
6/6/01	AM-4 (south side of river)	0.006	0.012	10:15	NA ¹
6/7/01	AM-4 (south side of river)	0.003	0.008	10:15	NA ¹
6/8/01	AM-4 (south side of river)	0.006	0.014	9:30	NA ¹
6/11/01	AM-4 (south side of river)	0.015	0.014	4:45 ²	NA ¹
6/12/01	AM-4 (south side of river)	0.007	0.010	11:15	NA ¹
6/13/01	AM-4 (south side of river)	0.011	0.012	10:30	SW, W
6/14/01	AM-4 (south side of river)	0.061	0.062	10:45	S
6/15/01	AM-4 (south side of river)	0.061	0.030	10:45	SW
6/18/01	AM-4 (south side of river)	0.009	0.013	10:00	W
6/19/01	AM-4 (south side of river)	0.009	0.011	10:00	SW
6/20/01	AM-4 (south side of river)	0.024	0.032	9:00	W, WNW
6/21/01	AM-4 (south side of river)	0.012	0.014	10:15	E, ENE
6/22/01 ³	AM-6 (south side of river)	0.017	0.021	10:15	S, ESE
6/25/01	AM-6 (south side of river)	0.010	0.015	9:45	NNW
6/26/01	AM-6 (south side of river)	0.016	0.021	10:00	WNW
6/27/01	AM-6 (south side of river)	0.038	0.027	13:00	WNW
6/28/01	AM-6 (south side of river)	0.066	0.042	9:30	NW
6/29/01	AM-6 (south side of river)	0.067	0.018	9:30	SSW, SW
Notification Level		0.120			

Notes

BM-1: Background monitoring location west of Bldg. 42.

AM-4: Air monitoring location behind the former F.W. Webb building on Newell Street.

AM-6: Air monitoring location in the GE parking lot located off of Newell Street.

¹ Wind data is not available from GE's on-site weather station from Saturday, June 2, 2001 through Tuesday, June 12, 2001.

It appears that the station was hit by lightning on June 2, 2001.

² Sampling period was shortened due to precipitation/threat of precipitation.

³ On Friday, June 22, 2001 the on-site dust monitor was relocated from site AM-4 to site AM-6. The monitor was relocated as a result of the river work progressing downstream.

TABLE 8
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
UPPER 1/2-MILE REACH OF HOUSATONIC RIVER
CELL G-2 MONITORING RESULTS - JUNE 2001

Well I.D.	Date	Measuring Point Elevation (Feet AMSL)	Depth to Water (Feet below MP) ⁴	Depth to NAPL (Feet below MP)	Total Depth (Feet below MP)	NAPL Thickness (Feet)	Groundwater Elevation (Feet AMSL) ⁴	NAPL Removal (Liters)
ES2-2A	6/4/01	979.54	3.56	---	17.38	0.00	975.98	0.00
ES2-2A	6/6/01	979.54	5.30	---	N/M	0.00	974.24	0.00
ES2-2A	6/22/01	979.54	6.92	---	17.12	0.00	972.62	0.00
ES2-7	6/4/01	980.03	4.55	---	42.69	0.00	975.48	0.00
ES2-7	6/6/01	980.03	5.30	---	N/M	0.00	974.73	0.00
ES2-7	6/22/01	980.03	7.02	---	42.68	0.00	973.01	0.00
HR-G2-MW-1	6/4/01	982.60	7.06	---	18.28	0.00	975.54	0.00
HR-G2-MW-1	6/11/01	982.60	10.49	---	18.28	0.00	972.11	0.00
HR-G2-MW-1	6/18/01	982.60	10.31	---	18.29	0.00	972.29	0.00
HR-G2-MW-1	6/25/01	982.60	10.74	---	18.27	0.00	971.86	0.00
HR-G2-MW-2	6/4/01	981.39	5.84	---	17.68	0.00	975.55	0.00
HR-G2-MW-2	6/11/01	981.39	8.24	---	17.68	0.00	973.15	0.00
HR-G2-MW-2	6/18/01	981.39	7.83	---	17.68	0.00	973.56	0.00
HR-G2-MW-2	6/25/01	981.39	8.76	---	17.68	0.00	972.63	0.00
HR-G2-MW-3	6/26/01	987.14	14.87	---	22.02	0.00	972.27	0.00
HR-G2-RW-1	6/4/01	976.88	1.98	1.97	18.71	0.01	975.41	0.00
HR-G2-RW-1	6/11/01	976.88	6.30	---	18.70	0.00	972.17	0.00
HR-G2-RW-1	6/18/01	976.88	5.94	---	18.73	0.00	972.44	0.00
HR-G2-RW-1	6/25/01	976.88	6.55	---	18.71	0.00	971.99	0.00

Notes:

1. NAPL = Non-Aqueous Phase Liquid.
2. MP = Measuring Point
3. Feet AMSL = Feet Above Mean Sea Level
4. Well HR-G2-RW-1 is constructed at an angle of 41.67 degrees from vertical. Depth to water data reflect measurements collected along the angled well casing. Groundwater elevations are corrected to account for the angle of the well casing.
5. Water table elevations for wells containing LNAPL were computed as follows:
 Water Table Elevation = Measuring Point Elevation - Depth to Water + (LNAPL Thickness x Specific Density of LNAPL)
 Specific Density of LNAPL estimated at 0.93.

TABLE 9

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

UPPER 1/2-MILE REACH OF HOUSATONIC RIVER

CELL G-2 MONITORING RESULTS - CORRECTED DATA FOR WELL HR-G2-RW-1
(January through June 2001)

Well I.D.	Date	Measuring Point Elevation (Feet AMSL)	Depth to Water (Feet below MP) ⁴	Depth to NAPL (Feet below MP)	Total Depth (Feet below MP)	NAPL Thickness (Feet)	Groundwater Elevation (Feet AMSL) ⁴	NAPL Removal (Liters)
HR-G2-RW-1	1/26/01	976.88	14.90	---	18.85	0.00	965.75	0.00
HR-G2-RW-1	1/29/01	976.88	14.83	---	18.74	0.00	965.80	0.00
HR-G2-RW-1	2/5/01	976.88	7.09	---	18.71	0.00	971.58	0.00
HR-G2-RW-1	2/12/01	976.88	6.29	---	18.70	0.00	972.18	0.00
HR-G2-RW-1	2/19/01	976.88	6.79	---	18.73	0.00	971.81	0.00
HR-G2-RW-1	2/26/01	976.88	6.80	---	18.73	0.00	971.80	0.00
HR-G2-RW-1	3/5/01	976.88	See Note 5	---	---	---	---	0.00
HR-G2-RW-1	3/12/01	976.88	6.88	---	18.73	0.00	971.74	0.00
HR-G2-RW-1	3/19/01	976.88	5.74	5.73	18.73	0.01	972.60	0.00
HR-G2-RW-1	3/26/01	976.88	4.61	4.60	18.73	0.01	973.44	0.00
HR-G2-RW-1	4/2/01	976.88	5.39	5.38	18.74	0.01	972.86	0.00
HR-G2-RW-1	4/9/01	976.88	1.85	---	18.75	0.00	975.50	0.00
HR-G2-RW-1	4/11/01	976.88	See Note 6	---	---	---	>976.88	0.00
HR-G2-RW-1	4/16/01	976.88	See Note 6	---	---	---	>976.88	0.00
HR-G2-RW-1	4/23/01	976.88	See Note 6	---	---	---	>976.88	0.00
HR-G2-RW-1	4/30/01	976.88	4.81	4.80	18.72	0.01	973.29	0.00

TABLE 9

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

UPPER 1/2-MILE REACH OF HOUSATONIC RIVER

CELL G-2 MONITORING RESULTS - CORRECTED DATA FOR WELL HR-G2-RW-1
(January through June 2001)

Well I.D.	Date	Measuring Point Elevation (Feet AMSL)	Depth to Water (Feet below MP) ⁴	Depth to NAPL (Feet below MP)	Total Depth (Feet below MP)	NAPL Thickness (Feet)	Groundwater Elevation (Feet AMSL) ⁴	NAPL Removal (Liters)
HR-G2-RW-1	5/7/01	976.88	6.01	---	18.68	0.00	972.39	0.00
HR-G2-RW-1	5/14/01	976.88	6.36	---	18.69	0.00	972.13	0.00
HR-G2-RW-1	5/21/01	976.88	6.50	---	18.74	0.00	972.02	0.00
HR-G2-RW-1	5/29/01	976.88	5.06	---	18.73	0.00	973.10	0.00
HR-G2-RW-1	6/4/01	976.88	1.98	1.97	18.71	0.01	975.41	0.00
HR-G2-RW-1	6/11/01	976.88	6.30	---	18.70	0.00	972.17	0.00
HR-G2-RW-1	6/18/01	976.88	5.94	---	18.73	0.00	972.44	0.00
HR-G2-RW-1	6/25/01	976.88	6.55	---	18.71	0.00	971.99	0.00

Notes:

1. NAPL = Non-Aqueous Phase Liquid.
2. MP = Measuring Point
3. Feet AMSL = Feet Above Mean Sea Level
4. Well HR-G2-RW-1 is constructed at an angle of 41.67 degrees from vertical. Depth to water data reflect measurements collected along the angled well casing. Groundwater elevations are corrected to account for the angle of the well casing.
5. Well HR-G2-RW-1 was frozen at a depth of 7.13 feet on March 5, 2001; therefore measurements could not be collected.
6. The top of well HR-G2-RW-1 was submerged; therefore measurements could not be collected.
7. Water table elevations for wells containing LNAPL were computed as follows:

$$\text{Water Table Elevation} = \text{Measuring Point Elevation} - \text{Depth to Water} + (\text{LNAPL Thickness} \times \text{Specific Density of LNAPL})$$
 Specific Density of LNAPL estimated at 0.93.

TABLE 10

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

UPPER 1/2-MILE REACH OF HOUSATONIC RIVER

CELL G-3 MONITORING RESULTS - JUNE 2001

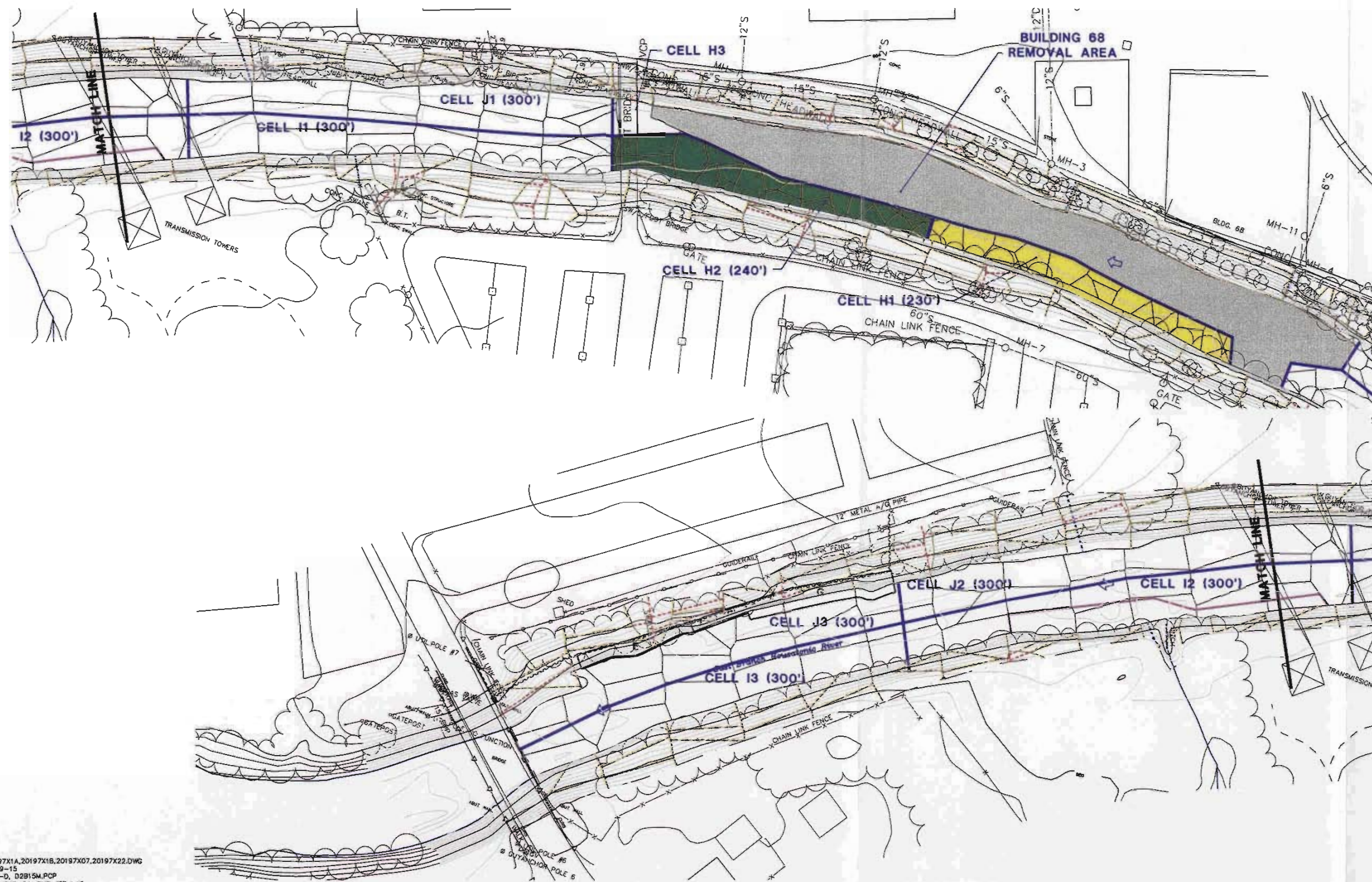
Well I.D.	Date	Measuring Point Elevation (Feet AMSL)	Depth to Water (Feet below MP)	Depth to NAPL (Feet below MP)	Total Depth (Feet below MP)	NAPL Thickness (Feet)	Groundwater Elevation (Feet AMSL)	NAPL Removal (Liters)
HR-G3-MW-1	6/26/01	987.18	15.06	---	17.75	0.00	972.12	0.00
HR-G3-MW-2	6/26/01	987.88	15.58	---	17.73	0.00	972.30	0.00
HR-G3-RW-1	6/4/01	977.78	3.11	---	8.88	0.00	974.67	0.00
HR-G3-RW-1	6/11/01	977.78	4.78	---	8.81	0.00	973.00	0.00
HR-G3-RW-1	6/18/01	977.78	4.65	---	8.78	0.00	973.13	0.00
HR-G3-RW-1	6/25/01	977.78	4.99	---	8.79	0.00	972.79	0.00

Notes:

1. NAPL = Non-Aqueous Phase Liquid.
2. MP = Measuring Point
3. Feet AMSL = Feet Above Mean Sea Level

Exhibit A - Upper 1/2 Mile Reach Removal Action

Sediment and Bank Soil Removal Areas (Cells H-J)



LEGEND:

- 1.5 FEET SEDIMENT REMOVAL DEPTH
- 2 FEET SEDIMENT REMOVAL DEPTH
- 2.5 FEET SEDIMENT REMOVAL DEPTH
- 1 FOOT BANK SOIL REMOVAL DEPTH
- 2 FEET BANK SOIL REMOVAL DEPTH
- 3 FEET BANK SOIL REMOVAL DEPTH
- UPPER 1/2-MILE REMOVAL AREAS COMPLETED
- UPPER 1/2-MILE REMOVAL AREAS IN PROGRESS
- AREA SUBJECT TO BANK STABILIZATION ACTIVITIES
- EXISTING CONTAINMENT BARRIER LOCATION
- 0'-1' BANK SOIL POLYGON
- 1'-3' BANK SOIL POLYGON
- TOP OF BANK
- BANK SOIL AREA BOUNDARY
- CAP AND ARMOR TIE-IN BUFFER
- REMOVAL CELL
- ADDITIONAL EXCAVATION TO OCCUR IN CONJUNCTION WITH SOURCE CONTROL ACTIVITIES

- NOTES:**
1. MAPPING IS BEST AVAILABLE INFORMATION AS OF 12/10/98 BASED ON MAPPING PROVIDED BY LOCKWOOD MAPPING, INC. PREPARED FROM 1990 AERIAL PHOTOGRAPHY; DATA PROVIDED BY GENERAL ELECTRIC; AND BLASLAND AND BOUCK, P.C. CONSTRUCTION PLANS, RIVERBANK AND RIVER BED TOPOGRAPHIC INFORMATION PROVIDED BBL FROM OCTOBER 12-23, 1998 FIELD SURVEY.
 2. COORDINATE GRID BASED ON 1927 STATE PLAN COORDINATES.
 3. ELEVATION DATUM REFERENCED TO NGVD 1929.
 4. CELL LOCATIONS AND DISTANCES ARE APPROXIMATE.



X: 20197X1A,20197X1B,20197X07,20197X22.DWG
 LMAN: 9-15
 P: 15M-D, D2815M.PCP
 7/9/01 SHR-54-GMS JER LAF
 20197030/CELLG2/20197011.DWG

1/2-Mile Removal Action Backfill Tracking Log

Material	Testing Required	Frequency (per cy)	Submittal from MTI		Submittal to EPA		Sample Date	Number of Samples	Quantity Approved for Placement	Quantity Placed (cy)	Comments
			No.	Date	No.	Date					
Soil Backfill/Granular Fill (Brown's Pit)	Grain Size	2000	13/13A	11/17 & 11/18/99	8	12/01/99	11/16/99	1	1500	1314	Samples Collected as part of Allendale School Project
	PCBs	500	NA	NA	8A	12/15/99	12/08/99	2			
			NA	NA	14	05/31/00	05/18/00	2			
			NA	NA	22	03/14/01	02/28/01	2			
	VOCs	2000	NA	NA	8A	12/15/99	7/21-7/28/99	6			
	SVOCs	2000	NA	NA	8A	12/15/99	7/21-7/28/99	6			
	Metals	2000	NA	NA	8A	12/15/99	7/21-7/28/99	6			
TPH	2000	NA	NA	8A	12/15/99	12/01/99	3				
Isolation Layer (Pittsfield Sand & Gravel)	Grain Size	500	12	11/17/99	Letter	11/19/99	11/01/99	1	1000	770	Samples collected as part of off-site residential fill program
	12C	03/30/00	Letter		04/20/00	03/24/00	1				
			12	11/17/99	Letter	11/19/99	11/02/99	1			
	TOC	500	12C	03/30/00	Letter	04/20/00	03/30/00	1			
	PCBs	500	NA	NA	Letter	11/19/99	09/20/99	4			
			NA	NA	7	12/01/99	11/19/99	2			
			NA	NA	Letter	04/20/00	03/29/00	2			
VOCs	2000	NA	NA	Letter	11/19/99	09/20/99	4				
SVOCs	2000	NA	NA	Letter	11/19/99	09/20/99	4				
Metals	2000	NA	NA	Letter	11/19/99	09/20/99	4				
TPH	2000	NA	NA	7	12/01/99	11/19/99	2				
Isolation Layer (Bushika Sand & Gravel)	Grain Size	500	12A	01/03/00	Letter	01/06/00	12/28/99	1	3500	3698	
			12B	01/24/00	11	02/14/00	01/19/00	1			
			12D	05/08/00	13	05/19/00	05/02/00	1			
			12E	09/11/00	14	09/27/00	09/07/00	1			
			12F	09/29/00	17	10/04/00	09/26/00	1			
			12G	11/30/00	20	12/06/00	10/20/00	1			
	12H	03/08/01	21	03/14/01	03/05/01	1					
	TOC	500	12A	01/03/00	Letter	01/06/00	12/28/99	1			
			12B	01/24/00	11	02/14/00	01/19/00	1			
			12D	05/08/00	13	05/19/00	05/02/00	1			
			12E	09/11/00	14	09/27/00	09/06/00	1			
			12F	09/29/00	17	10/04/00	09/26/00	1			
			12G	11/30/00	20	12/06/00	10/20/00	1			
	PCBs	500	12H	03/08/01	21	03/14/01	03/05/01	1			
			NA	NA	10	01/14/00	01/05/00	2			
			NA	NA	11	02/14/00	02/02/00	2			
			NA	NA	13A	06/28/00	06/02/00	2			
			NA	NA	16A	10/04/00	09/26/00	3			
			NA	NA	18A	10/05/00	09/28/00	2			
	VOCs	2000	NA	NA	20A	01/09/01	12/05/00	2			
			NA	NA	21A	04/04/01	03/19/01	2			
			NA	NA	10	01/14/00	01/05/00	2			
			NA	NA	18A	10/05/00	09/28/00	2			
			NA	NA	10	01/14/00	01/05/00	2			
			NA	NA	18A	10/05/00	09/28/00	2			
	SVOCs	2000	NA	NA	10	01/14/00	01/05/00	2			
			NA	NA	18A	10/05/00	09/28/00	2			
			NA	NA	10	01/14/00	01/05/00	2			
			NA	NA	18A	10/05/00	09/28/00	2			
			NA	NA	10	01/14/00	01/05/00	2			
			NA	NA	18A	10/05/00	09/28/00	2			
	Metals	2000	NA	NA	10	01/14/00	01/05/00	2			
			NA	NA	18A	10/05/00	09/28/00	2			
NA			NA	10	01/14/00	01/05/00	2				
NA			NA	11	02/14/00	02/02/00	2				
NA			NA	18A	10/05/00	09/28/00	2				
NA			NA	18A	10/05/00	09/28/00	2				
TPH	2000	NA	NA	10	01/14/00	01/05/00	2				
		NA	NA	11	02/14/00	02/02/00	2				
		NA	NA	18A	10/05/00	09/28/00	2				
		NA	NA	18A	10/05/00	09/28/00	2				
		NA	NA	18A	10/05/00	09/28/00	2				
		NA	NA	18A	10/05/00	09/28/00	2				
Rip-Rap (9")	Grain Size	2000	15A	11/30/99	Letter	12/01/99	11/23/99	1	4000	2834	
			15B	10/04/00	19	10/11/00	09/28/00	1			
Rip-Rap (12") Topsoil (Woodmont)	Grain Size	2000	18	01/04/00	Letter	01/06/00	12/29/99	1	2000	763	
			TOC	500	11/14	11/16 & 11/17/99	9	12/15/99			
	pH	500	11/14	11/16 & 11/17/99	9	12/15/99	11/08/99	2			
	PCBs	500	NA	NA	9	12/15/99	12/08/99	4	500	Samples collected as part of off-site residential fill program	
	VOCs	2000	NA	NA	9	12/15/99	08/24/99	4			
	SVOCs	2000	NA	NA	9	12/15/99	08/24/99	4			
	Metals	2000	NA	NA	9	12/15/99	08/24/99	4			
	TPH	2000	NA	NA	9	12/15/99	12/08/99	2			
TPH	2000	NA	NA	9	12/15/99	12/08/99	2				
(Lahey's)	TOC	500	11A	05/09/01	23	05/15/01	04/30/01	1	500	0	
	pH	500	11A	05/09/01	23	05/15/01	04/30/01	1			
	PCBs	500	NA	NA	23	05/15/01	04/11/01	3			
	VOCs	2000	NA	NA	23	05/15/01	04/11/01	3			
	SVOCs	2000	NA	NA	23	05/15/01	04/11/01	3			
	Metals	2000	NA	NA	23	05/15/01	04/11/01	3			
	TPH	2000	NA	NA	23	05/15/01	04/11/01	3			

Notes:
Granular Fill and Soil Backfill have been combined as the same material
Quantities placed include Cells A, B, C, D, DNAPL, E, F-1, F-2, G1, G2, G3 and H1.
NA = Not Applicable

**½-MILE RIVER REMOVAL ACTION
MONTHLY PROGRESS REPORT
JUNE 2001
FIGURE 1: PHOTO DOCUMENTATION**

PHOTO NO. 1

LOCATION: Cell G3/Building 68 Area.

DESCRIPTION: Restored bank erosion area.

DATE: July 2, 2001



PHOTO NO. 2

LOCATION: Cell H1 (Upstream)

DESCRIPTION: Post-excavation riverbed.

DATE: June 13, 2001



PHOTO NO. 3

LOCATION: Cell H1 (Downstream)

DESCRIPTION: Restored bank and river area.

DATE: June 25, 2001

