GE
159 Plastics Avenue
Pittsfield, MA 01201
USA

Transmitted via Overnight Courier

December 20, 2005

Mr. William P. Lovely, Jr.
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Re: GE-Pittsfield/Housatonic River Site
Newell Street Area II (GECD450)
Subsurface Investigation Summary Report

Dear Mr. Lovely:

Between September 15 and November 22, 2005, in response to the discovery of buried drums and capacitors during ongoing soil remediation activities, the General Electric Company (GE) conducted several subsurface investigations within the Newell Street Area II Removal Action Area (RAA) located in Pittsfield, Massachusetts (Figure 1). These investigations consisted of: 1) non-intrusive geophysical surveys, including electromagnetic (EM), magnetometer, and ground penetrating radar (GPR); and 2) test trenching activities. Proposals for the geophysical surveys and test trenching activities were presented to the U.S. Environmental Protection Agency (EPA) in letters from GE dated September 6, 2005 and October 31, 2005, respectively. These documents were conditionally approved by the EPA in letters to GE dated September 14, 2005 (geophysical surveys) and November 9, 2005 (test trenching activities). This *Subsurface Investigation Summary Report* summarizes the results of the completed geophysical surveys and test trenching activities.

A. Non-Intrusive Geophysical Surveys

This section summarizes the geophysical surveys that were conducted at Newell Street Area II between September 15 and October 11, 2005. In accordance with GE's September 6, 2005 proposal and EPA's September 14, 2005 conditional approval letter, these surveys were conducted at Parcel J9-23-8 and those areas west of that parcel (other than Parcel I9-7-1) where soil excavation activities were previously proposed by GE and approved by EPA. These surveys used multiple geophysical techniques that in combination can identify areas where drums and/or other objects may be present in subsurface materials. This multi-technique survey approach was implemented to produce several data sources to account for potential interferences (i.e., power lines, fences, etc.) and limitations associated with the individual techniques. The geophysical methods included EM and magnetometer surveys to assess the potential presence of metallic objects in the subsurface, and GPR to provide radar images of the subsurface anomalies identified by the EM and magnetometer surveys. A summary of the geophysical surveys was previously included in GE's October 31, 2005 test trenching proposal. A more detailed discussion of these surveys and findings is provided below.

EM Survey Procedures and Results

The EM survey was performed between September 15 and September 19, 2005 using a Geonics EM-61 time-domain metal detector equipped with a digital data logger and a Trimble AG-132 Global Positioning System (GPS). This technique allows for the differentiation of subsurface metallic objects from surface features which could otherwise interfere with the survey (i.e., buildings, power lines, and fences). The operation of this instrument is based on the emission, or pulse, of a time-varying magnetic field generated from an alternating current at the transmitter. After each pulse, secondary electromagnetic fields are induced briefly into the earth, and for a longer time in metallic targets. Between each pulse, the EM-61 pauses until the response from the earth dissipates and then measures the prolonged response received from buried metallic objects in millivolts (mV). Due to uneven topography within the site (resulting from the ongoing soil excavation work), data were collected using both manual and survey wheel modes of collection.

The EM-61 response represents the potential for surface and buried metal to be located within the upper 15 feet of subsurface materials within the survey area. The survey was performed using a maximum grid spacing of approximately 10 feet to provide coverage across the investigation area. The survey area and EM data points are shown on Figure 2.

EM data from the bottom coil (also known as Channel 2), and the top coil (Channel 1) were used to calculate the differential (Channel D) response, which is one of most common methods of interpretation of EM data (Geonics, 1995). The Channel D data are calculated by the EM data reduction program (DAT61MK2, version 2.20, 2004) in the following manner:

Channel D = k * (Channel 1 – Channel 2).

Where:

- D is the differential output in millivolts (mV)
- Channel 1 is the output from the top coil in mV
- Channel 2 is the output from the bottom coil in mV, and
- k is a depth coefficient normally set to 1

Anomalies were identified in the investigation area by mapping the Channel D response onto the site plan, thus generating a series of response contours. These results are shown on Figure 3. In general, areas with a Channel D response of 100mV or greater or with negative response values below -300 mV were considered elevated. Certain of these identified anomalies were attributable to the presence of the above-ground (fences, high tension towers) and below-ground (storm and sanitary sewers) site features containing various types of metal. Data generated during these activities are provided on Compact Disk No. 1 (Attachment A).

Magnetometer Survey Procedures and Results

The magnetometer survey was performed to detect buried ferrous metal objects. The magnetometer operates on the principle of measuring the earth's magnetic field and deviations in this field caused by the presence of ferrous metal objects. The intensity and variation caused by such objects are affected by the depth and mass of the buried object and, to a lesser degree, the orientation of the object. The magnetometer survey was performed on September 20, 2005, using a Geometrics G-858 portable cesium magnetometer equipped with a Trimble AG-132 GPS.

The magnetometer was calibrated (adjusted) to a value of 31,500 nanoTeslas (nT) before survey activities began to account for the earth's magnetic field in the project area. A base station measurement location was established northeast of the investigation area to determine the daily fluctuations (diurnal) in the earth's magnetic field during the field survey. Base station measurements were collected every 40 minutes (on average) using the same Geonics G-856 magnetometer, with the resulting field data corrected for diurnal variations. These measurements are presented in Table 1.

The field survey was performed using an approximate 10-foot grid system established over north and south investigation areas as shown on Figure 4. The start and end points of the survey lines in both areas were surveyed using a differential GPS. The Trimble AG-132 GPS provided location data for the magnetometer during the survey, while magnetometer readings were collected at one second intervals along the survey lines. Data were recorded and stored in the memory of the magnetometer with the associated GPS location data. Base station measurements were recorded during the field survey to correct for diurnal variation during the field survey. The corrected field data for both grid areas (north and south) are included in a table provided in Compact Disk No. 1 (Attachment A).

The corrected total magnetic field measurements were plotted and contoured to evaluate magnetic anomalies representative of buried ferrous metal. The magnetometer data were processed and corrected for diurnal variation using MAGMAP 2000, Version 4.2b (Geometrics, 2001). The corrected total field data were contoured using Surfer, Version 8.00 (Golden Software, 2002), and are shown on Figure 5.

In general, areas with a total field response above 54,000 nT or below 51,500 nT were interpreted as elevated and having the greatest likelihood of containing ferrous metal. As with the EM survey, several magnetic anomalies were attributable to above-ground (fences, high tension towers) and below-ground (storm and sanitary sewers) site features containing ferrous metal. These anomalies and their associated site features are shown on Figure 5.

Ground-Penetrating Radar Survey Procedures and Results

Based on the results of the EM and magnetometer surveys, GE, in consultation with EPA, identified four target areas (all located on Parcel J9-23-8) within the overall survey areas as appropriate for the performance of the GPR survey. The objective of the GPR survey was to further assess anomalies identified during the EM and magnetometer surveys. The GPR survey target areas were presented to EPA and are shown on Figures 3, 5, 6, and 7.

GPR equipment transmits high frequency electromagnetic waves into the ground and detects energy reflected back to the surface. Energy is reflected along subsurface interfaces that possess different electrical properties. Reflections typically occur at lithologic contacts or when the electromagnetic waves encounter subsurface materials having high electrical contrasts, including metal objects such as underground storage tanks, drums, and utility pipes. These reflections are detected by the antenna and processed into an electrical signal, which can then be used to image the subsurface feature.

The GPR survey was performed between October 6 and October 11, 2005, using a Subsurface Interfacing Radar (SIR) System-2000, manufactured by Geophysical Survey Systems, Inc. (GSSI). The equipment consisted of:

1. A 200-megahertz (MHz) antenna;

2. A digital control unit equipped with a color monitor; and

3. A 12-volt power supply and survey wheel/cart.

Initial calibration of the GPR system and antenna was performed using subsurface soil boring information and observed response of the analog signal. Calibration of the 200 MHz antenna was completed using the GSSI 200 D setting, adjusting the range and dielectric constant parameters to the approximate subsurface conditions at the site. Using a range of 70 to 80 nanoseconds (nS), and a dielectric constant of 12, the observed depth penetration of the GPR signal was approximately 8 to 12 feet below ground surface (bgs) over the site.

A temporary control grid was established over the four target survey areas and referenced to the site plan using a baseline established from site features. Once established, the four survey areas were staked and later located using differential GPR survey methods. GPR survey lines were located at intervals of approximately 10 feet in Area 1, and at intervals of approximately 5 feet in Areas 2, 3, and 4. Line locations for the GPR survey in these areas are shown on Figure 6. A total of 31 GPR survey lines were completed in Area 1, with survey lines varying in length from approximately 23 to 170 feet. Survey Areas 2, 3, and 4 were smaller in size, with four to six GPR lines per area that ranged in length from approximately 20 to 65 feet. The GPR data were reviewed in real time on the color monitor and stored in the digital control unit.

The GPR survey data were evaluated using RADAN for Windows NT, Version 4.0. Post-processing of the data was limited to gain adjustments and filtering (background removal) when necessary. The GPR data were printed for each survey line, and subsurface features of interest (if present) were marked on these profiles. These GPR profiles are provided as bitmap images on Compact Disk No. 2 (Attachment B) with this report. A summary of the subsurface features identified on the GPR profiles is presented in Table 2 and summarized on Figure 7.

B. Completed Test Trenching Activities

This section summarizes the test trenching activities that were conducted in portions of Parcel J9-23-8 between November 10 and November 22, 2005. These activities were conducted in accordance with GE's October 31, 2005 test trenching proposal and EPA's November 9, 2005 letter conditionally approving that proposal. The scope of test trenching activities was developed based on the results of the geophysical surveys described above, as well as input provided by EPA, to better understand the nature of the detected subsurface anomalies identified by the geophysical surveys and to determine whether such anomalies were indicative of buried drums. In total, test trenching activities included the excavation of 18 trenches totaling approximately 1,000 linear feet. Trench locations are shown by number (i.e., Test Trenches 1 through 18) on Figures 3, 5, 7, and 8. These trenches were all excavated in areas where soil removal had already been performed and which had not yet been backfilled.

Information recorded during test trenching activities is provided on a trench-by-trench basis on Tables 3 through 20. Such information includes the following:

- Date, start/stop time, trench number, and equipment used;
- Trench dimensions – i.e., overall length, width, and depth;
- Depth to groundwater, if encountered;
- Visual observations of the materials excavated from each trench, including type, approximate in-situ location/depth, and related observations;
- Visual observations of the sidewalls and end walls (for instances when this information was able to be safely obtained given the depth of the trench);

- Observations of any drums, capacitors, or drum/capacitor parts encountered, including specific location within the trench, depth, and quantity; and
- Observations of other objects (including locations and depths) that could have contributed to the anomalies identified during the geophysical surveys.

The above information was recorded at various stations along each trench. Each station associated with a particular trench is identified on Tables 3 through 20. The location of each station is shown on Figure 8. Note that in all cases, since the test trenching activities were performed in areas that had previously been excavated as part of the soil remediation, the information included in the summary tables (concerning the depths of the trenches and corresponding observations) is relative to subgrade conditions resulting from those completed excavations (rather than relative to the original surface grade). For example, the 0- to 2-foot depth increment notation in the test trench summary tables refers to that increment beginning at the top of the trench and extending downward a depth of 2 feet.

Generally, each trench was advanced vertically downward until groundwater or native materials were encountered. Once the trench was completed, certain excavated soils and other materials were placed back into the trench in accordance with EPA's conditional approval letter of the test trenching proposal, and with concurrence from EPA's on-site representative; these materials were placed at the approximate location and depth from which they were removed. All other materials were stockpiled adjacent to the trench on top of and covered by polyethylene sheeting and will be subject to appropriate off-site disposal. In instances where additional fill material was necessary to backfill test trenches, clean fill was used to complete backfilling activities.

As indicated on Tables 3 through 20, drums and/or capacitors were observed in 16 of the 18 test trenches. Specifically, drums were observed in 11 trenches while capacitors were observed in 14 trenches. Generally, the depth at which these materials were observed ranged from 0.8 feet to approximately 3.5 feet below the top of the trench. A total of 83 drums or drum carcasses were removed during test trenching activities. Of these drums, one was observed to contain free liquid and was therefore overpacked and sent to GE's on-plant hazardous waste storage facility for characterization of its contents to facilitate the appropriate off-site disposal of this drum. A summary of the drum and capacitor observations is provided in Table 21.

C. Future Activities

GE is currently arranging for the appropriate off-site disposal of the above-referenced materials that were not placed back into the trenches. GE is also currently arranging for the appropriate off-site disposal of the above-referenced overpacked drum.

Based on the findings of the completed activities as described above, GE is currently developing a proposed scope of additional removal activities within Parcel J9-23-8 and will discuss those activities with EPA.

Please contact me if you have questions or comments concerning the activities described above.

Sincerely,

A. T. Silfer/acc

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

Attachments
V:\GE_Pittsfield_CD_Newell_St_Area_II\Reports and Presentations\Subsurface Rpt 12-05\74052196Ltr.doc

cc: Dean Tagliaferro, EPA*
Tim Conway, EPA
Holly Inglis, EPA
Rose Howell, EPA
K.C. Mitkevicius, USACE
Linda Palmieri, Weston
Anna Symington, MDEP
Robert Bell, MDEP
Susan Steenstrup, MDEP (2 copies)*
Thomas Angus, MDEP
Mayor James Ruberto, City of Pittsfield
Pittsfield Commissioner of Public Health
Nancy E. Harper, MA AG
Dale Young, MA EOEA
Paul Dowd, Western Mass. Electric Co.
Michael Carroll, GE
Richard Gates, GE
Rod McLaren, GE
James Nuss, BBL*
James Bieke, Goodwin Procter
Samuel Gutter, Sidley Austin Brown & Wood
John Ciampa, SPECTRA
Public Information Repositories
GE Internal Repositories

(with attached disks)*

Tables

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

TABLE 1
SUMMARY OF MAGNETOMETER BASE STATION DATA

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Date	Time	X-Coordinate	Y-Coordinate	Reading	Line	Mark
09/20/05	13:03:30	-73.2348725	42.44852995	52910.2	18	3
09/20/05	13:50:30	-73.2348725	42.44852995	52878.6	--	--
09/20/05	14:40:30	-73.2348725	42.44852995	52964	--	--
09/20/05	15:25:30	-73.2348725	42.44852995	52938.6	--	--
09/20/05	16:15:30	-73.2348725	42.44852995	52975	--	--
09/20/05	17:07:30	-73.2348725	42.44852995	53001.7	--	--
09/20/05	17:32:30	-73.2348725	42.44852995	52965.6	--	--
09/20/05	18:20:30	-73.2348725	42.44852995	52962.1	--	--
09/20/05	18:50:30	-73.2348725	42.44852995	52990.4	--	--

TABLE 2
SUMMARY OF GPR DATA BY AREA

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Area 1

Line Number	GPR File Number	Interpreted Features	Location (ft)					
			Along Line			Approx. Depth		
0	123	None	--	To	--	--	To	--
10	124	Metal Debris	25	To	30	5	To	6
10	124	Metal Debris	40	To	45	5	To	6
20	125	Metal Debris	19	To	29	5	To	6
30	126	Buried Metal Debris	27	To	34	1.5	To	6
40	127	Metal Debris	30	To	40	1.5	To	6
50	128	Metal Debris	35	To	50	2	To	5
50	136	None	--	To	--	--	To	--
60	129	Metal Debris	20	To	50	3	To	6
60	137	Metal Debris	54	To	56	2	To	3
70	138	Shallow Metal	3	To	20	1	To	1.5
70	130	Metal Debris	50	To	30	1.5	To	6
80	131	Metal Debris	22	To	28	1.5	To	6
80	131	Metal Debris	40	To	50	1.5	To	6
80	139	Shallow Metal Debris	50	To	75	1.5	To	3
N1	132	Metal Debris	5	To	60	4	To	8
N1	132	Metal Debris	70	To	85	4	To	8
N2	133	Metal Debris	50	To	20	2	To	6
N2	134	Metal Debris	20	To	0	2	To	6
N3	135	Metal Debris	10	To	20	1.5	To	5
N3	135	Metal Debris	50	To	55	1.5	To	5
90	140	Metal Debris	0	To	35	1.5	To	6.5
100	141	Metal Debris - (possible intact drum @ 22 ft, 1.5 ft deep)	20	To	35	1.5	To	6
110	144	Possible Metal Debris Along Line (Gains High)	--	To	--	--	To	--
120	145	Metal Debris	38	To	40	5	To	6
120	145	Metal Debris	0	To	30	5	To	6
130	146	Poor Data (noisy)	NA	To	NA	NA	To	NA
130	147	Poor Data (noisy)	NA	To	NA	NA	To	NA
140	148	Poor Data (noisy)	NA	To	NA	NA	To	NA
150	149	Numerous Metal Targets	0	To	74	3	To	6
150	149	Scattered Metal Debris	80	To	125	2	To	6.5
160	150	Metal Debris (inside excavation)	53	To	82	2	To	6
160	150	Metal Debris with Possible Targets	0	To	47	1.5	To	7
170	151	Metal Debris	0	To	15	1.5	To	6
170	151	Metal Debris	35	To	48	1.5	To	6
170	151	Shallow Metal Debris (in excavation)	55	To	95	1	To	3
170	151	Shallow Metal Debris	125	To	140	1	To	3
180	152	Numerous Metal Targets	135	To	158	2	To	7
180	152	Numerous Metal Targets	60	To	100	2	To	7
180	152	Numerous Metal Targets	0	To	47	2	To	6
190	153	Metal Debris	0	To	30	2	To	6
190	154	Metal Debris with Possible Targets (in excavation)	75	To	110	3	To	6
190	155	Shallow Metal Debris (access road)	135	To	170	1	To	3
200	157	Metal Debris with Possible Targets (in excavation)	--	To	--	--	To	--
200	158	Metal Debris with Possible Targets (in excavation)	70	To	115	2	To	7
200	158	Metal Debris with Possible Targets (access road)	130	To	155	5	To	7.5
210	159	Metal Debris with Possible Targets (in excavation)	55	To	85	2	To	7
210	159	Metal Debris with Possible Targets (access road)	120	To	142	1.5	To	6.5
220	160	Metal Debris with Possible Targets (in excavation)	40	To	90	2	To	7
220	160	Metal Debris with Possible Targets (access road)	100	To	128	5	To	8

TABLE 2
SUMMARY OF GPR DATA BY AREA

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Area 1 Continued

Line Number	GPR File Number	Interpreted Features	Location (ft)	
			Along Line	Approx. Depth
230	161	Metal Debris with Possible Targets (in excavation)	35 To 75	2 To 7
230	161	Metal Debris with Possible Targets (access road)	95 To 113	3 To 7
240	162	Metal Debris with Possible Targets (access road)	83 To 92	5 To 7
250	163	No Data	-- To	To
260	163	Metal Debris with Possible Targets (in excavation)	20 To 50	2 To 7
270	164	Metal Debris with Possible Targets	5 To 37	3 To 7

Area 2

Line Number	GPR File Number	Interpreted Features	Location (ft)	
			Along Line	Approx. Depth
0	166	Metal Debris with Targets	0 To 40	2 To 6
5	167	Metal Debris with Targets	0 To 40	2 To 6
10	169	Metal Debris with Targets	10 To 50	2 To 6
15	170	Metal Debris (shallow)	10 To 50	1 To 3
15	170	Metal Debris with Targets	10 To 50	4 To 5
20	171	Metal Debris (shallow)	10 To 20	1 To 3
25	172	Metal Debris with Targets	10 To 40	3 To 6

Area 3

Line Number	GPR File Number	Interpreted Features	Location (ft)	
			Along Line	Approx. Depth
0	173	None	-- To --	-- To --
5	174	Scattered Metal Debris	3 To 3	3 To 6
5	174	Scattered Metal Debris	15 To 15	3 To 6
10	175	Scattered Metal Debris	10 To 15	1.5 To 4
15	176	Metal Debris with Targets	0 To 20	1.5 To 6
20	178	Metal Debris	12 To 19	3 To 6
25	179	None	-- To --	-- To --

Area 4

Line Number	GPR File Number	Interpreted Features	Location (ft)	
			Along Line	Approx. Depth
0	180	Fill Material with Metal Debris	25 To 45	3 To 5
5	--	No Data (blank @ 5ft)	-- To --	-- To --
10	181	Shallow Metal Debris	10 To 45	1 To 3
15	182	Fill Material with Metal Debris	30 To 65	3 To 5

Summary

Area	Average Depth (ft)
1	2.45 To 5.97
2	2.14 To 5
3	2.4 To 5.6
4	2.33 To 4.33

Notes:
1. NA - Not Available
2. -- - Not Applicable

TABLE 3
SUMMARY OF OBSERVATIONS AT TEST TRENCH 1

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/10/05 - 12:30**
		Surface Elevation Range:	**979.58 to 979.88**	**End Time:**	**11/10/05 - 15:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**37, 2.5, 8.5**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	Few capacitors uncovered in the 0- to 0.8-foot interval. Material present below this interval appeared to be native.
0	-	9	Layer of capacitors in the 0- to 0.8-foot interval terminates. Material does not look native, but contains no capacitors.
9	-	12	The 0- to 3-foot interval consists primarily of non-native fill material. No capacitors at this interval.
12	-	17	Fill material extends to the 0- to 5-foot interval, but contains no capacitors.
17	-	24	Active sewer main encountered.
24	-	29	Fill/non-native material encountered around a portion of the active sewer main.
29	-	31	Non-native fill material tapers up to the 0- to 4-foot interval. No capacitors in this general area.
31	-	37	End of trench.

Notes:

1. Ground water observed 8.5 feet below top of trench.
2. In general, native soils were observed six feet below ground surface.
3. Excavated soils were segregated in three (3) foot intervals (i.e., 0'-3', 3'-6', and 6'-8.5'). Soils were replaced to the same intervals from which they were removed.
4. Capacitors removed from this trench were sorted and placed with stockpiled capacitor-containing soils from other trenches awaiting characterization and disposal.

TABLE 4
SUMMARY OF OBSERVATIONS AT TEST TRENCH 2

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/14/05 - 10:30**
		Surface Elevation Range:	**980.00 to 980.87**	**End Time:**	**11/14/05 - 13:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**95, 2.5, 8.5**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	Capacitors uncovered in the 0- to 2-foot interval. The 2- to 3-foot interval consists primarily of non-native grey sand/silt, but contains no capacitors. The 3- to 6-foot interval consists primarily of non-native material, but contains no capacitors. Native sand located below six feet.
0	-	8	Capacitor layer continues in the 0- to 2-foot interval. Fill includes capacitor parts.
8	-	15	The 0- to 2-foot interval contains capacitor parts and miscellaneous metal objects.
15	-	20	The 0- to 2-foot interval contains capacitor parts and miscellaneous metal objects.
20	-	26	Drum parts uncovered in the 0- to 3-foot interval. The 3- to 6-foot interval contains fill material, but no signs of drums or capacitors. Fill material consists primarily of concrete and metal debris.
26	-	28	One (1) drum uncovered in the 0- to 3-foot interval. The 3- to 6-foot interval consists primarily of miscellaneous concrete and steel fill.
28	-	33	Drum parts found in the 0- to 3-foot interval. No capacitors found in this interval, in this location.
33	-	42	One (1) drum uncovered in the 0- to 3-foot interval. The 3- to 6-foot interval consists primarily of miscellaneous concrete and metal fill. The 6- to 8-foot interval is native sand. No capacitors found in 0- to 3-foot or 3- to 6-foot intervals.
42	-	45	Two (2) drums uncovered in the 0- to 3-foot interval.
45	-	50	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
50	-	55	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
55	-	60	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
60	-	65	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
65	-	70	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
70	-	75	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
75	-	80	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.

TABLE 4
SUMMARY OF OBSERVATIONS AT TEST TRENCH 2

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/14/05 - 10:30**
		Surface Elevation Range:	**980.00 to 980.87**	**End Time:**	**11/14/05 - 13:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**95, 2.5, 8.5**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
80	-	85	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
85	-	90	The 0- to 3-foot interval consists primarily of fill containing a variety of metal and drum parts. The 3- to 6-foot interval consists primarily of non-native material containing concrete and miscellaneous steel. The 6- to 8-foot interval is native sand.
90	-	95	End of trench.

Notes:

1. Ground water observed 8.5 feet below top of trench.
2. Native soils found six feet below top of trench.
3. Four (4) drums uncovered in the 0- to 3-foot interval during trenching activities. None of the drums were observed to contain free liquids.

TABLE 5
SUMMARY OF OBSERVATIONS AT TEST TRENCH 3

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/14/05 - 13:30**
		Surface Elevation Range:	**979.57 to 979.68**	**End Time:**	**11/14/05 - 15:00**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**27, 2.5, 5.5**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 3-foot interval contains capacitors, capacitor parts, and other miscellaneous metal parts. Material is non-native in nature. The 3- to 5.5-foot interval is native sand.
0	-	10	The 0- to 3-foot interval contains capacitors, capacitor parts, and other miscellaneous metal parts. Material is non-native in nature. The 3- to 5.5-foot interval is native sand.
10	-	20	The 0- to 3-foot interval contains capacitors, capacitor parts, and other miscellaneous metal parts. Material is non-native in nature. The 3- to 5.5-foot interval is native sand.
20	-	25	The 0- to 3-foot interval contains capacitors, capacitor parts, and other miscellaneous metal parts. Material is non-native in nature. The 3- to 5.5-foot interval is native sand.
25	-	27	The 0- to 3-foot interval contains capacitors, capacitor parts, and other miscellaneous metal parts. Material is non-native in nature. The 3- to 5.5-foot interval is native sand.

Notes:
1. Ground water observed 5.5 feet below top of trench.
2. All capacitors uncovered along entire stretch of trench in the 0- to 3-foot interval.

TABLE 6
SUMMARY OF OBSERVATIONS AT TEST TRENCH 4

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/15/05 - 08:15**
		Surface Elevation Range:	**979.84 to 980.77**	**End Time:**	**11/15/05 - 12:00**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**88, 2.5, 8**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 3.5-foot interval contains capacitors, capacitor parts, miscellaneous steel/metal, and insulators. The 3.5- to 6-foot interval consists primarily of fill material without any capacitors. Native brown sand located at six feet.
0	-	9	One (1) drum uncovered in the 0- to 3.5-foot interval. Interval contains capacitors and miscellaneous metal debris. The 3.5- to 6-foot interval is stained black and contains various pieces of metal and concrete. No capacitors found in this interval.
9	-	17	Five (5) drums uncovered in the 0- to 3.5-foot interval. Capacitors uncovered in this interval. The 3.5- to 6-foot interval is stained black and contains concrete and brick. The 6- to 8-foot interval is native sand.
17	-	24	Four (4) drums uncovered in the 0- to 3.5-foot interval. Capacitor parts found in this interval.
24	-	28	Two (2) drums uncovered in the 0- to 3.5-foot interval. The 3.5- to 6-foot interval contains non-native black-stained material.
28	-	31	Three (3) drums uncovered in the 0- to 3.5-foot interval. Capacitors found in this interval.
31	-	37	One (1) drum uncovered in the 0- to 3.5-foot interval . Capacitors and various metal objects found in this interval. The 3.5- to 6-foot interval consists primarily of fill.
37	-	47	Two (2) drums uncovered in the 0- to 3.5-foot interval. The 3.5- to 6-foot interval consists primarily of fill.
47	-	60	Capacitors and capacitor parts uncovered in the 0- to 3.5-foot interval.
60	-	70	Five (5) drums uncovered in the 0- to 3.5-foot interval. The 3.5- to 6-foot interval contains miscellaneous concrete and metal. No drums or capacitors observed.
70	-	80	Three (3) drums uncovered in the 0- to 3.5-foot interval. No capacitors found in this interval.
80	-	88	The 0- to 3.5-foot interval consists primarily of fill material. No drums or capacitors observed. The 3.5- to 6-foot interval is dark and contains non-native fill material. The 6- to 8-foot interval is native sand with ground water at eight feet. End of trench.

Notes:
1. Ground water observed eight feet below top of trench.
2. Twenty-six (26) drums uncovered and several capacitors in the 0- to 3.5-foot interval during trenching activities. None of the drums were observed to contain free liquids.
3. One (1) drum observed in the sidewalls of trench near ground surface during trenching activitites.
4. No drums or capacitors found deeper than 3.5 feet below top of trench.

TABLE 7
SUMMARY OF OBSERVATIONS AT TEST TRENCH 5

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/15/05 - 12:45**
		Surface Elevation Range:	**979.38 to 979.58**	**End Time:**	**11/15/05 - 15:00**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**61, 2.5, 8**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 3-foot interval is non-native with no capacitors or drums. Material is sandy and grey/silver in color. The 3- to 6-foot interval consists primarily of non-native fill. Material contains miscellaneous metal and ceramic matter. The 6- to 7-foot interval consists primarily of non-native fill with woody material and entire interval is stained black. The 7- to 7.5-foot interval consists primarily of a layer of organic peat. The 7.5- to 8-foot interval is native green sand.
0	-	10	The 0- to 3-foot interval is non-native with no capacitors or drums. Material is sandy and grey/silver in color. The 3- to 6-foot interval consists primarily of non-native fill. Material contains miscellaneous metal and ceramic matter. The 6- to 7-foot interval consists primarily of non-native fill with woody material and entire interval is stained black. The 7- to 7.5-foot interval consists primarily of a layer of organic peat. The 7.5- to 8-foot interval is native green sand.
10	-	20	The 0- to 3-foot interval is non-native with no capacitors or drums. Material is sandy and grey/silver in color. The 3- to 6-foot interval consists primarily of non-native fill. Material contains miscellaneous metal and ceramic matter. The 6- to 7-foot interval consists primarily of non-native fill with woody material and entire interval is stained black. The 7- to 7.5-foot interval consists primarily of a layer of organic peat. The 7.5- to 8-foot interval is native green sand.
20	-	23	Capacitors uncovered in the 0- to 2-foot interval. Surrounding material is sandy and grey/silver in color. The 2- to 6-foot interval consists primarily of non-native fill. Material contains miscellaneous metal and ceramic matter. The 6- to 7-foot interval consists primarily of non-native fill with woody material and entire interval is stained black. The 7- to 7.5-foot interval consists primarily of a layer of organic peat. The 7.5- to 8-foot interval is native green sand.
23	-	28	Capacitors uncovered in the 0- to 2-foot interval. Surrounding material is sandy and grey/silver in color. The 2- to 6-foot interval consists primarily of non-native fill. Material contains miscellaneous metal and ceramic matter. The 6- to 7-foot interval consists primarily of non-native fill with woody material and entire interval is stained black. The 7- to 7.5-foot interval consists primarily of a layer of organic peat. The 7.5- to 8-foot interval is native green sand.
28	-	38	Capacitors uncovered in the 0- to 3-foot interval. The 6- to 7-foot interval is no longer stained black. The material in this interval is non-native, but no drums or capacitors found.
38	-	50	Capacitors uncovered in the 0- to 3-foot interval. The 6- to 7-foot interval is no longer stained black. The material in this interval is non-native, but no drums or capacitors found.

TABLE 7
SUMMARY OF OBSERVATIONS AT TEST TRENCH 5

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/15/05 - 12:45**
		Surface Elevation Range:	**979.38 to 979.58**	**End Time:**	**11/15/05 - 15:00**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**61, 2.5, 8**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
50	-	55	Capacitors uncovered in the 0- to 2-foot interval. The 2- to 4-foot interval consists primarily of a non-native fill. The 4- to 6-foot interval consists primarily of fine brown sand with no trace of fill material. The 6- to 7-foot interval is green native sand.
55	-	61	Capacitors uncovered in the 0- to 2-foot interval. The 2- to 4-foot interval consists primarily of a non-native fill. The 4- to 6-foot interval consists primarily of fine brown sand with no trace of fill material. The 6- to 7-foot interval is green native sand. End of trench.

Notes:
1. No drums uncovered during trenching activities.

TABLE 8
SUMMARY OF OBSERVATIONS AT TEST TRENCH 6

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/22/05 - 09:45**
		Surface Elevation Range:	**978.41 to 979.57**	**End Time:**	**11/22/05 - 10:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**84, 2.5, 9**
				On-Site Observer:	**Andy Roberts**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 3-foot interval consists primarily of a grey/green gravel fill. The 3- to 8-foot interval consists primarily of a black-stained fill material. The 8- to 9-foot interval is native green sand.
0	-	20	The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 3-foot interval consists primarily of a grey/green gravel fill. The 3- to 8-foot interval consists primarily of a black-stained fill material. The 8- to 9-foot interval is native green sand.
20	-	31	Drums uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill. The 3- to 8-foot interval consists primarily of a black-stained fill material. The 8- to 9-foot interval is native green sand.
31	-	40	The 0- to 2-foot interval consists primarily of a grey ash. The 2- to 3-foot interval consists primarily of a rust-colored fill. The 3- to 7-foot interval consists primarily of a grey/green fill. The 7- to 8-foot interval is native green sand.
40	-	60	The 0- to 1-foot interval consists primarily of a grey ash. The 1- to 3.5-foot interval consists primarily of a rust-colored fill. The 3.5- to 6-foot interval consists primarily of a grey/green fill. The 6- to 7-foot interval is native green sand.
60	-	65	The 0- to 3.5-foot interval consists primarily of a rust-colored fill. The 3.5- to 4-foot interval consists primarily of a grey/green fill. The 4- to 5-foot interval is native green sand.
65	-	70	The 0- to 3.5-foot interval consists primarily of a rust-colored fill. The 3.5- to 4-foot interval is native green sand.
70	-	84	The 0- to 3.5-foot interval consists primarily of a rust-colored fill. The 3.5- to 4-foot interval is native green sand. End of trench.

Notes:
1. Four (4) drums uncovered in the 0- to 3-foot interval during trenching activities. None of the drums were observed to contain free liquids.
2. Two (2) drums observed in the sidewalls of the trench in the 0- to 3-foot interval during trenching activities.

TABLE 9
SUMMARY OF OBSERVATIONS AT TEST TRENCH 7

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/18/05 - 12:30**
		Surface Elevation Range:	**980.26 to 980.93**	**End Time:**	**11/18/05 - 14:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**72, 2.5, 7**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	One (1) drum uncovered in the 0- to 1.5-foot interval. The 0- to 1.5-foot interval consists primarily of a rust-colored fill.
0	-	4	One (1) drum uncovered in the 0- to 1.5-foot interval.
4	-	15	The 0- to 4-foot interval consists primarily of a grey/silver sand fill. The 4- to 7-foot interval consists primarily of a grey/brown gravel fill. Native green sand located at seven feet.
15	-	20	The 0- to 4-foot interval consists primarily of a grey/silver sand fill. The 4- to 7-foot interval consists primarily of a grey/brown gravel fill. Native green sand located at seven feet.
20	-	40	The 0- to 4-foot interval consists primarily of a grey/silver sand fill. The 4- to 7-foot interval consists primarily of a grey/brown gravel fill. Native green sand located at seven feet.
40	-	45	Capacitors uncovered in the 0- to 1-foot interval. Capacitors observed in both sidewalls to a distance of 65 feet in the 1- to 1.5-foot interval.
45	-	52	Product observed coming out of eastern trench wall perched in the 6- to 7-foot interval.
52	-	60	Capacitors uncovered in the 0- to 1.5-foot interval with rust-colored fill. The 1.5- to 3-foot interval consists primarily of a silver/grey sand fill. The 3- to 7-foot interval consists primarily of a green/brown gravel fill. Native material observed at seven feet.
60	-	72	The 0- to 3-foot interval consists primarily of silver/grey sand. The 3- to 7-foot interval consists primarily of a brown/grey gravel fill. Native material observed at seven feet. End of trench.

Notes:

1. Two (2) drums uncovered in the 0- to 1.5-foot interval during trenching activities. None of the drums were observed to contain free liquids.
2. One (1) drum observed in the sidewalls of trench near ground surface during trenching activitites.
3. Capacitors observed between distances 45 and 65 in the 0- to 1.5-foot interval during trenching activities.

TABLE 10
SUMMARY OF OBSERVATIONS AT TEST TRENCH 8

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/21/05 - 12:44**
		Surface Elevation Range:	**979.40 to 980.21**	**End Time:**	**11/21/05 - 13:40**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**80, 2.5, 8.5**
				On-Site Observer:	**Andy Roberts**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	Several drums and capacitors uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill material. Perched ground water observed at three feet. The 3- to 7-foot interval consists primarily of a grey/green gravel fill material. The 7- to 8.5-foot interval is native green sand.
0	-	20	Several drums and capacitors uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill material. Perched ground water observed at three feet. The 3- to 7-foot interval consists primarily of a grey/green gravel fill material. The 7- to 8.5-foot interval is native green sand.
20	-	30	Capacitors uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill material. Perched ground water observed at three feet. The 3- to 7-foot interval consists primarily of a grey/green gravel fill material. The 7- to 8.5-foot interval is native green sand.
30	-	50	Capacitors uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill material. Perched ground water observed at three feet. The 3- to 7-foot interval consists primarily of a grey/green gravel fill material. The 7- to 8.5-foot interval is native green sand.
50	-	60	Several drums and capacitors uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill material. Perched ground water observed at three feet. The 3- to 7-foot interval consists primarily of a grey/green gravel fill material. The 7- to 8.5-foot interval is native green sand.
60	-	70	Capacitors uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill material. Perched ground water observed at three feet. The 3- to 7-foot interval consists primarily of a grey/green gravel fill material. The 7- to 8.5-foot interval is native green sand.
70	-	80	Capacitors uncovered in the 0- to 3-foot interval. The 0- to 3-foot interval consists primarily of a rust-colored fill material. Perched ground water observed at three feet. The 3- to 7-foot interval consists primarily of a grey/green gravel fill material. The 7- to 8.5-foot interval is native green sand. End of trench.

Notes:

1. Fourteen (14) drums uncovered in the 0- to 3-foot interval during trenching activities. One drum encountered in trench required overpacking. None of the other drums were observed to contain free liquids
2. Capacitors observed throughout the entire 0- to 3-foot interval during trenching activities.
3. Perched ground water observed three feet below top of trench.

TABLE 11
SUMMARY OF OBSERVATIONS AT TEST TRENCH 9

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/22/05 - 08:15**
				End Time:	**11/22/05 - 08:30**
		Surface Elevation:	**979.77**	**Trench Dimensions**	
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**(length, width, depth) (feet):**	**31, 2.5, 9.5**
				On-Site Observer:	**Andy Roberts**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 5-foot interval consists primarily of a grey/green silt and gravel material with miscellaneous construction debris. The 5- to 9-foot interval consists primarily of a grey/green gravel fill. The 9- to 9.5-foot interval is native green sand.
0	-	10	The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 5-foot interval consists primarily of a grey/green silt and gravel material with miscellaneous construction debris. The 5- to 9-foot interval consists primarily of a grey/green gravel fill. The 9- to 9.5-foot interval is native green sand.
10	-	20	Several drums uncovered in the 0- to 2-foot interval. The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 5-foot interval consists primarily of a grey/green silt and gravel material with miscellaneous construction debris. The 5- to 9-foot interval consists primarily of a grey/green gravel fill. The 9- to 9.5-foot interval is native green sand.
20		25	Several drums and capacitors uncovered in the 0- to 2-foot interval. The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 5-foot interval consists primarily of a grey/green silt and gravel material with miscellaneous construction debris. Perched product observed in the 5- to 6-foot interval. The 5- to 9-foot interval consists primarily of a grey/green gravel fill. The 9- to 9.5-foot interval is native green sand.
25	-	31	Capacitors uncovered in the 0- to 2-foot interval. The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 5-foot interval consists primarily of a grey/green silt and gravel material with miscellaneous construction debris. The 5- to 9-foot interval consists primarily of a grey/green gravel fill. The 9- to 9.5-foot interval is native green sand. End of trench.

Notes:
1. Four (4) drums uncovered in the 0- to 2-foot interval during trenching activities. None of the drums were observed to contain free liquids.

TABLE 12
SUMMARY OF OBSERVATIONS AT TEST TRENCH 10

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/17/05 - 14:00**
		Surface Elevation Range:	**978.74 to 979.11**	**End Time:**	**11/17/05 - 15:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**54, 2.5, 4**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	Capacitors observed at grade. Capacitors uncovered in the 0- to 2-foot interval due to water. Due to water in the trench, additional excavation within trench could not be performed.
0	-	10	Capacitors observed at grade. Capacitors uncovered in the 0- to 2-foot interval due to water. Due to water in the trench, additional excavation within trench could not be performed.
10	-	14	Capacitors no longer visable at the surface. Capacitors uncovered in the 0- to 2-foot interval. The 0- to 1-foot interval consists primarily of a grey/silver sand fill. The 1- to 2-foot interval consists primarily of a dark brown fill material. The 2- to 4-foot interval consists primarily of a grey/green gravel fill.
14	-	20	Capacitors uncovered in the 0- to 2-foot interval. The 0- to 1-foot interval consists primarily of a grey/silver sand fill. The 1- to 2-foot interval consists primarily of a dark brown fill material. The 2- to 4-foot interval consists primarily of a grey/green gravel fill.
20	-	30	Capacitors uncovered in the 0- to 2-foot interval. The 0- to 1-foot interval consists primarily of a grey/silver sand fill. The 1- to 2-foot interval consists primarily of a dark brown fill material. The 2- to 4-foot interval consists primarily of a grey/green gravel fill.
30	-	40	Capacitors uncovered in the 0- to 2-foot interval. The 0- to 1-foot interval consists primarily of a grey/silver sand fill. The 1- to 2-foot interval consists primarily of a dark brown fill material. The 2- to 4-foot interval consists primarily of a grey/green gravel fill.
40	-	50	Capacitors uncovered in the 0- to 2-foot interval. The 0- to 1-foot interval consists primarily of a grey/silver sand fill. The 1- to 2-foot interval consists primarily of a dark brown fill material. The 2- to 4-foot interval consists primarily of a grey/green gravel fill.
50	-	54	End of trench.

Notes:
1. Due to amount of water entering the trench, native material could not be reached.
2. No capacitors observed deeper than two feet below top of trench.

TABLE 13
SUMMARY OF OBSERVATIONS AT TEST TRENCH 11

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/18/05 - 08:00**
		Surface Elevation Range:	**980.63 to 981.94**	**End Time:**	**11/18/05 - 11:15**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**95, 2.5, 12**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	Several drums and capacitors uncovered in the 0- to 1-foot interval with a rust-colored fill. The 1- to 7-foot interval consists primarily of grey/green silt and gravel fill. Native green sand encountered at seven feet and ground water encountered at approximately 7.5 feet.
0	-	20	Several drums and capacitors uncovered in the 0- to 1-foot interval with a rust-colored fill. The 1- to 7-foot interval consists primarily of grey/green silt and gravel fill. Native green sand encountered at seven feet and ground water encountered at approximately 7.5 feet.
20	-	30	Several drums and capacitors uncovered in the 0- to 1-foot interval with a rust-colored fill. The 1- to 7-foot interval consists primarily of grey/green silt and gravel fill. Native green sand encountered at seven feet and ground water encountered at approximately 7.5 feet.
30	-	40	Drums and capacitors uncovered in the 0- to 3-foot interval with a rust-colored fill. The 3- to 8.5-foot interval consists primarily of grey/green silt and gravel fill. The 8.5- to 9-foot interval is native green sand.
40	-	60	Drums and capacitors uncovered in the 0- to 6-foot interval with a rust-colored fill. The 6- to 11.5-foot interval consists primarily of grey/green silt and gravel fill. The 11.5- to 12-foot interval is native green sand.
60	-	80	Drums and capacitors uncovered in the 0- to 3-foot interval with a rust-colored fill. The 3- to 8.5-foot interval consists primarily of grey/green silt and gravel fill. The 8.5- to 9-foot interval is native green sand.
80	-	90	Drums and capacitors uncovered in the 0- to 3-foot interval with a rust-colored fill. The 3- to 8.5-foot interval consists primarily of grey/green silt and gravel fill. The 8.5- to 9-foot interval is native green sand.
90	-	95	Drums and capacitors uncovered in the 0- to 3-foot interval with a rust-colored fill. The 3- to 8.5-foot interval consists primarily of grey/green silt and gravel fill. The 8.5- to 9-foot interval is native green sand. End of trench.

Notes:
1. Ground water observed 7.5 feet below top of trench.
2. Eighteen (18) drums uncovered in the 0- to 3-foot interval during trenching activities. None of the drums were observed to contain free liquids.
3. Rusted capacitors uncovered in the 0- to 3-foot interval during trenching activities.

TABLE 14
SUMMARY OF OBSERVATIONS AT TEST TRENCH 12

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/17/05 - 12:30**
		Surface Elevation Range:	**979.09 to 979.73**	**End Time:**	**11/17/05 - 14:00**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**58, 2.5, 6**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 1.5-foot interval consists primarily of a grey sand fill. Capacitors uncovered in the 1.5- to 3-foot interval. The 1.5- to 5-foot interval consists primarily of a black-stained fill material. The 5- to 6-foot interval is native material with perched ground water at five feet.
0	-	9	Capacitors uncovered in the 0- to 3-foot interval.
9	-	10	Capacitors uncovered in the 0- to 3-foot interval. The 0- to 1.5-foot interval consists primarily of a grey sand fill. The 1.5- to 5-foot interval consists primarily of a black-stained fill material.
10	-	20	Capacitors no longer observed in the 0- to 3-foot interval and becomes a mix of grey sand from 0- to 1.5-feet and dark fill from 1.5- to 3-feet.
20	-	30	The 0- to 1.5-foot interval consists primarily of a grey sand fill and the 1.5- to 3-foot interval consists primarily of a black-stained fill material.
30	-	40	The 0- to 1.5-foot interval consists primarily of a grey sand fill and the 1.5- to 3-foot interval consists primarily of a black-stained fill material.
40	-	50	The 0- to 1.5-foot interval consists primarily of a grey sand fill and the 1.5- to 3-foot interval consists primarily of a black-stained fill material.
50	-	58	The 0- to 1.5-foot interval consists primarily of a grey sand fill and the 1.5- to 3-foot interval consists primarily of a black-stained fill material. End of trench

Notes:
1. Perched ground water observed five feet below top of trench.
2. Capacitors uncovered in the 0- to 3-foot interval during trenching activities. No capacitors observed deeper than three feet below top of trench.

TABLE 15
SUMMARY OF OBSERVATIONS AT TEST TRENCH 13

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/17/05 - 08:00**
		Surface Elevation Range:	**981.54 to 981.92**	**End Time:**	**11/17/05 - 09:15**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**43, 2.5, 9.5**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 3.5-foot interval consists primarily of a dark-colored metal-containing fill. The 3.5- to 7.5-foot interval consists primarily of a light brown fill material with brick and miscellaneous metal. The 7.5- to 9.5-foot interval is native green sand.
0	-	10	The 0- to 3.5-foot interval consists primarily of a dark-colored metal-containing fill. The 3.5- to 7.5-foot interval consists primarily of a light brown fill material with brick and miscellaneous metal. The 7.5- to 9.5-foot interval is native green sand.
10	-	20	The 0- to 3.5-foot interval consists primarily of a dark-colored metal-containing fill. The 3.5- to 7.5-foot interval consists primarily of a light brown fill material with brick and miscellaneous metal. The 7.5- to 9.5-foot interval is native green sand.
20	-	28	Three (3) drums uncovered in the 0- to 3-foot interval.
28	-	30	One (1) drum uncovered in the 0- to 3-foot interval. The 3- to 7.5-foot interval consists primarily of a light brown fill material with brick, concrete, and metal debris. The 7.5- to 9.5-foot interval is native green sand.
30	-	40	The 0- to 3.5-foot interval consists primarily of a dark brown metal-containing fill. The 3.5- to 7.5-foot interval consists primarily of a light brown fill material with brick, concrete, and metal debris. The 7.5- to 9.5-foot interval is native green sand.
40	-	43	End of trench.

Notes:
1. Four (4) drums uncovered in the 0- to 3-foot interval during trenching activities. None of the drums were observed to contain free liquids.
2. No capacitors uncovered during trenching activities.

TABLE 16
SUMMARY OF OBSERVATIONS AT TEST TRENCH 14

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/16/05 - 09:00**
		Surface Elevation Range:	**979.80 to 980.38**	**End Time:**	**11/16/05 - 10:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**25, 2.5, 6**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	Capacitors uncovered in the 0- to 1-foot interval with a non-native grey sand. The 1- to 4.5-foot interval consists primarily of non-native sand and gravel fill and has a very stong odor. The 4.5- to 6-foot interval is green native sand.
0	-	2	One (1) drum uncovered in the 0- to 3-foot interval. Several capacitors removed from this interval.
2	-	8	One (1) drum uncovered in the 0- to 3-foot interval. No capacitors observed.
8	-	10	The non-native grey sand runs out in the 0- to 1-foot interval and becomes a brown fill material. No drums or capacitors observed. The 1- to 2-foot interval consists primarily of non-native brown sand and gravel. The 2- to 3-foot interval consists primarily of a green/brown sand.
10	-	25	The non-native grey sand runs out in the 0- to 1-foot interval and becomes a brown fill material. No drums or capacitors observed. The 1- to 2-foot interval consists primarily of non-native brown sand and gravel. The 2- to 3-foot interval consists primarily of a green/brown sand. End of trench.

Notes:

1. Two (2) drums and several capacitors uncovered in the 0- to 3-foot interval during trenching activities. None of the drums were obsereved to contain free liquids.
2. Capacitors uncovered were very degraded.
3. Perched ground water observed 4.5 feet below top of trench.

TABLE 17
SUMMARY OF OBSERVATIONS AT TEST TRENCH 15

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/16/05 - 14:30**
		Surface Elevation Range:	**979.89 to 979.93**	**End Time:**	**11/16/05 - 15:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**20, 2.5, 7**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 4-foot interval consists primarily of brown/green sand and gravel fill. Thin layer of peat observed at four feet with perched ground water. The 4- to 7-foot interval is native green sand.
0	-	9	The 0- to 4-foot interval consists primarily of brown sand and gravel fill. Thin layer of peat observed at four feet with perched ground water. The 4- to 7-foot interval is native green sand.
9	-	20	The 0- to 4-foot interval consists primarily of brown sand and gravel fill. Thin layer of peat observed at four feet with perched ground water. The 4- to 7-foot interval is native green sand.

Notes:
1. Perched ground water observed four feet below top of trench.

TABLE 18
SUMMARY OF OBSERVATIONS AT TEST TRENCH 16

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/16/05 - 12:30**
		Surface Elevation Range:	**979.69 to 979.98**	**End Time:**	**11/16/05 - 13:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**58, 2.5, 7.5**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	Capacitors and capacitor parts uncovered in the 0- to 1-foot interval. The 1- to 5-foot interval consists primarily of a black/green stained fill material. No capacitors uncovered in this interval. The 5- to 5.5-foot interval contains material resembling peat. Perched ground water observed above this layer. The 5.5- to 7.5-foot interval is native black/green-stained sand.
0	-	10	Capacitors and capacitor parts uncovered in the 0- to 1-foot interval. The 1- to 5-foot interval consists primarily of a black/green stained fill material. No capacitors uncovered in this interval. The 5- to 5.5-foot interval contains material resembling peat. Perched ground water observed above this layer. The 5.5- to 7.5-foot interval is native black/green-stained sand.
10	-	20	The 0- to 1-foot interval consists primarily of a rust-colored metal fill. The 1- to 3.5-foot interval consists primarily of a black-stained miscellaneous fill material. The 3.5- to 4-foot interval consists primarily of peat with perched ground water above it. The 4- to 7-foot interval is native green sand.
20	-	23	The 0- to 1-foot interval consists primarily of a rust-colored metal fill. The 1- to 3.5-foot interval consists primarily of a black-stained miscellaneous fill material. The 3.5- to 4-foot interval consists primarily of peat with perched ground water above it. The 4- to 7-foot interval is native green sand.
23	-	30	One (1) drum uncovered in the 0- to 2-foot interval. The 0- to 1-foot interval consists primarily of a rust-colored metal fill. The 1- to 2-foot interval is native brown sand.
30	-	40	The 0- to 1-foot interval consists primarily of a rust-colored metal fill. The 1- to 2-foot interval is native brown sand.
40	-	42	Native brown sand found at surface.
42	-	50	Native brown sand found at surface.
50	-	58	Native brown sand found at surface. End of trench.

Notes:
1. One (1) drum uncovered in the 0- to 2-foot interval during trenching activities. Free liquids were not observed in the drum.
2. Perched ground water observed five feet below top of trench.

TABLE 19
SUMMARY OF OBSERVATIONS AT TEST TRENCH 17

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/16/05 - 13:30**
		Surface Elevation Range:	**980.41 to 980.62**	**End Time:**	**11/16/05 - 14:30**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**40, 2.5, 2**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 2-foot interval is native brown sand.
0	-	10	The 0- to 2-foot interval is native brown sand.
10	-	20	The 0- to 2-foot interval is native brown sand.
20	-	30	The 0- to 2-foot interval is native brown sand.
30	-	40	The 0- to 2-foot interval is native brown sand. End of trench.

Notes:
1. No capacitors/fill/drums uncovered during trenching activities.

TABLE 20
SUMMARY OF OBSERVATIONS AT TEST TRENCH 18

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Project Name:	**Newell Street Area II**	**Contractor:**	**D.A. Collins**	**Start Time:**	**11/16/05 - 07:30**
		Surface Elevation Range:	**980.66 to 980.77**	**End Time:**	**11/16/05 - 09:00**
Location:	**Pittsfield, Massachusetts**	**Equipment:**	**CAT 320C**	**Trench Dimensions (length, width, depth) (feet):**	**24, 2.5, 4**
				On-Site Observer:	**Paul Filippetti**

Station (ft)			***Summary of Visual Observations***
From		***To***	
0	-	0	The 0- to 2-foot interval consists primarily of a rust-colored fill. No capacitors uncovered in this interval. Fill consists primarily of brick and miscellaneous metal. The 2- to 4-foot interval is stained black, but appears to be native. Native green sand present below four feet.
0	-	10	The 0- to 2-foot interval consists primarily of a rust-colored fill. No capacitors uncovered in this interval. Fill consists primarily of brick and miscellaneous metal. The 2- to 4-foot interval is stained black, but appears to be native. Native green sand present below four feet.
10	-	12	One (1) drum uncovered in the 0- to 2-foot interval and one (1) drum observed in sidewall. The 2- to 3-foot interval consists primarily of a peat layer with perched ground water. The 3- to 4-foot interval is native green sand.
12	-	16	Two (2) drums uncovered in the 0- to 2-foot interval. The 2- to 3-foot interval consists primarily of a peat layer with perched ground water. The 3- to 4-foot interval is native green sand.
16	-	19	One (1) drum uncovered in the 0- to 2-foot interval and one (1) drum observed in sidewall.
19	-	24	The 0- to 2-foot interval consists primarily of a rust-colored fill. The 2- to 3-foot interval consists primarily of a peat layer. The 3- to 4-foot interval is a native green sand. End of trench.

Notes:
1. Perched ground water observed three feet below top of trench.
2. Four (4) drums uncovered in the 0- to 2-foot interval during trenching activities. None of the drums were observed to contain free liquids.
3. Two (2) drums observed in the sidewalls of trench in the 0- to 2-foot interval during trenching activities.
4. No capacitors were uncovered during trenching activities.

TABLE 21
SUMMARY OF TEST TRENCH RESULTS

NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Trench Number	Capacitors Encountered ? (Yes / No) (depth in feet)	Number of Drum(s) Removed (depth in feet)
1	Yes (0-0.8')	NONE
2	Yes (0-2')	4 (0-3')
3	Yes (0-3')	NONE
4	Yes (0-3.5')	26 (0-3.5')
5	Yes (0-3')	NONE
6	No	4 (0-3')
7	Yes (0-1.5')	2 (0-1.5')
8	Yes (0-3')	14 (0-3')
9	Yes (0-2')	4 (0-2')
10	Yes (0-2')	NONE
11	Yes (0-6')	18 (0-6')
12	Yes (0-3')	NONE
13	No	4 (0-3')
14	Yes (0-3')	2 (0-3')
15	No	NONE
16	Yes (0-1')	1 (0-2')
17	No	NONE
18	No	4 (0-2')

Note:
1. The majority of drums encountered contained no free liquid; therefore, no overpacking required. One drum encountered at trench number 8 required overpacking.

Figures

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

REMOVAL ACTION AREA:

NEWELL STREET AREA II

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS. ADDITIONALLY, CONSTRUCTION PLANS PROVIDED BY GENERAL ELECTRIC COMPANY WERE USED.
2. SITE BOUNDARIES ARE APPROXIMATE.
3. NOT ALL PHYSICAL FEATURES SHOWN.

0 500' 1000'
GRAPHIC SCALE

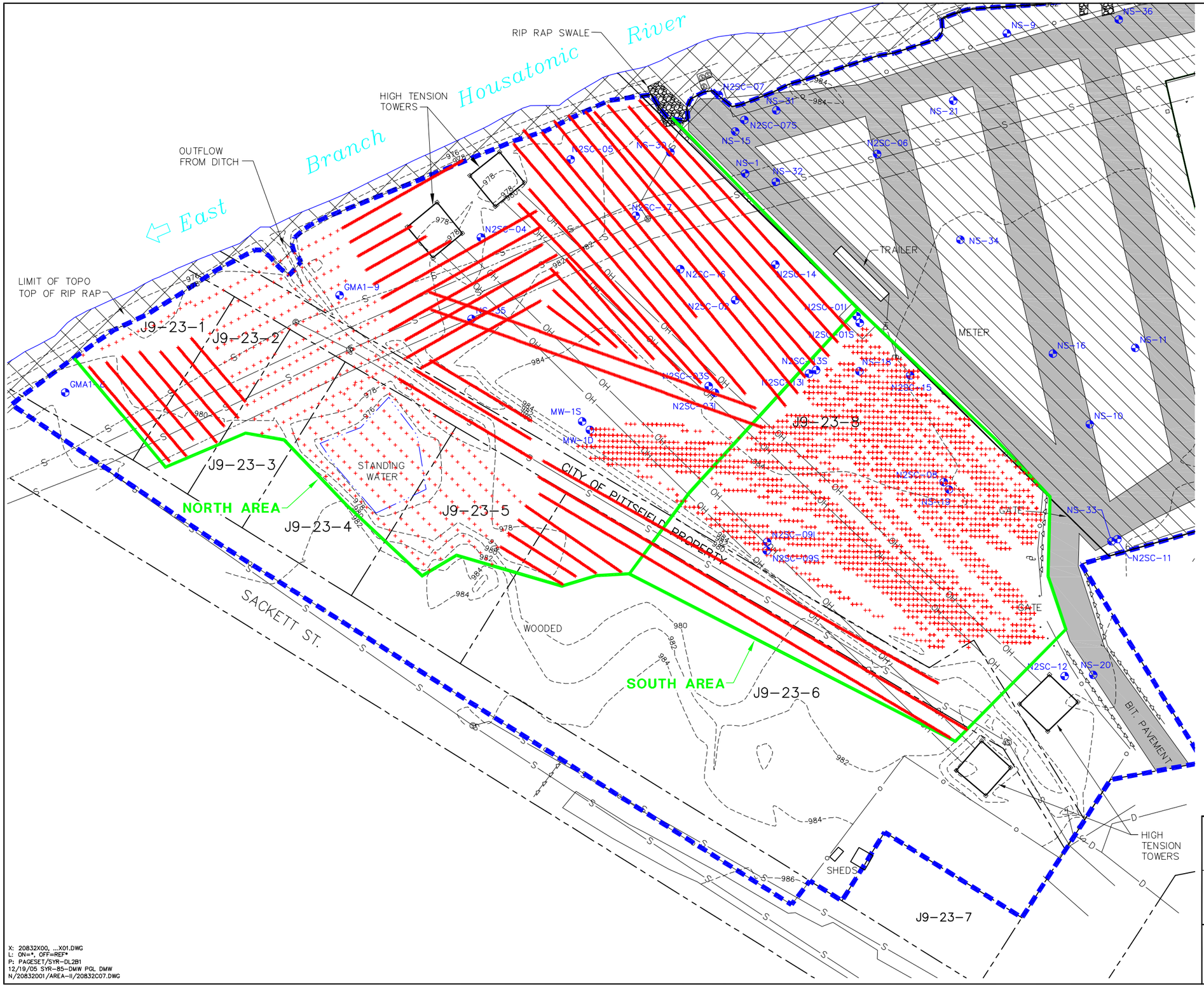
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II – SUBSURFACE INVESTIGATION SUMMARY REPORT

REMOVAL ACTION AREA

BBL BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 1

X: 20832X04.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20832B01.DWG



LEGEND:

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-8 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- S ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- 980 INDEX ELEVATION CONTOUR
- 982 INTERMEDIATE ELEVATION CONTOUR
- SANITARY MANHOLE
- UTILITY POLE
- PAVED (ASPHALT/CONCRETE)
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH
- AREA SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER IN ACCORDANCE WITH THE CONSENT DECREE AND STATEMENT OF WORK
- NS-18 MONITORING WELL LOCATION AND CORRESPONDING ID
- GPS DATA POINT LOCATION
- EM61 SURVEY LINE – WHEEL MODE (0.6 FT DATA INTERVAL)

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND ALL UTILITIES MAY NOT BE SHOWN.
3. EM61 SURVEY ACTIVITIES PERFORMED BETWEEN SEPTEMBER 15 AND SEPTEMBER 19, 2005.

0 30' 60'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II – SUBSURFACE INVESTIGATION SUMMARY REPORT

EM61 SURVEY - SURVEY LINE AND DATA POINT LOCATIONS

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 2

X: 20832X00, ...X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20832C07.DWG

RIP RAP SWALE

Housatonic River

Branch

East

HIGH TENSION TOWERS

ANOMALY DUE TO HIGH TENSION TOWERS

OUTFLOW FROM DITCH

ANOMALY DUE TO SANITARY SEWER LINE

LIMIT OF TOPO

TOP OF RIP RAP

J9-23-1

J9-23-2

J9-23-3

J9-23-4

J9-23-5

J9-23-6

J9-23-7

J9-23-8

STANDING WATER

CITY OF PITTSFIELD PROPERTY

SACKETT ST.

WOODED

ANOMALY DUE TO SANITARY SEWER LINE

TRAILER

METER

GATE

GATE

ANOMALY DUE TO FENCE AND GUARDRAIL

BIT. PAVEMENT

SHEDS

HIGH TENSION TOWERS

GMA1-9

GMA1-8

N2SC-05

N2SC-12

N2SC-04

N2SC-16

N2SC-14

N2SC-02

N2SC-01I

N2SC-01S

N2SC-13S

N2SC-13I

N2SC-15

N2SC-23S

N2SC-03I

N2SC-07

N2SC-075

N2SC-06

N2SC-08

N2SC-11

N2SC-12

N2SC-09

N2SC-10

MW-13

MW-10I

MW-10S

NS-30

NS-31

NS-15

NS-1

NS-32

NS-36

NS-9

NS-21

NS-34

NS-16

NS-11

NS-18

NS-10

NS-19

NS-33

NS-20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

RESPONSE (MILLIVOLTS)

900 700 500 300 100 0 −100 −300 −500 −700 −900 −1100

LEGEND:

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-8 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- S ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- 980 INDEX ELEVATION CONTOUR
- 982 INTERMEDIATE ELEVATION CONTOUR
- SANITARY MANHOLE
- UTILITY POLE
- PAVED (ASPHALT/CONCRETE)
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH
- AREA SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER IN ACCORDANCE WITH THE CONSENT DECREE AND STATEMENT OF WORK
- NS-18 MONITORING WELL LOCATION AND CORRESPONDING ID
- GPR INVESTIGATION AREA
- TEST TRENCH LOCATION
- 15 TEST TRENCH NUMBER

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND ALL UTILITIES MAY NOT BE SHOWN.
3. EM61 SURVEY ACTIVITIES PERFORMED BETWEEN SEPTEMBER 15 AND SEPTEMBER 19, 2005.

0 30' 60'
GRAPHIC SCALE

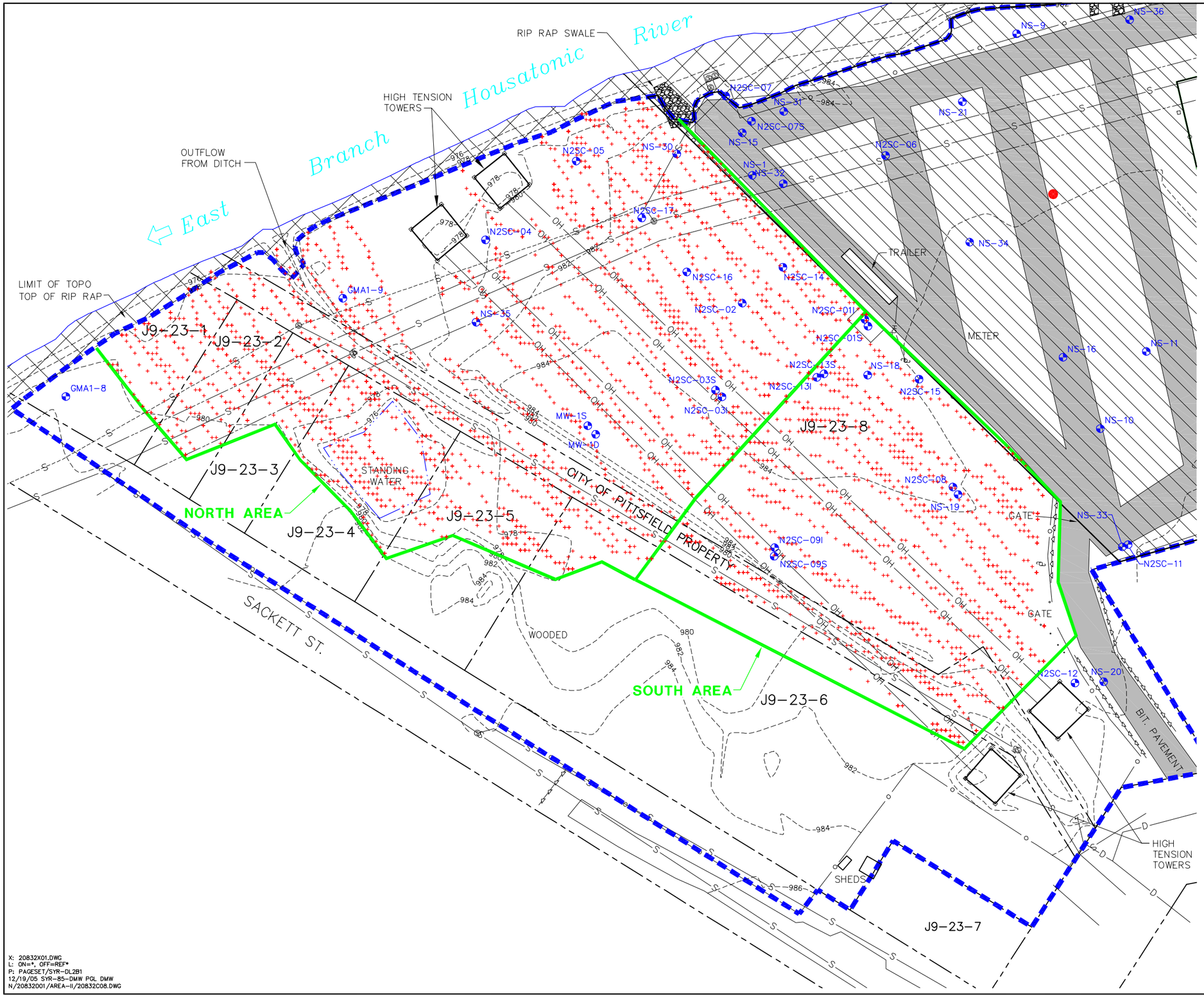
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II – SUBSURFACE INVESTIGATION SUMMARY REPORT

EM61 SURVEY - CHANNEL D RESPONSE (DIFFERENTIAL)

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 3

X: 20832X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20832C02.DWG



LEGEND:

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-8 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- S ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- 980 INDEX ELEVATION CONTOUR
- 982 INTERMEDIATE ELEVATION CONTOUR
- SANITARY MANHOLE
- UTILITY POLE
- PAVED (ASPHALT/CONCRETE)
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH
- AREA SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER IN ACCORDANCE WITH THE CONSENT DECREE AND STATEMENT OF WORK
- NS-18 MONITORING WELL LOCATION AND CORRESPONDING ID
- GPS DATA POINT LOCATION
- MAGNETOMETER BASE STATION LOCATION

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND ALL UTILITIES MAY NOT BE SHOWN.
3. MAGNETOMETER SURVEY ACTIVITIES PERFORMED ON SEPTEMBER 20, 2005.

0 30' 60'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II – SUBSURFACE INVESTIGATION SUMMARY REPORT

MAGNETOMETER SURVEY - DATA POINT LOCATIONS

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 4

X: 20832X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20832C08.DWG

RIP RAP SWALE

Housatonic River

Branch

East

ANOMALY DUE TO HIGH TENSION TOWERS

HIGH TENSION TOWERS

OUTFLOW FROM DITCH

ANOMALY DUE TO SANITARY SEWER LINE

LIMIT OF TOPO

TOP OF RIP RAP

J9-23-1

J9-23-2

J9-23-3

J9-23-4

J9-23-5

J9-23-6

J9-23-7

J9-23-8

GMA1-8

GMA1-9

N2SC-01

N2SC-02

N2SC-03I

N2SC-03S

N2SC-04

N2SC-05

N2SC-06

N2SC-07

N2SC-08

N2SC-09I

N2SC-09S

N2SC-11

N2SC-12

N2SC-13S

N2SC-14

N2SC-15

N2SC-16

N2SC-17

N2SC-075

NS-1

NS-9

NS-10

NS-11

NS-15

NS-16

NS-18

NS-19

NS-20

NS-21

NS-30

NS-31

NS-32

NS-33

NS-34

NS-35

NS-36

MW-1S

MW-1D

TRAILER

METER

ANOMALY DUE TO EQUIPMENT

STANDING WATER

CITY OF PITTSFIELD PROPERTY

WOODED

ANOMALY DUE TO SANITARY SEWER LINE

SACKETT ST.

SHEDS

GATE

ANOMALY DUE TO FENCE AND GUARDRAIL

BIT. PAVEMENT

HIGH TENSION TOWERS

TOTAL FIELD VALUE (nT)

58500
57500
56500
56000
55500
54500
54000
53500
52500
51500
50500
49500
48500
47500
46500

LEGEND:

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-8 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- S ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- 980 INDEX ELEVATION CONTOUR
- 982 INTERMEDIATE ELEVATION CONTOUR
- SANITARY MANHOLE
- UTILITY POLE
- PAVED (ASPHALT/CONCRETE)
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH
- AREA SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER IN ACCORDANCE WITH THE CONSENT DECREE AND STATEMENT OF WORK
- NS-18 MONITORING WELL LOCATION AND CORRESPONDING ID
- GPR INVESTIGATION AREA
- TEST TRENCH LOCATION
- 15 TEST TRENCH NUMBER

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND ALL UTILITIES MAY NOT BE SHOWN.
3. MAGNETOMETER SURVEY ACTIVITIES PERFORMED ON SEPTEMBER 20, 2005.

0 30' 60'
GRAPHIC SCALE

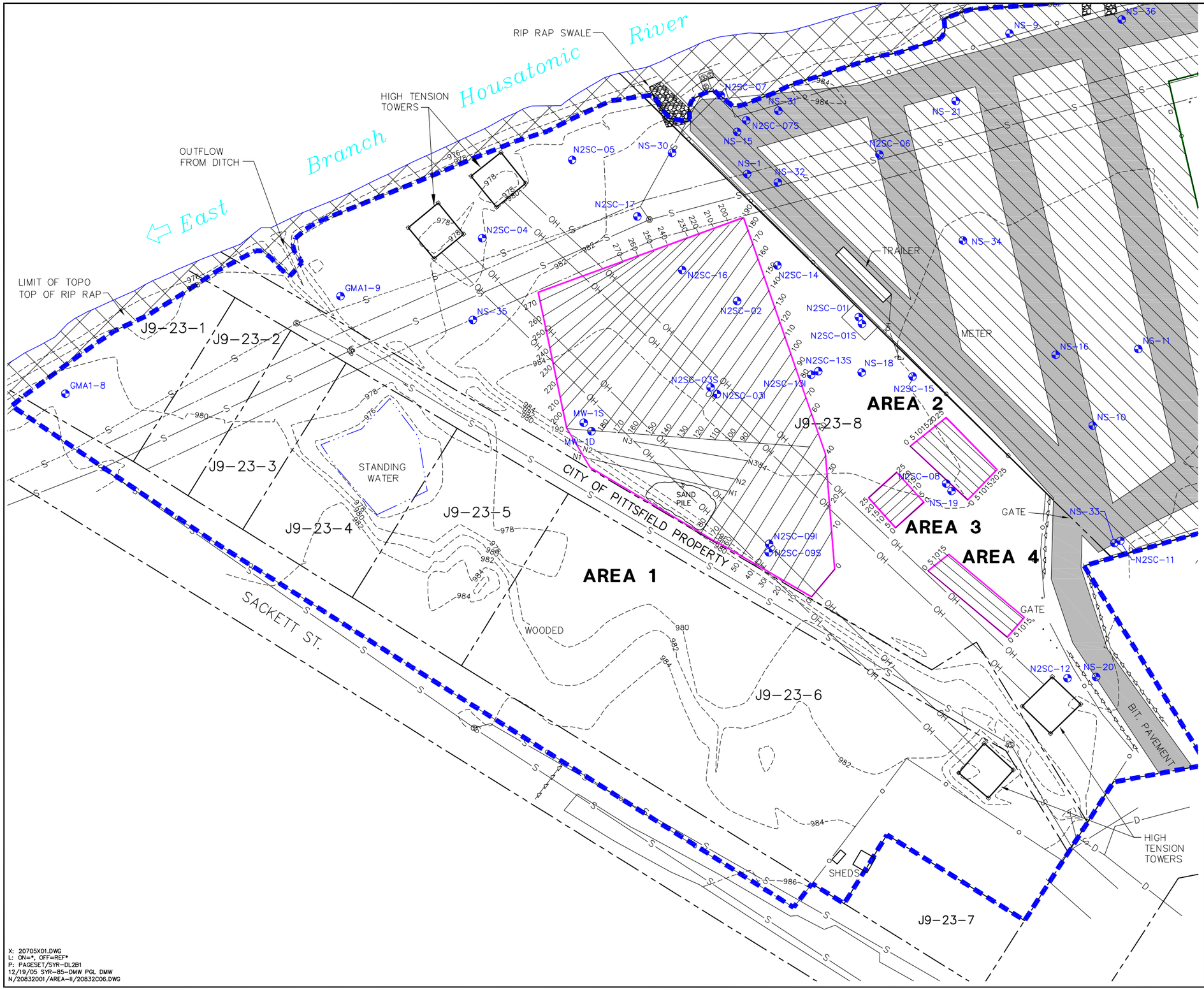
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II – SUBSURFACE INVESTIGATION SUMMARY REPORT

MAGNETOMETER SURVEY - TOTAL FIELD CONTOUR MAP

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 5

X: 20832X00, ...X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20832C01.DWG



LEGEND:

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-8 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- S ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- 980 INDEX ELEVATION CONTOUR
- 982 INTERMEDIATE ELEVATION CONTOUR
- SANITARY MANHOLE
- UTILITY POLE
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH
- AREA SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER IN ACCORDANCE WITH THE CONSENT DECREE AND STATEMENT OF WORK
- NS-18 MONITORING WELL LOCATION AND CORRESPONDING ID
- GPR INVESTIGATION AREA

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND ALL UTILITIES MAY NOT BE SHOWN.
3. GPR SURVEY ACTIVITIES PERFORMED BETWEEN OCTOBER 6 AND OCTOBER 11, 2005.

0 30' 60'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II – SUBSURFACE INVESTIGATION SUMMARY REPORT

GPR SURVEY LINE LOCATIONS

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 6

X: 20705X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20B32C06.DWG

LEGEND:

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-8 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
- D STORM DRAIN
- ~~S~~ ABANDONED SANITARY SEWER
- TOP OF BANK
- GUARD RAIL
- 980 INDEX ELEVATION CONTOUR
- 982 INTERMEDIATE ELEVATION CONTOUR
- SANITARY MANHOLE
- UTILITY POLE
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH
- AREA SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER IN ACCORDANCE WITH THE CONSENT DECREE AND STATEMENT OF WORK
- METAL DEBRIS WITH TARGETS AND APPROXIMATE DEPTH RANGE (2'-7'bgs)
- METAL DEBRIS ONLY AND APPROXIMATE DEPTH RANGE (1'-8'bgs)
- AREA OF POOR GPR DATA OR INACCESSIBLE FOR GPR EQUIPMENT
- NS-18 MONITORING WELL LOCATION AND CORRESPONDING ID
- GPR INVESTIGATION AREA
- TEST TRENCH LOCATION
- 15 TEST TRENCH NUMBER

NOTES:

1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS, ARCHITECTS & PLANNERS, DATED 12/9/03. LIMITS OF HOUSATONIC RIVER ARE APPROXIMATE.
2. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND ALL UTILITIES MAY NOT BE SHOWN.
3. GPR SURVEY ACTIVITIES PERFORMED BETWEEN OCTOBER 6 AND OCTOBER 11, 2005.

0 30' 60'
GRAPHIC SCALE

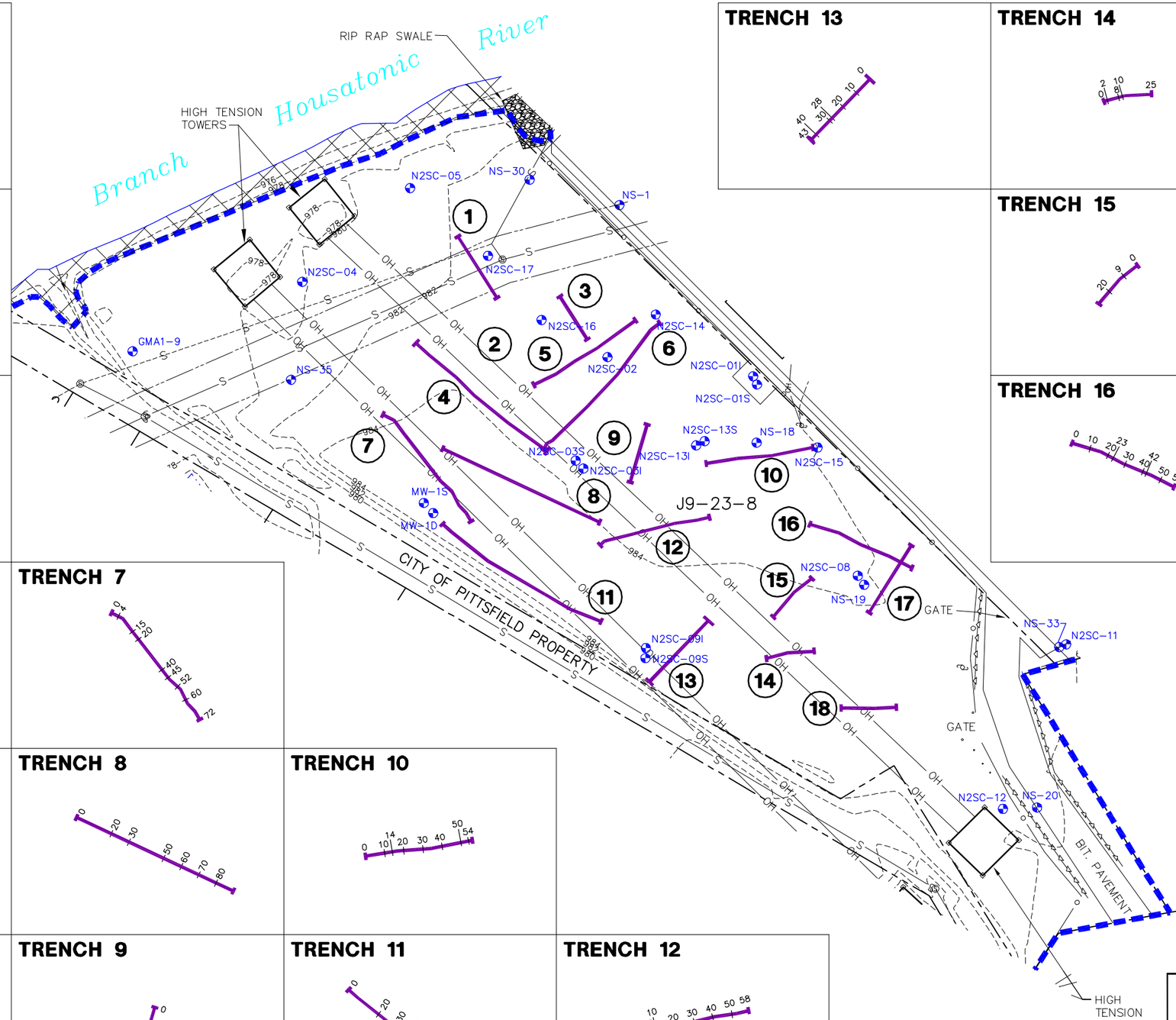
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II – SUBSURFACE INVESTIGATION SUMMARY REPORT

GPR SURVEY RESULTS

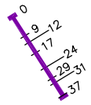
BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists

FIGURE 7

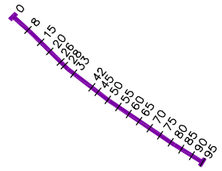
X: 20832X00, ...X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20832C03.DWG



TRENCH 1

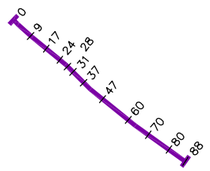


TRENCH 2



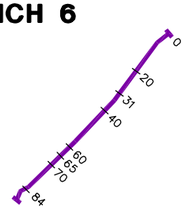
TRENCH 3

TRENCH 4



TRENCH 5

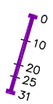
TRENCH 6



TRENCH 7

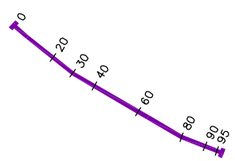
TRENCH 8

TRENCH 9



TRENCH 10

TRENCH 11



TRENCH 12

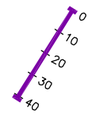
TRENCH 13

TRENCH 14

TRENCH 15

TRENCH 16

TRENCH 17



TRENCH 18

LEGEND:

- APPROXIMATE RAA BOUNDARY
- PARCEL BOUNDARY
- EASEMENT
- J9-23-8 PARCEL ID
- CHAIN LINK FENCE
- OH OVERHEAD WIRES
- S SANITARY SEWER
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- NS-18 MONITORING WELL LOCATION AND CORRESPONDING ID
- TEST TRENCH LOCATION
- 15 TEST TRENCH NUMBER

0 30' 60'
GRAPHIC SCALE

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TEST TRENCH LOCATIONS

BBL BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE 8

X: 20832X00, X01.DWG
L: ON=*, OFF=REF*
P: PAGESET/SYR-DL2B1
12/19/05 SYR-85-DMW PGL DMW
N/20832001/AREA-II/20832C05.DWG

Attachments

Attachment A - Compact Disk containing Field Survey Grid Data

Attachment B - Compact Disk containing Ground Penetrating Radar Profile Bitmaps

These electronic data files are available upon request.

BBL
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engineers, scientists, economists