



SDMS: 287043
08-0070

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

May 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 1/2-Mile Reach of Housatonic River Removal Action
Monthly Report - April 2001**

Dear Mr. Tagliaferro and Ms. Cutler:

In accordance with the approved Removal Action Work Plan - Upper 1/2 Mile Reach of Housatonic River, enclosed please find the April 2001 Monthly Report.

Please call me with any questions.

Yours truly,



/ for ATS

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

cc: J.R. Bieke, Esquire, Shea & Gardner
M.T. Carroll, GE
T. Conway, EPA
R. Goff, ACE
H. Inglis, EPA
J.H. Maxymillian, Maxymillian Technologies
B.T. McKinsey, BBL
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B. Olson, EPA
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A. Weinberg, DEP

1.0 Overview:

During April 2001, GE and its contractor Maxymillian Technologies Incorporated (MTI) continued work on the Upper ½ Mile Reach Removal Action. The primary work included soil and sediment removal activities in Cell F3. Removal activities in Cell F3 were substantially delayed by the occurrence of a flood event from April 8 through April 26. Removal activities in Cell F3 resumed again at the end of the month.

Weekly status meetings were held on April 4, 12, and 24. The weekly status meeting scheduled for April 18 was cancelled.

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 April 2001, GE Buildings 33-north, 33X and 65 were used as temporary storage facilities for TSCA and non-TSCA material. In addition, a temporary storage area was maintained in Building 65 to stockpile NAPL-impacted sediment excavated from Cell F3 prior to off-site disposal.

During the first week of April, soil and sediment removal activities in Cell F3 continued (from March). Sediment and soil removed from the cell was initially transported to Building 33X for temporary stockpiling prior to placement in the appropriate On-Plant Consolidation Area (OPCA).

On April 3, 2001, GE notified the National Response Center (NRC), EPA, and MDEP, as a supplement to its prior notification to those agencies regarding the finding of dense non-aqueous-phase liquid (DNAPL) in Cell F3 (first observed on March 27, 2001), that based on the analytical data for that DNAPL and the estimated amount of DNAPL observed, the PCBs in the DNAPL might exceed the Reportable Quantity of 1 pound in a 24-hour period.

On April 4, 2001, during excavation work in the downstream part of Cell F3, DNAPL was again observed in that cell in the form of a couple of small pools of DNAPL located near the previous location of DNAPL observed on March 27, 2001 (approximately 1,700 feet downstream from the Newell Street Bridge). On April 5, as a further supplement to its prior notification regarding the DNAPL in Cell F3, GE verbally reported this observation to EPA, MDEP, and the NRC (which issued release tracking number 561980), including a notification that the PCBs in this DNAPL could potentially exceed the Reportable Quantity. 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. GE conducted a relatively shallow further excavation in the area of the DNAPL in an effort to remove the DNAPL. With EPA approval and oversight, that excavation involved the removal of

approximately 8 cubic yards (cy) of NAPL-containing sediment and, based on visual observation, successfully removed the DNAPL from the river bottom. The excavated sediment was transported to the Building 65 containment area for staging prior to being characterized for disposal purposes. The excavation was then backfilled with washed stone to address the presence of small boils and stabilize the excavation area.

The identification of DNAPL in Cell F3 caused minimal delay of the work tasks being performed in that cell. Regular excavation activities associated with the Work Plan were conducted during the week concurrently with the DNAPL removal activities in Cell F3. On Friday, April 6, due to the weather forecast, equipment and materials were removed from Cell F3 in anticipation of a possible flood event occurring over the upcoming weekend.

Over the course of the weekend of April 7-8, the combination of heavy rains, warm temperatures, and snow melt caused the river to rise substantially. On Sunday, April 8, the rising waters overtopped the sheetpiling at Cell F3 and flooded that cell. Rain continued through April 10, when the river flow exceeded 1,000 cfs. On that date, GE notified EPA and MDEP that this flooding could potentially constitute a force majeure event under the Consent Decree. Further, in response to this high-flow event, Cell G2 NAPL monitoring wells were monitored on April 11 and NAPL was not observed. In addition, Cells G2 and G3 recovery wells were to be monitored, but were submerged below the flooded river and could not be accessed. The river flow continued to overtop the cell during the week of April 9 – April 13.

The river flow again exceeded 1,000 cfs from Friday, April 13 through Sunday, April 15. In response, the Cell G2 NAPL monitoring wells and the Cell G3 NAPL recovery well were monitored on April 16 and NAPL was not observed. In addition, the Cell G2 recovery well was to be monitored but was submerged below the flooded river and could not be accessed. The river flow rate continued to decrease during the week of April 16 through April 20.

Dewatering of Cell F3 was initiated on April 20 in response to the river flow dropping below the sheetpiling. However, on Sunday, April 22, the river flow again exceeded 1,000 cfs, apparently due to warm temperatures and associated snow melt surcharge to the river, and the river water again overtopped the sheetpiling at Cell F3. In response to this high-flow event, the Cell G2 NAPL monitoring wells and the Cell G3 recovery well were monitored on April 23 and NAPL was not observed. In addition, the Cell G2 recovery well was to be monitored but was submerged below the flooded river and could not be accessed.

During the week of April 23, the river flow continued to decrease and dewatering of Cell F3 was initiated on April 27 in response to river flow dropping below the sheetpiling. The Cell F3 work area was inspected for areas of erosion and possible presence of DNAPL following dewatering of cell. Based on the inspection, no significant erosion was noted and NAPL was not observed. The month ended with the re-initiation of removal activities in Cell F3.

GE continued weekly monitoring of the recovery and monitoring wells associated with the Cells G2 and G3 source control barrier walls. LNAPL was observed at a thickness of 0.01 feet in the Cell G2 recovery well on April 2 and April 30, but was not recoverable at this thickness. NAPL was not observed in the remaining wells during this period. Monitoring of these wells will continue during the month of May.

Air monitoring for particulate matter was conducted on a daily basis. The April PCB air monitoring event will be conducted in early May during excavation activities in Cell F3. Water column (PCB and TSS) monitoring was also continued during April. Temporary stockpiles of material were maintained in Buildings 33, 33X, and 65 (TSCA and non-TSCA).

Finally, in April, GE continued discussions with EPA regarding a revised estimated project planning timetable and a revised completion date for this Removal Action.

3.0 Number of samples collected:

Table 1 presents the results of the April air monitoring events. During the month of April, particulate air monitoring was conducted from April 1 through April 30, 2001. The April monthly PCB air monitoring event will be conducted during the first week of May and the analytical results will be presented in next month's report.

Water column monitoring for turbidity was conducted on a daily basis during the month of April and the results are presented in Table 2A. Water column samples were collected for total suspended solids (TSS) and PCB analysis on April 12, and April 26, 2001. The TSS and PCB results received in April are attached to this report in Tables 2A and 2B.

Table 3 presents the results from topsoil sampling for materials obtained from Lahey Gravel Pit.

Table 4 presents the results from the monitoring of the NAPL recovery and monitoring wells associated with the Cell G2 source control barrier wall.

Table 5 presents the results from the monitoring of the NAPL recovery well associated with the Cell G3 source control barrier wall.

4.0 Diagrams associated with the tasks performed:

A diagram labeled as Exhibit A shows the location of the Cells (A, B, C, D, E, F, and G) 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 April, meeting summaries from the weekly project status meetings were submitted to EPA, MDEP and the Massachusetts Executive Office of Environmental Affairs. Also, for work completed in March 2001, the monthly reports required by the Consent Decree and the Upper 1/2-Mile Reach Removal Action Work Plan were both submitted on April 9, 2001.

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

- Letter regarding *DNAPL Report and Response Measures – Cell F3* (April 9, 2001).
- Letter regarding *Potential Force Majeure – DNAPL in Cell F3* (April 9, 2001).
- Letter regarding *Summary of Compensation for Cell G2 Erosion* (April 12, 2001).
- Letter regarding *Potential Force Majeure – Flooding in Cell F3* (April 20, 2001).
- May 2001 planting schedule for restored bank vegetation areas.

6.0 Photo documentation of activities performed:

- See attached Figure 1.

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

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

- Perform an inspection of restored bank areas (following a high-flow event) and address erosion issues, as approved by EPA.
- Complete installation of remaining Cells G2 and G3 monitoring wells.

- Continue monitoring coal-tar LNAPL recovery and monitoring wells associated with the Cell G2 source control sheetpile wall.
- Continue monitoring of the coal-tar DNAPL recovery well associated with the Cell G3 source control sheetpile wall.
- Continue removal and restoration activities in Cell F-3 (south side of the river).
- Complete vegetative plantings associated with the bank restoration activities for Cells G2, G3 and F3.
- Initiate removal and restoration activities in Cell H1.
- Maintain temporary stockpiles of material in Buildings 33, 33X, and 65 (Non-TSCA, TSCA, and NAPL-impacted, respectively).
- Complete off-site disposal of DNAPL-impacted sediment removed from Cell F3 (staged in Building 65).
- Begin transferring material stockpiled in Buildings 33, 33X, and 65 to the appropriate OPCA.
- Continue to conduct air monitoring and water column monitoring.

8.0 Attachments to this report:

- Table 1 - Results of the April air monitoring events for particulate matter.
- Table 2 - Water column monitoring results for turbidity, total suspended solids (TSS), and PCBs.
- Table 3 – Results from topsoil sampling of materials from Lahey Gravel Pit.
- Table 4 - Results from the monitoring of the NAPL recovery and monitoring wells associated with the Cell G2 source control barrier wall.
- Table 5 – Results from the monitoring of the NAPL recovery well associated with the Cell G3 source control barrier wall.
- Exhibit A - Diagram to show the locations of cells within the upstream part of the Upper ½ Mile Reach Removal Action.

- 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
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING APRIL 2001

Date	Sampler Location	Average Site Concentration (mg/m ³)	BM-1 (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
4/2/2001	AM-4 (south side of river)	0.012	0.005	8:30	WNW
4/3/2001	AM-4 (south side of river)	0.013	0.008	9:30	WNW
4/4/2001	AM-4 (south side of river)	0.005	0.008	9:30	N
4/5/2001	AM-4 (south side of river)	0.013	0.011	10:00	NW
4/6/2001	AM-4 (south side of river)	0.029	0.025	3:45 ¹	Variable
4/9/2001	AM-4 (south side of river)	0.005	0.005	9:15	NW
4/10/2001	AM-4 (south side of river)	0.005	0.005	9:30	NW, NNW
4/11/2001	AM-4 (south side of river)	0.009	0.006	10:30	S
4/12/01 ²	AM-4 (south side of river)	NA	NA	NA	NA
4/13/2001	AM-4 (south side of river)	0.009	0.008	9:45	WNW
4/16/2001	AM-4 (south side of river)	0.006	0.013	10:00	NNW
4/17/2001	AM-4 (south side of river)	0.007	0.005	10:00	ENE
4/18/01 ²	AM-4 (south side of river)	NA	NA	NA	NA
4/19/2001	AM-4 (south side of river)	0.008	0.005	9:38	WNW
4/20/2001	AM-4 (south side of river)	0.013	0.010	9:30	SW
4/23/2001	AM-4 (south side of river)	0.006	0.009	9:00	S, SSW
4/24/2001	AM-4 (south side of river)	0.023	0.028	10:00	SSW - NW
4/25/2001	AM-4 (south side of river)	0.009	0.008	10:30	N
4/26/2001	AM-4 (south side of river)	0.010	0.014	10:30	Variable
4/27/2001	AM-4 (south side of river)	0.014	0.013	10:00	WNW
4/30/2001	AM-4 (south side of river)	0.010	0.055	9:45	W
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.

¹ Sampling period was shortened due to precipitation/threat of precipitation.

² Sampling was not performed due to precipitation/threat of precipitation.

TABLE 2A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

APRIL 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 ¹⁶ (cfs)	Turbidity (ntu) ¹³			Sample ID	Total PCB Concentration ¹⁴ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	4/2/01	2.3	2	83	4	2	3	---	---	---	---
Downstream of Lyman St. Bridge	4/2/01	3.0	2	83	3	2	2	---	---	---	---
Upstream of Newell St. Bridge	4/3/01	2.2	2	80	4	1	3	---	---	---	---
Downstream of Lyman St. Bridge	4/3/01	2.9	2	80	4	2	2	---	---	---	---
Upstream of Newell St. Bridge	4/4/01	2.3	3	82	7	4	4	---	---	---	---
Downstream of Lyman St. Bridge	4/4/01	2.9	3	82	6	3	4	---	---	---	---
Upstream of Newell St. Bridge	4/5/01	2.5	3	97	8	4	5	---	---	---	---
Downstream of Lyman St. Bridge	4/5/01	3.1	3	97	7	4	5	---	---	---	---
Upstream of Newell St. Bridge	4/6/01	3.0	4	135	15	4	6	---	---	---	---
Downstream of Lyman St. Bridge	4/6/01	3.5	4	135	23	4	6	---	---	---	---
Upstream of Newell St. Bridge	4/9/01	---	---	476	47	14	22	---	---	---	---
Downstream of Lyman St. Bridge	4/9/01	---	---	476	NS	NS	NS	---	---	---	---
Upstream of Newell St. Bridge	4/10/01	---	5	798	15	10	14	---	---	---	---
Downstream of Lyman St. Bridge	4/10/01	---	5	798	13	10	12	---	---	---	---
Upstream of Newell St. Bridge	4/11/01	---	3	818	15	9	9	---	---	---	---
Downstream of Lyman St. Bridge	4/11/01	---	3	818	10	7	8	---	---	---	---
Upstream of Newell St. Bridge	4/12/01	4.5+	3	889	10	8	11	HR-4-12-01-U1	ND(0.0250)	ND(0.0250)	9.35
Downstream of Lyman St. Bridge	4/12/01	4.5+	3	889	9	8	10	HR-4-12-01-D1	ND(0.0250)[ND(0.0250)]	ND(0.0250)[ND(0.0250)]	10.5[10.4]
Upstream of Newell St. Bridge	4/13/01	4.5+	4	837	11	10	8	---	---	---	---
Downstream of Lyman St. Bridge	4/13/01	4.5+	4	837	11	9	10	---	---	---	---
Upstream of Newell St. Bridge	4/16/01	---	---	755	12	5	7	---	---	---	---
Downstream of Lyman St. Bridge	4/16/01	---	---	755	7	5	6	---	---	---	---
Upstream of Newell St. Bridge	4/17/01	---	4	621	6	5	7	---	---	---	---
Downstream of Lyman St. Bridge	4/17/01	---	4	621	6	5	7	---	---	---	---
Upstream of Newell St. Bridge	4/18/01	---	4	513	5	4	5	---	---	---	---
Downstream of Lyman St. Bridge	4/18/01	---	4	513	5	4	5	---	---	---	---
Upstream of Newell St. Bridge	4/19/01	---	---	441	5	4	5	---	---	---	---
Downstream of Lyman St. Bridge	4/19/01	---	---	441	5	3	4	---	---	---	---
Upstream of Newell St. Bridge	4/20/01	---	---	375	4	3	4	---	---	---	---
Downstream of Lyman St. Bridge	4/20/01	---	---	375	5	3	4	---	---	---	---
Upstream of Newell St. Bridge	4/23/01	---	---	730	10	6	7	---	---	---	---
Downstream of Lyman St. Bridge	4/23/01	---	---	730	9	6	6	---	---	---	---

TABLE 2A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

APRIL 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 ¹⁶ (cfs)	Turbidity (ntu) ¹³			Sample ID	Total PCB Concentration ¹⁴ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	4/24/01	---	---	546	6	5	6	---	---	---	---
Downstream of Lyman St. Bridge	4/24/01	---	---		5	4	5	---	---	---	---
Upstream of Newell St. Bridge	4/25/01	---	---	407	4	2	3	---	---	---	---
Downstream of Lyman St. Bridge	4/25/01	---	---		4	3	4	---	---	---	---
Upstream of Newell St. Bridge	4/26/01	3.6	10	275	6	5	5	HR-4-26-01-U1	NR	NR	NR
Downstream of Lyman St. Bridge	4/26/01	4.2	10		6	5	8	HR-4-26-01-D1	NR	NR	NR
Upstream of Newell St. Bridge	4/27/01	3.5	10	224	5	3	4	---	---	---	---
Downstream of Lyman St. Bridge	4/27/01	4.0	10		7	2	5	---	---	---	---
Upstream of Newell St. Bridge	4/30/01	2.6	5	122	3	2	3	---	---	---	---
Downstream of Lyman St. Bridge	4/30/01	3.2	5		5	2	3	---	---	---	---

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. [] - Duplicate sample result
13. Turbidity Action Level = Turbidity downstream ≤ Turbidity upstream + 50 ntu
14. PCB Action Level = PCBs downstream ≤ PCBs upstream + 5 ug/l
15. NS - Not sampled due to frozen river conditions or high flow.
16. 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).

TABLE 2B

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER - UPPER 1/2 MILE REACH
HOUSATONIC RIVER PCB/TSS MONITORING DURING CONSTRUCTION
DATA RECEIVED DURING APRIL 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-3-30-01-U1	Upstream of Newell St. Bridge	3/30/2001	ND(0.0000250)	0.000103 AF	0.0000255	0.000129	3.67
HR-3-30-01-D1	Downstream of Lyman St. Bridge	3/30/2001	ND(0.0000250)	0.000168 AF	0.0000420	0.000210	2.40
HR-3-30-01-U1 (FILTERED)	Upstream of Newell St. Bridge	3/30/2001	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	---
HR-3-30-01-D1 (FILTERED)	Downstream of Lyman St. Bridge	3/30/2001	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	---
HR-4-12-01-U1	Upstream of Newell St. Bridge	4/12/2001	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	9.35
HR-4-12-01-D1	Downstream of Lyman St. Bridge	4/12/2001	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	10.5 [10.4]
HR-4-12-01-U1 (FILTERED)	Upstream of Newell St. Bridge	4/12/2001	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	---
HR-4-12-01-D1 (FILTERED)	Downstream of Lyman St. Bridge	4/12/2001	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	--- [---]

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. --- - Not analyzed.
4. AF - Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
5. Blind duplicate results are presented in brackets.

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

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

(Results are presented in parts per million, ppm)

Parameter	Sample ID:	LAHEY-COMP-1
Date Collected:	04/11/01	
Volatile Organics		
2-Butanone		0.014 J
Acetone		0.26 B
PCBs		
None Detected		--
Semivolatile Organics		
Diethylphthalate		0.21 J
Pyrene		0.063 J
Inorganics		
Barium		28.1 L
Chromium		7.93
Lead		16.0
Mercury		0.0569

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical, Inc. for analysis of PCBs, VOCs, and SVOCs.
2. Only detected constituents are summarized.
3. J - Indicates an estimated value less than the practical quantitation limit (PQL).
4. B - Analyte was also detected in the associated method blank.
5. L - Indicates laboratory duplicate analysis was outside control limits.

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

UPPER 1/2-MILE REACH OF HOUSATONIC RIVER

CELL G-2 MONITORING RESULTS - APRIL 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)	Corrected Groundwater Elevation (Feet AMSL)	NAPL Removal (Liters)
ES2-2A	04/11/01	979.54	2.58	---	17.16	0.00	976.96	0.00
ES2-2A	04/16/01	979.54	2.66	---	17.35	0.00	976.88	0.00
ES2-2A	04/23/01	979.54	3.35	---	17.40	0.00	976.19	0.00
ES2-7	04/11/01	980.03	3.35	---	42.68	0.00	976.68	0.00
ES2-7	04/16/01	980.03	2.98	---	42.69	0.00	977.05	0.00
ES2-7	04/23/01	980.03	3.28	---	42.68	0.00	976.75	0.00
HR-G2-MW-1	04/02/01	982.60	9.88	---	18.28	0.00	972.72	0.00
HR-G2-MW-1	04/09/01	982.60	7.00	---	18.28	0.00	975.60	0.00
HR-G2-MW-1	04/11/01	982.60	5.46	---	18.28	0.00	977.14	0.00
HR-G2-MW-1	04/16/01	982.60	5.66	---	18.28	0.00	976.94	0.00
HR-G2-MW-1	04/23/01	982.60	5.62	---	18.28	0.00	976.98	0.00
HR-G2-MW-1	04/30/01	982.60	9.42	---	18.26	0.00	973.18	0.00
HR-G2-MW-2	04/02/01	981.39	8.31	---	17.69	0.00	973.08	0.00
HR-G2-MW-2	04/09/01	981.39	5.99	---	17.68	0.00	975.40	0.00
HR-G2-MW-2	04/11/01	981.39	4.58	---	17.68	0.00	976.81	0.00
HR-G2-MW-2	04/16/01	981.39	4.50	---	17.68	0.00	976.89	0.00
HR-G2-MW-2	04/23/01	981.39	4.57	---	17.68	0.00	976.82	0.00
HR-G2-MW-2	04/30/01	981.39	7.40	---	17.68	0.00	973.99	0.00
HR-G2-RW-1	4/2/2001	976.88	5.39	5.38	18.74	0.01	971.50	0.00
HR-G2-RW-1	4/9/2001	976.88	1.85	---	18.75	0.00	975.03	0.00
HR-G2-RW-1	4/11/2001	976.88	See Note 4	---	---	---	>976.88	0.00
HR-G2-RW-1	4/16/2001	976.88	See Note 4	---	---	---	>976.88	0.00
HR-G2-RW-1	4/23/2001	976.88	See Note 4	---	---	---	>976.88	0.00
HR-G2-RW-1	4/30/2001	976.88	4.81	4.80	18.72	0.01	972.08	0.00

Notes:

1. NAPL = Non-Aqueous Phase Liquid.
2. MP = Measuring Point
3. Feet AMSL = Feet Above Mean Sea Level
4. The top of well HR-G2-RW-1 was submerged; therefore measurements could not be collected.
5. Water table elevations for wells containing LNAPL were computed as follows:
Water Table Elevation=Measuring Point Elevation-Depth to Water+(LNAPL Thickness x LNAPL Specific Density)
Specific Density of LNAPL estimated at 0.93.
6. Well ES2-2 was not monitored in April 2001 as this well could not be located.

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

UPPER 1/2-MILE REACH OF HOUSATONIC RIVER

CELL G-3 MONITORING RESULTS - APRIL 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-RW-1	4/2/2001	977.78	4.85	---	9.09	0.00	972.93	0.00
HR-G3-RW-1	4/9/2001	977.78	3.32	---	9.01	0.00	974.46	0.00
HR-G3-RW-1	4/16/2001	977.78	1.18	---	8.98	0.00	976.60	0.00
HR-G3-RW-1	4/23/2001	977.78	1.79	---	8.95	0.00	975.99	0.00
HR-G3-RW-1	4/30/2001	977.78	3.67	---	8.93	0.00	974.11	0.00

Notes:

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

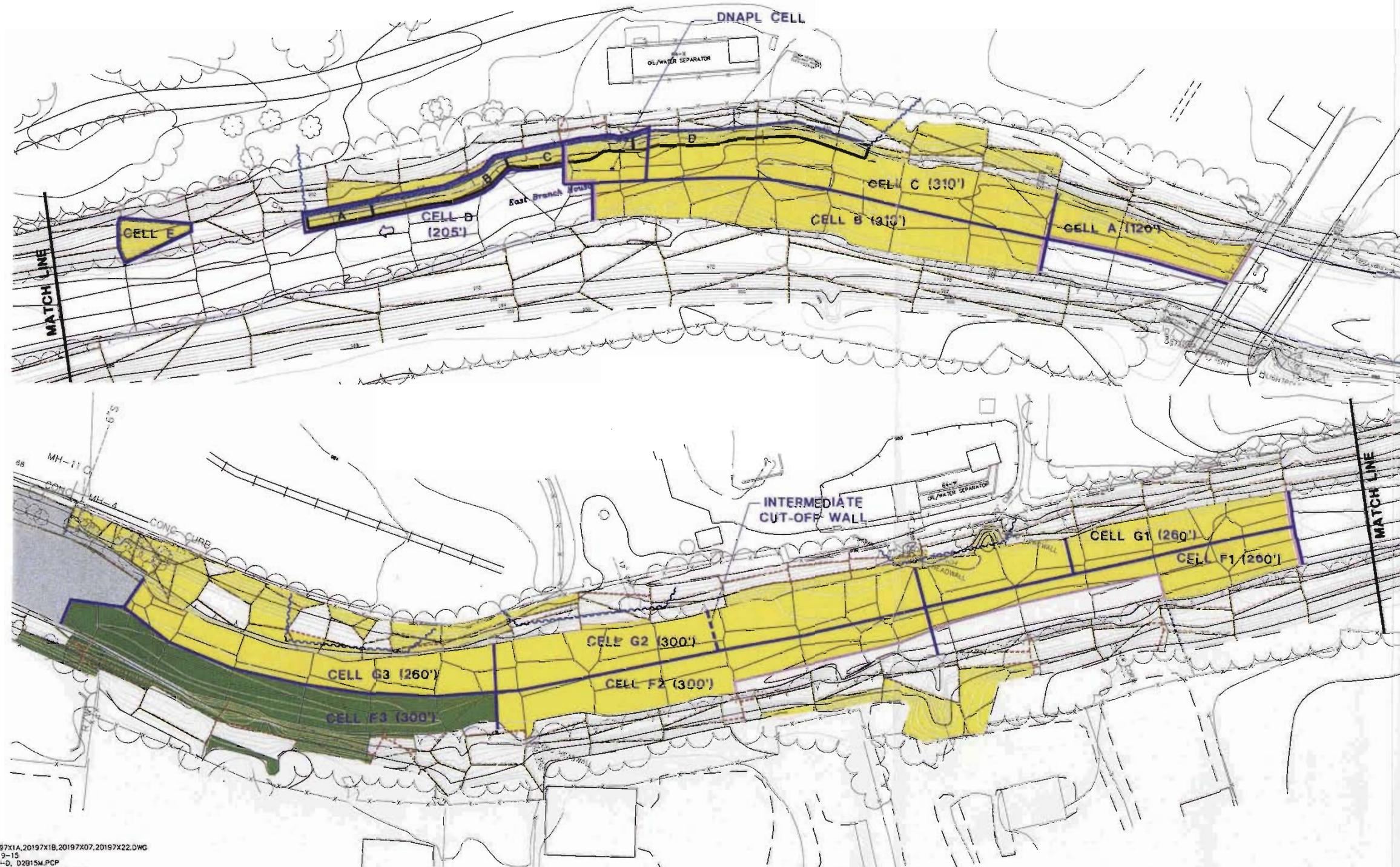
1/2-Mile Removal Action Backfill Tracking Log

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	12/1/1999	11/16/1999	1	1500	1314	Samples Collected as part of Allendale School Project				
	PCBs	500	NA	NA	8A	12/15/1999	12/8/1999	2							
			NA	NA	14	5/31/2000	5/18/2000	2							
			NA	NA	22	3/14/2001	2/28/2001	2							
	VOCs	2000	NA	NA	8A	12/15/1999	7/21-7/28/99	6							
	SVOCs	2000	NA	NA	8A	12/15/1999	7/21-7/28/99	6							
	Metals	2000	NA	NA	8A	12/15/1999	7/21-7/28/99	6							
TPH	2000	NA	NA	8A	12/15/1999	12/1/1999	3								
Isolation Layer (Pittsfield Sand & Gravel)	Grain Size	500	12	11/17/1999	Letter	11/19/1999	11/1/1999	1	1000	770	Samples collected as part of off-site residential fill program				
			12C	3/30/2000	Letter	4/20/2000	3/24/2000	1							
	TOC	500	12	11/17/1999	Letter	11/19/1999	11/2/1999	1							
			12C	3/30/2000	Letter	4/20/2000	3/30/2000	1							
	PCBs	500	NA	NA	Letter	11/19/1999	9/20/1999	4							
			NA	NA	7	12/1/1999	11/19/1999	2							
			NA	NA	Letter	4/20/2000	3/29/2000	2							
	VOCs	2000	NA	NA	Letter	11/19/1999	9/20/1999	4							
	SVOCs	2000	NA	NA	Letter	11/19/1999	9/20/1999	4							
	Metals	2000	NA	NA	Letter	11/19/1999	9/20/1999	4							
TPH	2000	NA	NA	7	12/1/1999	11/19/1999	2								
Isolation Layer (Bushika Sand & Gravel)	Grain Size	500	12A	1/3/2000	Letter	1/6/2000	12/28/1999	1	3500	2937					
			12B	1/24/2000	11	2/14/2000	1/19/2000	1							
			12D	5/8/2000	13	5/19/2000	5/2/2000	1							
			12E	9/11/2000	14	9/27/2000	9/7/2000	1							
			12F	9/29/2000	17	10/4/2000	9/26/2000	1							
			12G	11/30/2000	20	12/6/2000	10/20/2000	1							
			12H	3/8/2001	21	3/14/2001	3/5/2001	1							
			12A	1/3/2000	Letter	1/6/2000	12/28/1999	1							
	TOC	500	12B	1/24/2000	11	2/14/2000	1/19/2000	1							
			12D	5/8/2000	13	5/19/2000	5/2/2000	1							
			12E	9/11/2000	14	9/27/2000	9/6/2000	1							
			12F	9/29/2000	17	10/4/2000	9/26/2000	1							
			12G	11/30/2000	20	12/6/2000	10/20/2000	1							
			12H	3/8/2001	21	3/14/2001	3/5/2001	1							
			NA	NA	10	1/14/2000	1/5/2000	2							
			NA	NA	11	2/14/2000	2/2/2000	2							
	PCBs	500	NA	NA	13A	6/28/2000	6/2/2000	2							
			NA	NA	16A	10/4/2000	9/26/2000	3							
			NA	NA	18A	10/5/2000	9/28/2000	2							
			NA	NA	20A	1/9/2001	12/5/2000	2							
			NA	NA	21A	4/4/2001	3/19/2001	2							
			NA	NA	10	1/14/2000	1/5/2000	2							
			NA	NA	18A	10/5/2000	9/28/2000	2							
			NA	NA	10	1/14/2000	1/5/2000	2							
	VOCs	2000	NA	NA	10	1/14/2000	1/5/2000	2							
			NA	NA	18A	10/5/2000	9/28/2000	2							
	SVOCs	2000	NA	NA	10	1/14/2000	1/5/2000	2							
			NA	NA	18A	10/5/2000	9/28/2000	2							
	Metals	2000	NA	NA	10	1/14/2000	1/5/2000	2							
			NA	NA	18A	10/5/2000	9/28/2000	2							
	TPH	2000	NA	NA	10	1/14/2000	1/5/2000	2							
			NA	NA	18A	10/5/2000	9/28/2000	2							
	Rip-Rap (9")	Grain Size	2000	15A	11/30/1999	Letter	12/1/1999	11/23/1999				1	4000	2299	
				15B	10/4/2000	19	10/11/2000	9/28/2000				1			
	Rip-Rap (12")	Grain Size	2000	18	1/4/2000	Letter	1/6/2000	12/29/1999				1	2000	438	
	Topsoil (Woodmont)	Organic Content	500	11/14	11/16 & 11/17/99	9	12/15/1999	11/8/1999				2	500	400	Samples collected as part of off-site residential fill program
		pH	500	11/14	11/16 & 11/17/99	9	12/15/1999	11/8/1999				2			
		PCBs	500	NA	NA	9	12/15/1999	12/8/1999				4			
		VOCs	2000	NA	NA	9	12/15/1999	8/24/1999				4			
		SVOCs	2000	NA	NA	9	12/15/1999	8/24/1999				4			
Metals		2000	NA	NA	9	12/15/1999	8/24/1999	4							
TPH		2000	NA	NA	9	12/15/1999	12/8/1999	2							

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, and G.

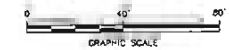
Exhibit A - Upper 1/2 Mile Reach Removal Action

Sediment and Bank Soil Removal Areas (Cells A-G)



- 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.



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

PHOTO NO. 1

LOCATION: Cell F3 (Downstream)

DESCRIPTION: DNAPL Removal Area

DATE: April 4, 2001



PHOTO NO. 2

LOCATION: Cell H1

DESCRIPTION: Flood conditions

DATE: April 12, 2001



PHOTO NO. 3

LOCATION: Cell F3 (Downstream)

DESCRIPTION: Dewatered cell
after flood

DATE: April 30, 2001

