



Site: GE-004  
 Break: 2.6  
 Other: 6820

January 10, 2000



SDMS DocID 6820

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

Ms. Susan Steenstrup  
 Department of Environmental Protection  
 436 Dwight Street  
 Springfield, MA 01103

**Re: Upper 1/2-Mile Reach of Housatonic River Removal Action  
 Monthly Report - December 1999**

Dear Mr. Tagliaferro and Ms. Steenstrup:

In accordance with the approved Removal Action Work Plan - Upper 1/2 Mile Reach of Housatonic River, enclosed please find the December 1999 Monthly Report.

Please call with any questions.

Yours truly,

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  
 W.A. Horne, GE  
 H. Inglis, EPA  
 J.H. Maxymillian, Maxymillian Technologies  
 S. Messur, BBL  
 K.C. Mitkevicius, USACE  
 T. O'Brien, MA EOE  
 B. Olson, EPA  
 A.J. Thomas, Esquire, GE  
 A. Weinberg, DEP

#6820  
 0024246

## **1.0 Background:**

Progress continued on the Upper ½ Mile Reach Removal Action through December 1999. Maxymillian Technologies completed removal and backfill activities in the first 2 cells at the upstream most area of the project. Weekly status meetings were held on 12/6, 12/13, 12/20, and 12/28.

## **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 progressing downstream along the river. In the month of December, removal/restoration activities in cells A and B were completed. These activities included the following general sequence of events:

- sheetpiling installation;
- de-watering;
- layout of excavation limits;
- recording of existing elevations;
- sediment and bank removal of material;
- verification of excavation limits;
- restoration activities including fabric, sand, fabric/geogrid, and rock;
- verification of placement limits; and,
- removal of sheetpiling.

At the end of this reporting period, removal/restoration activities in cells A and B were complete and sheetpile installation activities were beginning in cell C. Excavated TSCA and non-TSCA material from these cells continues to be stored temporarily in Bldg. 65.

In cell A an additional 15 CY of river sediment was removed at GE's discretion due to the appearance of the material at the final removal depth. In a 20ft by 20ft area, approximately 1 ft of material was removed (as discussed on site with the EPA). In the same cell, where the toe of the slope was excavated, approximately 15 CY of additional material was removed where the bank of the excavation area had sloughed into the cell. Slope stabilization activities were completed for approximately a 30-ft long section of the north bank.

During the sheetpile installation operations down the center of the river, a minor localized oil sheen was observed on December 10, 1999. An additional oil absorbent boom was deployed and GE promptly reported this observation to the MDEP, EPA, EPA Region 1 Spill Response, and the National Response Center (NRC). A release tracking number (508571) from the NRC was issued. MDEP did not issue a new release notification number and the sheen was not visible after 16 hours.

## **2.0 Chronological description of the tasks performed (continued):**

In cell B the first habitat restoration structure was completed and accepted by the EOE representative (on behalf of the Trustees). One single wing triangular deflector was constructed with a combination of larger 24" stones along the perimeter and 12" size rip-rap in the core of this structure. The final elevation was at the normal water surface elevation of the river, which is approximately 972 feet above mean sea level.

Work in cell E (bank area), which involved soil removal to a 1 foot depth and restoration activities were completed. Excavation of an additional bank area adjacent to cell D was also completed and the area was backfilled, except adjacent to the permanent source control sheetpiling. Backfill and restoration of this area will be completed after the sheetpile wall is grouted.

## **3.0 Number of samples collected:**

In the month of December, particulate air monitoring results were collected from 12/01/99 to 12/30/99 and PCB air monitoring results were collected on 12/20/99 through 12/21/99. The available results are attached to this report (refer to Table 1A for particulate results and Table 1B for PCB results). Water column monitoring for total suspended solids (TSS) was conducted on a daily basis. Water column PCB samples were collected once every 2 weeks. The TSS and PCB results received to date for the month of December and results from November 1999 that were not available for the December 10, 1999 report, are attached to this report (Table 1C and 1D). The PCB results from 12/21/99 will be reported next month.

The effluent from cell de-watering was sampled for priority pollutants. These sampling results are attached to this report (Table 2). Additional material samples were also collected and the various physical and analytical test results were transmitted to the EPA as part of the specification submittal process. A summary is attached to this report (Table 3).

## **4.0 Diagrams associated with the tasks performed:**

A diagram labeled as **Exhibit A** shows the location of the cells (A, B, C, D and E) and is attached to this report for reference.

## **5.0 Identification of any reports received and prepared:**

During the month of December 1999, meeting summaries from various status meetings were submitted to the EPA MDEP and EOE. Additionally, construction material specifications as referenced in Section 3.0 were submitted to the EPA, MDEP, and EOE.

An estimated project planning timetable for the entire project was submitted to EPA on 12/01/99 (that timetable has since been revised and was resubmitted to EPA on 1/07/00). Also, a revised estimated project-planning timetable for work through February 2000 was submitted to EPA for informational purposes only.

For work completed in November 1999, monthly reports, as required by the Consent Decree and the ½ Mile River Removal Action Work Plan, were submitted on December 10, 1999.

## **6.0 Photo documentation of activities performed:** See attached (Figure 1)

## **7.0 Brief description of activities to be performed in January 1999:**

Throughout the upcoming weeks in the month of January, the following activities are estimated to take place:

- Bldg. 33X will be prepared and maintained as a second temporary stockpile area for TSCA and non-TSCA material (per EPA approval);
- Sheetpile installation will be completed and dewatering activities will be ongoing in cells C and D;
- Removal and restoration activities in cell C are estimated to be completed;
- Removal and restoration activities in cell D are estimated to be completed;
- Flushing and sealing/grouting activities for the East Street Area 2 source control sheetpile will be in progress and likely completed in late January; and,
- Air and water column monitoring will continue.

## **8.0 Attachments to this report:**

- Table 1A - Water column monitoring TSS results;
- Table 1B - Water column monitoring PCB results;
- Table 1C - Particulate air monitoring results;
- Table 1D - PCB air monitoring results;
- Table 2 - Cell de-watering effluent priority pollutant data;
- Table 3 - Backfill soil sampling results;
- Exhibit A - Diagram to show the locations of cells within the upstream part of the Upper ½ Mile Reach Removal Action; and,
- Figure 1 - Photo documentation sheet;

TABLE 1A

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

DECEMBER 1999

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

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu)			Sample ID	Total PCB Concentration (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	12/1/99	2.6	2.0	87	2	2	2	---	---	---	---
Downstream of Lyman St. Bridge	12/1/99	3.0	2.0	67	2	3	3	---	---	---	---
Upstream of Newell St. Bridge	12/2/99	2.8	2.0	76	7	2	4	---	---	---	---
Downstream of Lyman St. Bridge	12/2/99	3.0	2.0	68	6	2	4	---	---	---	---
Upstream of Newell St. Bridge	12/3/99	2.0	2.0	80	202	2	44	---	---	---	---
Downstream of Lyman St. Bridge	12/3/99	3.0	2.0	78	247	2	45	---	---	---	---
Upstream of Newell St. Bridge	12/6/99	2.4	5.5	110	105	3	8	---	---	---	---
Downstream of Lyman St. Bridge	12/6/99	3.1	5.5	112	99	3	16	---	---	---	---
Upstream of Newell St. Bridge	12/7/99	2.6	5.0	113	3	2	3	---	---	---	---
Downstream of Lyman St. Bridge	12/7/99	3.3	5.0	110	5	2	5	---	---	---	---
Upstream of Newell St. Bridge	12/8/99	2.5	4.5	110	3	2	2	HR-12-08-99-U1	2.59	0.160	3.4
Downstream of Lyman St. Bridge	12/8/99	3.2	5.0	114	4	2	2	HR-12-08-99-D1	0.654	0.151	6.4
Upstream of Newell St. Bridge	12/9/99	2.4	4.5	106	3	1	2	---	---	---	---
Downstream of Lyman St. Bridge	12/9/99	3.2	4.5	111	3	1	3	---	---	---	---
Upstream of Newell St. Bridge	12/10/99	2.4	5.0	87	2	1	2	---	---	---	---
Downstream of Lyman St. Bridge	12/10/99	3.0	5.0	103	19	1	3	---	---	---	---
Upstream of Newell St. Bridge	12/13/99	2.3	3.5	103	4	2	4	---	---	---	---
Downstream of Lyman St. Bridge	12/13/99	3.0	3.5	103	43	7	13	---	---	---	---
Upstream of Newell St. Bridge	12/14/99	2.3	4.0	95	2	1	4	---	---	---	---
Downstream of Lyman St. Bridge	12/14/99	3.0	4.0	95	5	3	4	---	---	---	---
Upstream of Newell St. Bridge	12/15/99	2.6	4.5	108	4	3	4	---	---	---	---
Downstream of Lyman St. Bridge	12/15/99	3.3	4.5	135	23	3	10	---	---	---	---

TABLE 1A

**GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS**

**DECEMBER 1999**

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

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu)			Sample ID	Total PCB Concentration (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	12/16/99	2.8	4.5	127	7	2	5	---	---	---	
Downstream of Lyman St. Bridge	12/16/99	3.2	4.5	127	25	4	11	---	---	---	
Upstream of Newell St. Bridge	12/17/99	2.8	4.0	135	5	3	4	---	---	---	
Downstream of Lyman St. Bridge	12/17/99	3.3	4.0	139	11	3	5	---	---	---	
Upstream of Newell St. Bridge	12/18/99	2.5	2.0	---	3	2	3	---	---	---	
Downstream of Lyman St. Bridge	12/18/99	3.1	2.0	---	3	2	3	---	---	---	
Upstream of Newell St. Bridge	12/20/99	2.0	3.5	71	7	2	2	---	---	---	
Downstream of Lyman St. Bridge	12/20/99	2.7	3.5	67	4	2	3	---	---	---	
Upstream of Newell St. Bridge	12/21/99	2.4	3.5	158	6	3	6	HR-12-21-99-U1	NR	NR	
Downstream of Lyman St. Bridge	12/21/99	3.0	3.5	180	8	4	6	HR-12-21-99-D1	NR	NR	
Upstream of Newell St. Bridge	12/22/99	2.7	3.0	121	8	3	4	---	---	---	
Downstream of Lyman St. Bridge	12/22/99	3.4	3.0	133	26	4	7	---	---	---	
Upstream of Newell St. Bridge	12/23/99	3.2	2.5	104	---	---	---	---	---	---	
Downstream of Lyman St. Bridge	12/23/99	3.2	2.5	106	---	---	---	---	---	---	
Upstream of Newell St. Bridge	12/24/99	2.2	1.0	---	---	---	---	---	---	---	
Downstream of Lyman St. Bridge	12/24/99	2.9	1.0	---	---	---	---	---	---	---	
Upstream of Newell St. Bridge	12/27/99	---	---	---	4	2	2	---	---	---	
Downstream of Lyman St. Bridge	12/27/99	---	---	---	3	1	2	---	---	---	
Upstream of Newell St. Bridge	12/28/99	---	---	---	---	---	---	---	---	---	
Downstream of Lyman St. Bridge	12/28/99	---	---	---	---	---	---	---	---	---	
Upstream of Newell St. Bridge	12/29/99	---	2.0	---	4	4	4	---	---	---	
Downstream of Lyman St. Bridge	12/29/99	---	2.0	---	3	2	3	---	---	---	

TABLE 1A

**GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS**

**DECEMBER 1999**

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

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu)			Sample ID	Total PCB Concentration (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	12/30/99	2.5	2.0	---	3	2	3	---	---	---	---
Downstream of Lyman St. Bridge	12/30/99	3.4	2.0	---	9	3	5	---	---	---	---

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

TABLE 1B

**GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS**

**HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION  
DATA RECEIVED DURING DECEMBER 1999  
UPPER 1/2 MILE REACH  
(Results are presented in parts per million, ppm)**

Sample ID	Location	Date Collected	Aroclor 1016, 1221, & 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	TSS
IIR-11-23-99-U1	Upstream of Newell St. Bridge	11/23/99	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	0.000335	0.0000308	0.000366	3.6
IIR-11-23-99-U1 (FILTERED)	Upstream of Newell St. Bridge	11/23/99	ND(0.0000250)	ND(0.0000250)	0.0000340 PE	0.0000525 AF	ND(0.0000250)	0.0000865	---
IIR-11-23-99-D1	Downstream of Lyman St. Bridge	11/23/99	ND(0.0000250)	0.0000601 PD	ND(0.0000250)	0.000569 AF	0.0000369	0.000666	2.3
IIR-11-23-99-D1 (FILTERED)	Downstream of Lyman St. Bridge	11/23/99	ND(0.0000250)	ND(0.0000250)	0.0000900 PE	0.0000980 AF	ND(0.0000250)	0.000188	---
IIR-12-8-99-U1	Upstream of Newell St. Bridge	12/8/99	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	0.00227	0.000316	0.00259	3.4
IIR-12-8-99-U1 (FILTERED)	Upstream of Newell St. Bridge	12/8/99	ND(0.0000250)	ND(0.0000250)	0.0000413 PE	0.000119 AF	ND(0.0000250)	0.000160	---
IIR-12-8-99-D1	Downstream of Lyman St. Bridge	12/8/99	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	0.000595	0.0000591	0.000654	6.4
IIR-12-8-99-D1 (FILTERED)	Downstream of Lyman St. Bridge	12/8/99	ND(0.0000250)	ND(0.0000250)	0.0000400 PE	0.000111 AF	ND(0.0000250)	0.000151	---

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. PD - Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
6. PE - Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



**MONTH OF DECEMBER, 1999**

Date	Sampler Location	Average Site Concentration (mg/m <sup>3</sup> )	BM1 <sup>1</sup> (mg/m <sup>3</sup> )	Average Period (Hours:Min)	Predominant Wind Direction
11/29/1999	AM2 (south side of river)	0.008	0.006	0:30 <sup>1</sup>	WSW, WNW
11/30/1999	AM2 (south side of river)	0.004	0.004	8:15	N
12/01/1999	AM2 (south side of river)	0.003	0.007	9:15	NNW
12/02/1999	AM2 (south side of river)	0.012	0.009	9:00	Variable
12/03/1999	AM2 (south side of river)	0.016	0.017	9:45	Variable
12/06/1999 <sup>2</sup>	AM2 (south side of river)				
12/07/1999 <sup>2</sup>	AM2 (south side of river)				
12/08/1999	AM2 (south side of river)	0.011	0.007	9:30	WSW
12/09/1999	AM2 (south side of river)	0.021	NA <sup>3</sup>	9:15	Variable
12/10/1999	AM2 (south side of river)	0.041	0.041	5:30 <sup>4</sup>	SSW
12/13/1999 <sup>2</sup>	AM2 (south side of river)				
12/14/1999	AM2 (south side of river)	0.009	0.008	9:00	ENE
12/15/1999 <sup>2</sup>	AM2 (south side of river)				
12/16/1999 <sup>2</sup>	AM2 (south side of river)				
12/17/1999	AM2 (south side of river)	0.012	0.008	10:30	W
12/20/1999	AM2 (south side of river)	0.008	0.008	6:00 <sup>4</sup>	ESE
12/21/1999	AM2 (south side of river)	0.005	0.009	7:45	WNW
12/22/1999	AM2 (south side of river)	0.012	0.009	14:30 <sup>5</sup>	WNW
12/23/1999	AM2 (south side of river)	0.014	0.014	14:00 <sup>5</sup>	SW
12/24/1999	AM2 (south side of river)	0.008	0.009	6:45 <sup>5</sup>	WNW
12/27/1999	AM2 (south side of river)	0.014	0.014	9:15	WNW
12/28/1999	AM2 (south side of river)	0.012	0.010	9:15	Variable
12/29/1999	AM2 (south side of river)	0.009	0.010	9:15	W, WNW
12/30/1999	AM2 (south side of river)	0.019	0.017	9:00	SW
12/31/1999 <sup>6</sup>	AM2 (south side of river)				
Notification Level		0.120			

NA - Not Available

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

AM-2: Air monitoring location near tennis courts within Lakewood Park, southeast bank.

<sup>1</sup> Sampling period was shortened due to instrument malfunction.

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

<sup>3</sup> Sampling data was discounted due to instrument malfunction.

<sup>4</sup> Sampling period was shortened due to precipitation/threat of precipitation.

<sup>5</sup> Sampling period was adjusted to coincide with modified work schedule.

<sup>6</sup> Sampling was not performed due to the holiday.

**DECEMBER 1999 PCB AMBIENT AIR CONCENTRATIONS**  
**1/2 MILE REMOVAL ACTION**  
**PITTSFIELD, MASSACHUSETTS**  
**Table 1D**

<b>Date</b>	<b>BM-1 ug/m<sup>3</sup></b>	<b>AM-1 ug/m<sup>3</sup></b>	<b>AM-2 ug/m<sup>3</sup></b>	<b>AM-3 ug/m<sup>3</sup></b>	<b>AM-3 co-located ug/m<sup>3</sup></b>	<b>AM-4 ug/m<sup>3</sup></b>
12/20 - 12/21/99	0.0052	0.0019	0.0015	0.0023	0.0022	0.0014
Notification Level	0.05	0.05	0.05	0.05	0.05	0.05

Notes:

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

AM-1: Air monitoring location east of Bldg. 64V, near current work/staging area, northeast bank.

AM-2: Air monitoring location near tennis courts within Lakewood Park, southeast bank.

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.

TABLE 2

**GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS**

**CELL DEWATERING EFFLUENT SAMPLING  
PRIORITY POLLUTANT DATA RECEIVED DURING DECEMBER 1999  
UPPER 1/2 MILE REACH**

(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	HR-EFF-PP-1 11/22/99
<b>PCBs</b>		
Aroclor-1016		ND(0.0000250)
Aroclor-1221		0.000154 PB
Aroclor-1232		ND(0.0000250)
Aroclor-1242		ND(0.0000250)
Aroclor-1248		0.000197 AE
Aroclor-1254		ND(0.0000250)
Aroclor-1260		0.000726
Total PCBs		0.00108
<b>PCBs-Filtered</b>		
Aroclor-1016		ND(0.0000250)
Aroclor-1221		0.0000658 PB
Aroclor-1232		ND(0.0000250)
Aroclor-1242		0.0000509 PD
Aroclor-1248		ND(0.0000250)
Aroclor-1254		ND(0.0000250)
Aroclor-1260		ND(0.0000250)
Total PCBs		0.000117
<b>Volatile Organics</b>		
None Detected		--
<b>Semivolatile Organics</b>		
None Detected		--
<b>Inorganics</b>		
Lead		0.00440
Zinc		0.0240
<b>Conventional Parameters</b>		
Phenolics		0.0090

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of Priority Pollutant constituents.
2. With the exception of PCBs, only detected constituents are summarized.
3. ND(0.0000250) - Analyte was not detected. The value in parenthesis is the associated detection limit.
4. AE - Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
5. PB - Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
6. PD - Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

TABLE 3

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

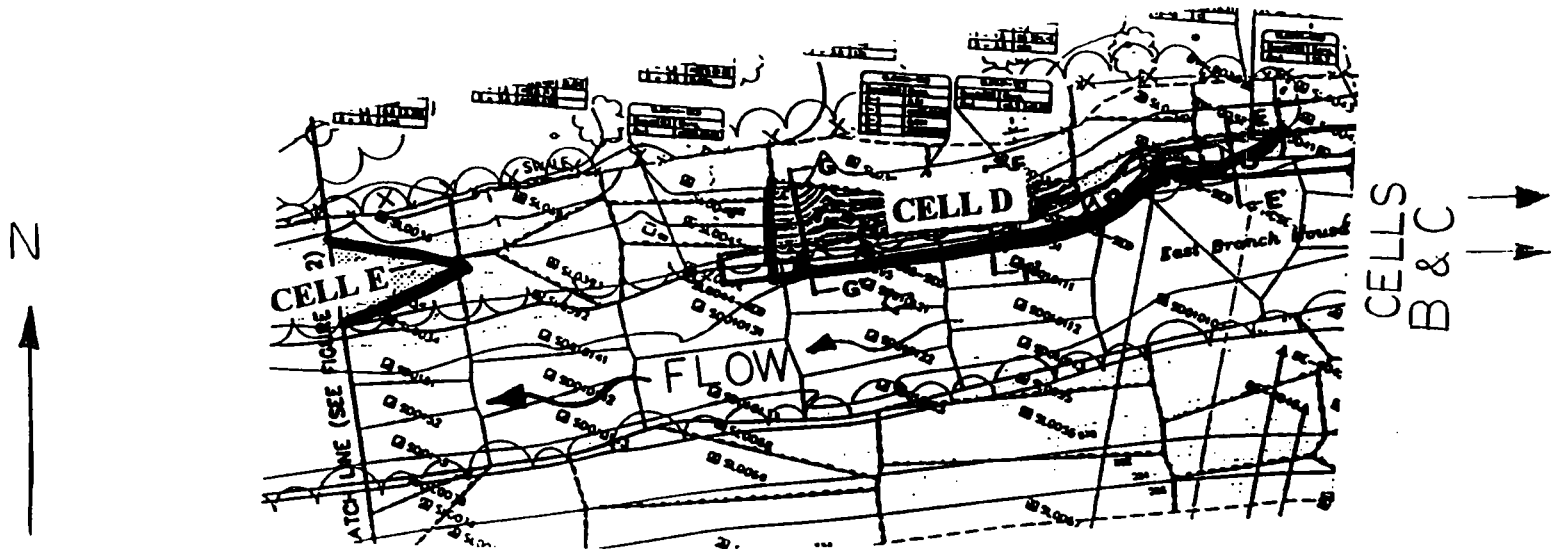
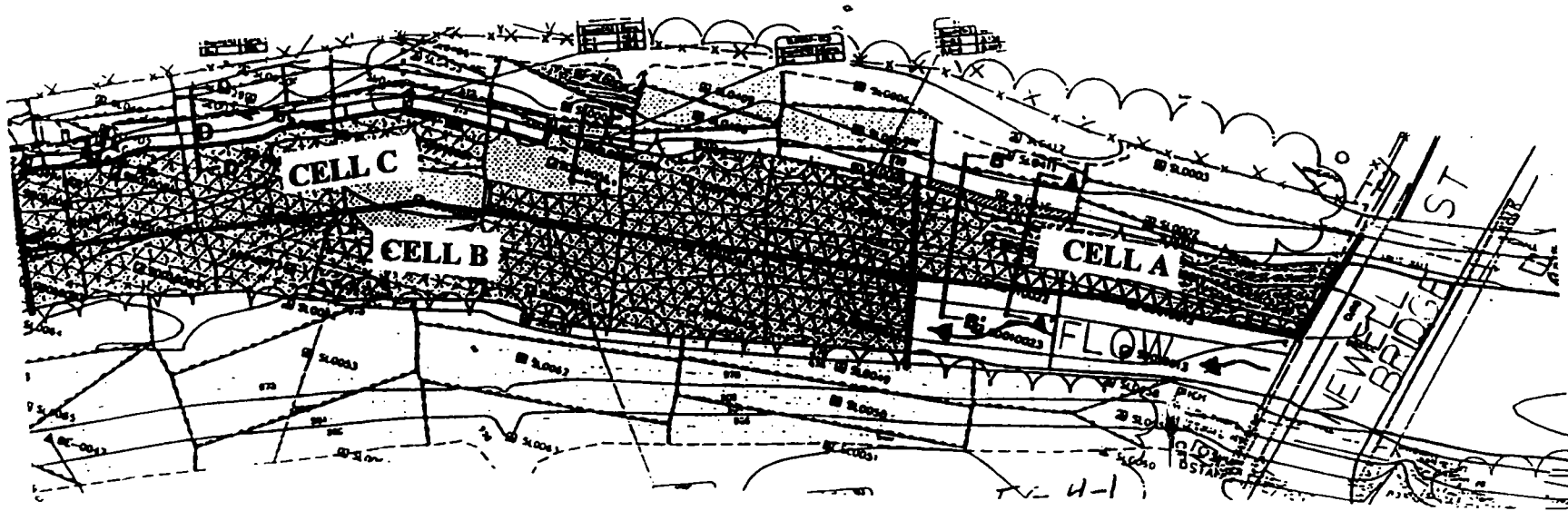
BACKFILL SOIL SAMPLING  
PCB/TPH DATA RECEIVED DURING DECEMBER 1999  
UPPER 1/2 MILE REACH  
(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (ft)	Date Collected	Total PCBs	TPH
DLT-HW-TPH-1	---	12/1/99	---	ND(100)
DLT-HW-TPH-2	---	12/1/99	---	ND(100) [ND(100)]
DLT-HW-TPH-3	---	12/1/99	---	ND(100)
DH-BF-1	0 - 1	12/8/99	ND(0.0564) [ND(0.0535)]	---
DH-BF-2	0 - 1	12/8/99	ND(0.0562)	---
WM-TS-1	0 - 0.5	12/8/99	ND(0.0638) [ND(0.0662)]	ND(110)
WM-TS-2	0 - 0.5	12/8/99	ND(0.0601)	ND(110)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of total PCBs and Total Petroleum Hydrocarbons (TPH).
2. ND(0.10) - Analyte was not detected. The value in parentheses is the associated detection limit.
3. Blind duplicate results are presented in brackets.
4. --- - Not analyzed/ Not applicable.

EXHIBIT A  
UPPER 1/2 MILE REACH REMOVAL ACTION  
LOCATION OF CELLS A, B, C, D and E FOR THE UPSREAM SECTION



**½ MILE RIVER REMOVAL ACTION  
MONTHLY PROGRESS REPORT  
DECEMBER, 1999  
FIGURE 1 PHOTO DOCUMENTATION**

**PHOTO NUMBER: 1**

**PHOTO LOCATION:** Cell A  
Looking east towards Newell Street Bridge.

**PHOTO DESCRIPTION:**  
Restoration in cell A complete.

**PHOTO DATE:** 12/07/99



**PHOTO NUMBER: 2**

**PHOTO LOCATION:**  
Looking east along north bank (upstream)

**PHOTO DESCRIPTION:** Back-filling the  
bank area adjacent to cell D, behind the  
source control (permanent) sheetpiling.

**PHOTO DATE:** 12/20/99



**PHOTO NUMBER: 3**

**PHOTO LOCATION:**  
Looking east (upstream) at cell B.

**PHOTO DESCRIPTION:** Cell B  
Restoration activities, stone placement  
on top of filter fabric and geogrid

**PHOTO DATE:** 12/24/99

