



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

Transmitted Via FedEx

March 9, 2001

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EPA New England
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Dean Tagliaferro
On Scene Coordinator
U.S. Environmental Protection Agency
c/o Weston
One Lyman Street
Pittsfield, Massachusetts 01201

Re: GE-Pittsfield/Housatonic River Site

Upper ½-Mile Reach Removal Action (GECD800) and Plant Site 1 GMA (GECD310) Cell G1 Monitoring Results and Proposed Modification to Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area (GMA1)

Dear Messrs. Olson and Tagliaferro:

On July 11, 2000, GE submitted a document entitled Results of Cell G1 DNAPL Investigation and Proposal to Address the Presence of DNAPL in Cell G1. Subsequently, by letter dated July 19, 2000, the United States Environmental Protection Agency (EPA), after consultation with the Massachusetts Department of Environmental Protection (MDEP), granted conditional approval of that proposal and requested that GE install three monitoring wells in the vicinity of the Cell G1 sheetpile containment barrier. Subsequently, on September 20, 2000, GE submitted a proposal for the installation of three monitoring wells on the landward side (i.e., north) of the containment barrier that had been installed between July and September 2000. EPA provided approval of GE's September 20, 2000 proposal by letter dated September 27, 2000. Details pertaining to the installation of the three monitoring wells are further discussed below.

On October 30, 2000, GE installed one perimeter monitoring well (HR-G1-MW1) outside the east end of the containment barrier and one well (HR-G1-MW2) between the ends of the containment barrier. The third well was not installed at that time due to ongoing removal activities in Cell G2. Following completion of Cell G2 activities, GE installed the remaining perimeter monitoring well on January 29, 2001 outside at the west end of the containment barrier (HR-G1-MW3). The surveyed locations of these three monitoring wells are shown on Figure 1. During well installation, construction details and actual field measurement were recorded. Well construction logs were developed for each well following installation and are provided as Attachment A. Well installation and development activities were performed in accordance with GE's approved Field Sampling Plan/Quality Assurance Project Plan.

Following well development, the wells were monitored on a weekly basis between January 12, 2001 and March 5, 2001 (a minimum of four weeks of monitoring including all three wells) to confirm that DNAPL was not present outside the limits of the containment barrier and to assess whether additional

investigative or response actions are appropriate. NAPL was not detected in any of the wells during this monitoring period. Additionally, water level measurements that were observed during this monitoring period indicate that groundwater mounding behind the sheetpile containment barrier is not occurring. A summary of monitoring results is provided in Table 1.

Based on the results of the initial monitoring of these wells, GE proposes certain changes to the baseline groundwater monitoring program for the Plant Site 1 Groundwater Management Area (GMA 1) as it relates to these three wells. In GE's Baseline Monitoring Program Proposal for the Plant Site 1 Groundwater Management Area, submitted to EPA in September 2000, GE proposed to include one of these three wells (which were designated as PROP-24, -25, and -26 in that proposal) as a GW-3 perimeter well to address groundwater quality downgradient of the former Thermal Oxidizer location, with the specific well to be determined after installation of the wells. That submittal also proposed to include one of these wells in the NAPL monitoring program (with the specific well to be selected after installation) and to monitor that well weekly for the presence of NAPL.

Based on the results of the initial weekly monitoring of these wells, GE has selected well HR-G1-MW3 (PROP-24 in the GMA 1 Baseline Monitoring Proposal) for inclusion in the baseline monitoring program for GMA 1, and proposes to incorporate that well into the program as a GW-3 perimeter well. This well has been selected base on its location relative to both the former Thermal Oxidizer location and the Cell G1 source control barrier wall. In addition, GE proposes to continue to monitor all three of these wells for NAPL, but (given the absence of NAPL detected to date) change the NAPL monitoring frequency of these wells to monthly. Further, since (as anticipated) groundwater mounding is not occurring in any appreciable amount in this area, additional groundwater recovery associated with the Cell G1 containment barrier is not proposed. GE will continue to evaluate the Cell G1 monitoring wells for the presence of NAPL and for potential groundwater mounding effects as part of the GMA 1 program.

If you have any questions, please feel free to contact me.

Andrew of Silfer/McG

Very truly yours,

Andrew T. Silfer, P.E. GE Project Coordinator

cc: T. Conway, EPA

H. Inglis, EPA

M. Nalipinski, EPA

A. Weinberg, MDEP

R. Bell, MDEP

S. Steenstrup, MDEP (2 copies)

S. Keydel, MDEP

C. Fredette, CT DEP

S. Messur, BBL

S. Gutter, Sidley & Austin

J. Bernstein, Bernstein, Cushner & Kimmel

J. Bieke, Shea & Gardner

R. Goff, USACE

K. Mitkevicius, USACE

D. Veilleux, Weston

N. E. Harper, MA AG

D. Young, MA EOEA

Mayor G. Doyle, City of Pittsfield

A. Thomas, GE

M. Carroll, GE

Public Information Repositories

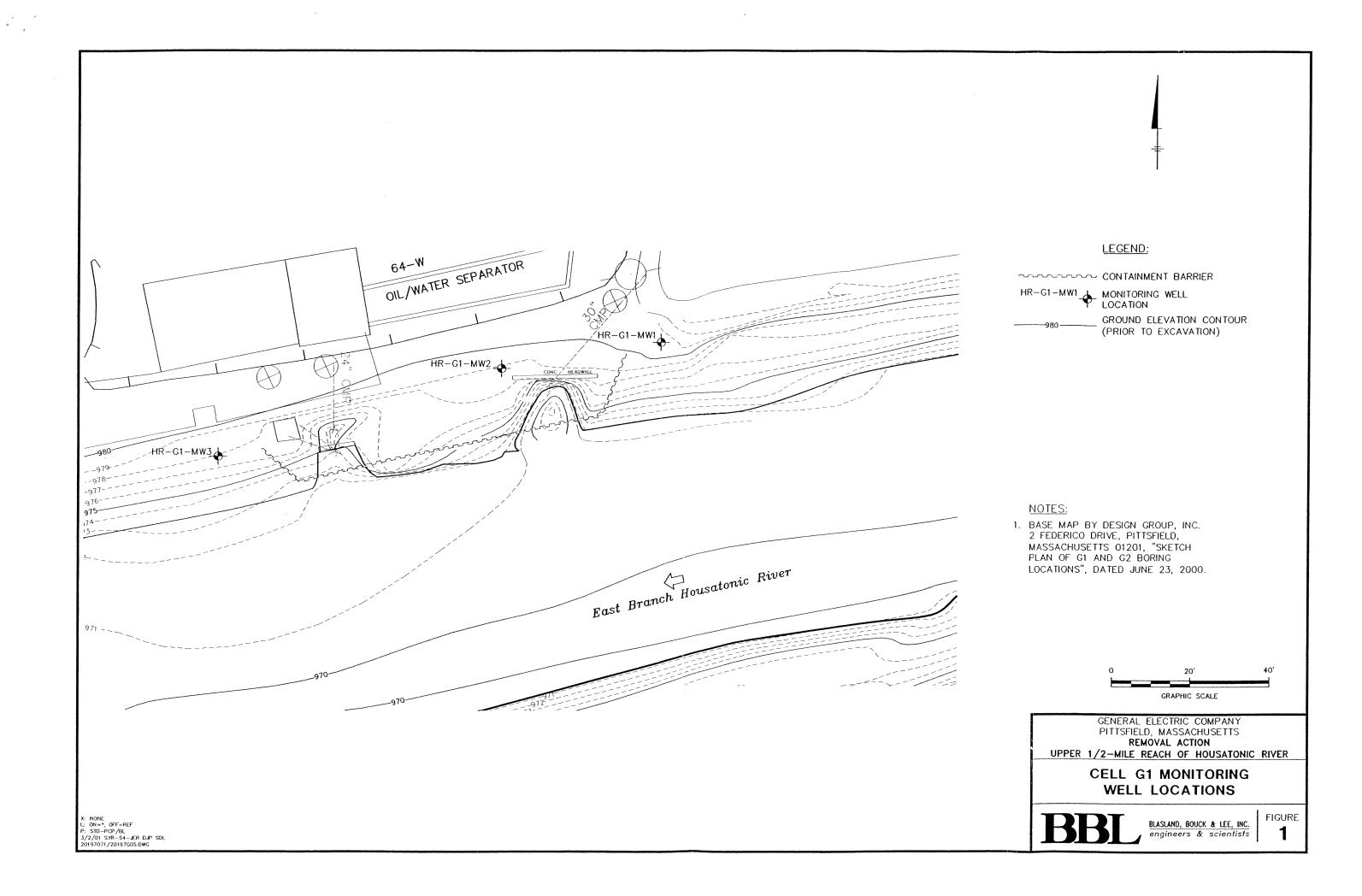


TABLE 1

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

UPPER 1/2-MILE REACH OF HOUSATONIC RIVER

CELL G-1 MONITORING RESULTS

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-G1-MW-1	1/12/01	982.42	10.66		20.35	0.00	971.76	0.00
HR-G1-MW-1	1/19/01	982.42	10.75		20.35	0.00	971.67	0.00
HR-G1-MW-1	1/24/01	982.42	10.70		20.36	0.00	971.72	0.00
HR-G1-MW-1	1/29/01	982.42	10.65		20.32	0.00	971.77	0.00
HR-G1-MW-1	2/5/01	982.42	10.47		20.36	0.00	971.95	0.00
HR-G1-MW-1	2/12/01	982.42	9.86		20.35	0.00	972.56	0.00
HR-G1-MW-1	2/19/01	982.42	10.24		20,35	0.00	972.18	0.00
HR-G1-MW-1	2/26/01	982.42	10.26		20.35	0.00	972.16	0.00
HR-G1-MW-1	3/5/01	982.42	10.40		20.35	0.00	972.02	0.00
HR-G1-MW-2	1/12/01	980.23	8.45		28.52	0.00	971.78	0.00
HR-G1-MW-2	1/19/01	980.23	8,53		28.51	0.00	971.70	0.00
HR-G1-MW-2	1/24/01	980.23	8.54		28.53	0.00	971.69	0.00
HR-G1-MW-2	1/29/01	980.23	8.46		28.53	0.00	971.77	0.00
HR-G1-MW-2	2/5/01	980.23	8.21		28.52	0.00	972.02	0.00
HR-G1-MW-2	2/12/01	980.23	7.76	***	28.52	0.00	972.47	0.00
HR-G1-MW-2	2/19/01	980.23	8.01		28.51	0,00	972.22	0.00
HR-G1-MW-2	2/26/01	980.23	8.10	***	28,51	0.00	972.13	0.00
HR-G1-MW-2	3/5/01	980.23	8.11		28.51	0.00	972.12	0.00
HR-G1-MW-3	2/5/01	980.25	8,50		17.97	0.00	971.75	0.00
HR-G1-MW-3	2/12/01	980.25	7.77		17.97	0.00	972.48	0.00
HR-G1-MW-3	2/19/01	980.25	8.23		17.96	0.00	972.02	0.00
HR-G1-MW-3	2/26/01	980.25	8.21		17.94	0.00	972.04	0.00
HR-G1-MW-3	3/5/01	980.25	8.41		17.96	0.00	971.84	0.00

Notes:

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

Attachment A

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Well Construction Logs

Date Start/Finish: 10/30/00 Drilling Company: Parratt Wolff

Driller's Name: Joel Percy & Rick Nevatica -

Drilling Method: Hollow Stem Auger

Bit Size: NA

Auger Size: 4 1/4" ID Rig Type: CME 850 ATV Sampling Method: Northing: NA Easting: NA

Casing Elevation: NA

Borehole Depth: 18.4' below grade Surface Elevation: 980.33'

Geologist: Michael Cobb

Well/Boring ID: HR-G1-MW-1

Cllent: General Electric Company

Location: Housatonic River 1/2 Mile

Cell G1 Monitoring Well Installation

DЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction		
-										4" Steel Protective Casing		
-10 g?	75-	NA .	NA .	NA .	NA	NA	NA		No Soil Sampling Conducted.	Concrete Pad (0 - 2.5' bgs) Sand Drain (2.5' - 3' bgs) Enviroplus Medium Bentonite Pellets (3' - 5.5' bgs) 2" Sch. 40 PVC Riser (2.5' ags - 7.4' bgs) 2" diameter Sch. 40 PVC 0,010" Slot Screen (7.4' - 17.4' bgs) Grade ØN Silica Filter Sand (5.5' - 18.4' bgs)		
	BLASLAND, BOUCK & LEE, INC. engineers & scientists											

Client:

General Electric Company

Site Location:

Housatonic River 1/2 Mile

Cell G1 Monitoring Well Installation

Well/Boring ID: HR-G1-MW-1

Borehole Depth: 18.4' below grade

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ОЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction	
	-	NA	NA	NA	NA	NA	NA		No Soil Sampling Conducted.	Grade ØN Silica Filter Sand (5.5' - 18.4' bgs) 2" diameter Sch. 40 PVC 0.010" Slot Screen (7.4' - 17.4' bgs)	
-20	960-									1' Sump Sch. 40 PVC (17.4' - 18.4' bgs) Female Bottom Slip Cap.	
A	-										
- 25 -	955-										
	1										
30	950-	THE THE PERSON NAMED IN TH		And the second s						_	
	1										
- 35 9	945-								Damada		
	BLASLAND, BOUCK & LEE, INC.							!	Remarks:		
	engineers & scientists										

Project: 201.97.071

Template: J:/Rockware/Logplot2001/Logfiles/20197/SB_Well.ldf

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Date Start/Finish: 10/30/00
Drilling Company: Parratt Wolf

Drilling Company: Parratt Wolff
Driller's Name: Joel Percy & Rick Nevatica
Drilling Method: Hollow Stem Auger

Drilling Method: H Bit Size: NA

Auger Size: 4 1/4" ID Rig Type: CME 850 ATV

Sampling Method: 2" Split Spoon

Northing: NA Easting: NA

Casing Elevation: NA

Borehole Depth: 26.5' below grade

Surface Elevation: 978'
Geologist: Michael Cobb

Weil/Boring ID: HR-G1-MW-2

Client: General Electric Company

Location: Housatonic River 1/2 Mile

Cell G1 Monitoring Well Installation

DEPTH FI EVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction
- 980	0-								4" Steel Protective Casing
975		NA	NA	NA	NA	NA		No Sampling/Auger to 18' bgs.	Concrete Pad (0 - 1' bgs) Cement/Bentonite Grout (1' - 11' bgs) 2" Sch. 40 PVC Riser (2.5' ags - 15.5' bgs)
- 965 15 BLA	ASLAN	D, BO	& s	cle	nt	İst	S	Remarks: PID battery dies. Headspace readings not tak	Enviroplus Medium Bentonite Peilets (11' - 13.3' bgs) Grade ØN Silica Filter Sand (13.3' - 26.5' bgs) 2" diameter Sch. 40 PVC 0.010" Slot Screen (15.5' - 25.5' bgs) en from 22'-26'.

Client:

General Electric Company

Site Location:

Housatonic River 1/2 Mile

Cell G1 Monitoring Well Installation

Well/Boring ID: HR-G1-MW-2

Borehole Depth: 26.5' below grade

ОЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction
		NA	NA	NA	NA	NA	NA		No Sampling/Auger to 18' bgs.	Grade ØN Silica Filter Sand (13.3' - 26.5' bgs)
	 960- 	1	18-20	1.8	1.8	6 9 7 7	16	0.000 n n	Gray-brown medium to coarse SAND and fine GRAVEL (angular), trace oily sheen, wet, slight odor.	
20		2	20-22	1.5	12.0	9 12 19 13	31	0000	As above, possible little black staining, odor.	2" diameter Sch. 40" PVC 0.010" Slot Screen (15.5' - 25.5' bgs)
	955	3	22-24	1.3	NA	12 9 9			Gray-brown medium SAND, some coarse Sand and fine Gravel, rounded to angular, coarsens downward. In shoe, light olive-brown SILT, soft, wet.	
- 25	-	4	24-26	1.0	NA	9 10 17 24	27		As above, grading denser, slight odor. Olive-brown fine SAND, little coarse Sand, fine angular Gravel, hard. (TILL)	1' PVC Sump (25.5'
	-									-
- 9	950-									
-	-									-
- 30	-									_
	4									
+										-
- 9	45-									
-	4									-
- 35	-									_
-		3		3					Remarks: PID battery dies. Headspace readings not tak	en from 22'-26'.

Project: 201.97.071

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BLASLAND, BOUCK & LEE, INC. engineers & scientists

Date Start/Finish: 1/29/01 **Drilling Company: Parratt Wolff**

Driller's Name: Rod Trask & Rick Nevatica

Drilling Method: Hollow Stem Auger

Bit Size: NA

Auger Size: 4 1/4" ID Rig Type: Ingersoll Rand A-300

Sampling Method:

Northing: NA Easting: NA

Casing Elevation: NA

Borehole Depth: 18' below grade Surface Elevation: 980.12'

Geologist: L. Sanders

Well/Boring ID: HR-G1-MW-3

Client: General Electric Company

Location: Housatonic River 1/2 Mile

Cell G1 Monitoring Well Installation

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DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction			
-									Steel Riser Pipe & Locking Cap J-Plug			
980= 5 975= 		NA	NA	NA	NA	X		No Soil Sampling Conducted.	Concrete Pad (0 - 1.5' bgs) Sch. 40 PVC Riser (~1.8' ags - 7' bgs) 3/8" Medium Bentonite Peilets (1.5' - 5' bgs)			
- 10 970- 									PVC 0.010" Slot Screen (7' - 17' bgs) Grade #0 Washed Quartz Sand (5' - 18' bgs)			
– 15 ₉₆₅ – BLAS	BLASLAND, BOUCK & LEE, INC.											
	engineers & scientists reject: 201.97.071 Templete: It/Reckward/Legalet2001/Legfiles/20107/SB. Mall Idf. Page: 1.0f.2											

Project: 201.97.071

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Data File:HR-G1-MW-3.dat Date2/12/01

Client:

General Electric Company

Site Location:

Housatonic River 1/2 Mile

Cell G1 Monitoring Well Installation

Well/Boring ID: HR-G1-MW-3

Borehole Depth: 18' below grade

ОЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction
		NA	NA	NA	NA	NA	NA		No Soil Sampling Conducted.	Grade #0 Washed Quartz Sand (5' - 18' bgs) 2" diameter Sch. 40 PVC 0.010" Slot Screen (7' - 17' bgs)
- 20 -	960-									1' Sump Sch. 40 PVC (17' - 18' bgs)
	-									
- 25 -	955-								·	
30	- 950-	and the second s		And the second s						-
	-	and the second s								
- 35	945-									
	BLASLAND, BOUCK & LEE, INC. engineers & scientists								Remarks:	