



01-0418

Corporate Environmental Programs SDMS 258052  
General Electric Company  
100 Woodlawn Avenue, Pittsfield, MA 01201

August 28, 2001

Bryan Olson  
EPA Project Coordinator  
U.S. Environmental Protection Agency  
EPA New England  
One Congress Street, Suite 1100  
Boston, Massachusetts 02114-2023

**Re: GE-Pittsfield/Housatonic River Site  
30s Complex (GEC120)  
Supplemental Information for the June 2001 *Demolition/Consolidation Work Plan for  
Buildings 31, 31-J, and 31-P***

Dear Mr. Olson:

Thank you for meeting with us on August 15, 2001 to discuss several topics related to the General Electric Company's (GE's) plans for the demolition of Building 31 at GE's facility in Pittsfield, Massachusetts. As you know, GE provided the U.S. Environmental Protection Agency (EPA) a document titled *Demolition/Consolidation Work Plan for Buildings 31, 31-J, and 31-P* (Work Plan) in June 2001. That Work Plan described the activities to be performed by GE to demolish Buildings 31, 31-J, and 31-P (collectively referred to as the Building 31 Complex), consolidate the demolition debris within the Building 31 foundation, and restore the affected areas. Subsequent to that submittal, EPA identified several comments and questions related to GE's proposed activities; these topics were discussed at the August 15<sup>th</sup> meeting and subsequent tour of the Building 31 Complex. As a follow-up to certain topics discussed during that meeting, this letter provides additional information (as a supplement to the Work Plan) for EPA's review and consideration during its further review of the Work Plan. The topics discussed in this letter are:

- TCLP Sample Locations;
- Presence of Mercury in Building 31;
- Presence of Coal Ash in Basement Tunnels; and
- Building 31 Basement/Groundwater Interaction.

#### ***TCLP Sample Locations***

During the August 15<sup>th</sup> meeting, EPA requested that GE identify the locations of the Toxicity Characteristic Leaching Procedure (TCLP) samples that were collected in Building 31. Attachment D, Section 1 of the Work Plan provides a summary of the Building 31 characterization data collected by GE, including the results of TCLP sampling activities. Figures depicting the locations of those TCLP

sampling activities were inadvertently omitted from the Work Plan, but are included as Attachment A to this letter.

As indicated on the figures presented in Attachment A, the samples collected for TCLP analysis were composites of sampling media (concrete) obtained from the same locations on the basement and first floors of Building 31 where PCB sampling was conducted. Specifically, five TCLP samples were collected and composited from 14 locations. All sample results were non-detect for volatile organic compounds, semi-volatile organic compounds, and inorganic constituents. Also, other testing for hazardous waste characteristics (ignitability, reactive cyanide, reactive sulfide, and corrosivity) indicated that the material would not be classified as RCRA hazardous waste.

### ***Presence of Mercury in Building 31***

In communications with GE prior to the August 15<sup>th</sup> meeting, EPA requested certain information about the presence of mercury in Building 31. Specifically, EPA identified the collection of a sediment sample within an interior Building 31 sump, which had been collected on May 22, 1991, and found to contain 3,890 parts per million (ppm) total mercury, and it inquired as to the location of that sump. In addition, EPA inquired as to the presence of mercury previously noted on the Building 31 floor and exterior of the mercury reservoirs in metering closet #5. During the August 15<sup>th</sup> meeting and site visit, GE provided additional information related to the locations of the sump and metering closet #5 within Building 31. Attachment B to this letter provides an updated Figure 3 from Attachment D of the Work Plan showing the sump location.

GE has subsequently measured the thickness of the sediment in the sump. The measurements indicated a sediment thickness of approximately 1.1 feet within the approximately 6.5 feet by 2.5 feet by 4.7 feet deep sump. In light of our recent discussions, GE will remove the mechanical equipment (e.g., pumps, pipe, valves, etc.), water, and sediment from the sump, dispose of these materials off-site, and backfill the sump with concrete or grout prior to the building demolition and consolidation activities.

The mercury observed on the building floor and exterior of the mercury reservoirs in metering closet #5 was removed during the chemical inventory and removal activities performed by Chemcept in 1999 (summarized in Attachment D of the Work Plan). All other items containing mercury (e.g., lamps, thermostats, etc.) remaining in the building will be removed by the demolition contractor prior to the demolition activities and disposed of off-site, as discussed in Attachment A of the Work Plan.

### ***Presence of Coal Ash in Basement Tunnels***

During the August 15<sup>th</sup> meeting and site visit, EPA made inquiries regarding the amount of coal ash remaining in the ash tunnels beneath the Building 31 basement floor. EPA also requested results of any analytical testing performed on the coal ash. In response, GE indicated that the ash tunnels were partially drained and videotaped in 1999, and that the ash in the tunnels appears to have been removed. Certain representative portions of that videotape have been reproduced (in the form of still photos) and are included in Attachment C to this letter. As can be seen from the photos, there does not appear to be any residual ash remaining in the tunnels. Notwithstanding this visual confirmation, and as indicated in the Work Plan, GE will backfill the tunnels in their entirety with concrete or grout prior to demolition and consolidation activities.

Results of analytical testing performed for the coal ash are also included in Attachment C. The coal ash sample was collected in 1991 from the bottom of the former Building 31 smoke stack. The results of the testing indicate that the material exhibits the characteristic of toxicity for chromium. However, since the coal ash is derived from fossil fuel, it is considered a non-hazardous waste under 40 CFR 261.4(b)(4) and 310 CMR 30.104(9).

### ***Potential Building 31/Groundwater Interaction***

During the August 15<sup>th</sup> meeting and site visit, EPA acknowledged GE's language in the Work Plan regarding the potential for future interaction between local groundwater and the demolition materials consolidated within the Building 31 basement. EPA inquired as to the elevation of the Building 31 basement floor relative to the historical seasonal high groundwater levels in the area of Building 31.

Following the August 15<sup>th</sup> meeting, and as a supplement to the available survey information, GE collected survey measurements at various locations of the Building 31 basement floors, as well as the elevation of the water at the inlet of the ash tunnels (presumed to be groundwater). Those survey measurements were completed on August 21, 2001, and are provided in Attachment D to this letter. The survey indicated that the basement floor is generally at elevation 981 feet above mean sea level (amsl). The western portion of the basement floor is slightly higher, with elevations close to 982 feet amsl. A small isolated area of the floor near the center of the building drops in elevation to just under 981 feet amsl (specifically, 980.72 feet amsl at the lowest surveyed point).

GE also conducted water level measurements at seven watertable monitoring wells in the vicinity of the Building 31 Complex on August 17, 2001, to supplement the data collected from groundwater monitoring performed in Spring 2001. The well locations are illustrated on Figure 1 in Attachment D and corresponding water elevations measured in August 2001 are provided in Table 1 in Attachment D. In addition, GE has reviewed the historical seasonal high (spring) water elevation measurements from these wells, which in most cases date back to 1996. These data are presented in Table 2 in Attachment D.

Of these wells, the well that is closest to and thus most representative of groundwater conditions beneath Building 31 is well GMA1-1, located adjacent to the northwest corner of Building 31. Following installation of this well in Spring 2001 (as part of the GMA 1 well installation program), the measured seasonal high (spring) groundwater elevation was 979.43 feet amsl, which is more than a foot lower than the lowest elevation of the Building 31 basement floor. However, since this well was only recently installed, historical water level data do not exist for this location. As a result, GE has reviewed the historical seasonal high groundwater elevation data from the other wells in this vicinity for which such data do exist (five wells) (as shown in Table 2) to determine whether the Spring 2001 data are representative of the seasonal high water table. As indicated in Table 2, the Spring 2001 groundwater elevations for these wells are sometimes slightly higher and sometimes slightly lower than the maximum previously recorded spring groundwater elevations. On average, for these five wells, the Spring 2001 elevations are only approximately 0.62 feet lower than the maximum previously recorded elevations. Accordingly, to estimate the maximum seasonal high groundwater elevation at well GMA1-1, that difference was added to the Spring 2001 groundwater elevation for well GMA1-1 (979.43 feet amsl), which yields an estimated high groundwater elevation of approximately 980.05 feet amsl.

Further evidence that use of this adjusted Spring 2001 groundwater elevation at well GMA1-1 is conservative is provided by a comparison of the Spring 2001 elevation data with Spring 1994 elevation data for wells in this overall area that were in place and had water level measurements in 1994. This

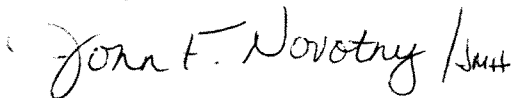
comparison uses Spring 1994 data because, on a Plant-wide basis, Spring 1994 had the highest groundwater elevations recorded historically, but it requires use of wells further removed from Building 31 due to the absence of 1994 data from wells closer to that building. This comparison, presented in Table 3 of Attachment D, shows that, on average, the Spring 2001 elevations for the wells in this general area were 0.24 feet *higher* than the 1994 elevations.

Based on the above information (i.e., the surveyed basement floor elevations and the derived historical groundwater elevations near Building 31), it does not appear likely that groundwater will contact the demolition materials consolidated in the Building 31 basement. Nonetheless, GE will fill the large sump and elevator shaft located near the center of the building with concrete or grout to the surface of the basement floor. By backfilling this sump and elevator shaft (as well as the sump and ash tunnels discussed above) with such materials, the potential for groundwater contacting the demolition materials consolidated within the basement will be further reduced.

Additionally, as discussed in the Work Plan, GE will conduct groundwater monitoring at wells located near and downgradient of Building 31 as part of GE's groundwater monitoring program for GMA 1. To enhance the groundwater monitoring referenced in the Work Plan and currently performed as part of GMA 1 baseline activities, GE proposes to install an additional downgradient monitoring well near the southwest corner of Building 31 (identified as well GMA1-12 on Figure 1 in Attachment D). Upon EPA approval, GE will install that well. Once installed, this well will become part of the GMA 1 groundwater monitoring program. GE proposes to initially monitor groundwater elevations at this well on a monthly basis. In addition, GE proposes to utilize new well GMA1-12 in place of well GMA1-1 in its semi-annual groundwater quality sampling program.

We trust that the contents of this letter and the additional information provided in the attachments will be sufficient to address EPA's questions and comments concerning the Work Plan. We hope that EPA's review will be completed as expeditiously as possible to allow for demolition activities to begin in the middle of September 2001. Once the Work Plan is approved, GE will complete the contractor selection process and the pre-demolition activities. Should additional questions arise or if additional information is necessary, please contact me as soon as possible.

Sincerely,

Handwritten signature of John F. Novotny in black ink.

John F. Novotny, P.E.  
Manager - Facility and Brownfields Programs

Attachments

cc: Michael Nalipinski, EPA\*  
Tim Conway, EPA  
Holly Inglis, EPA\*  
K.C. Mitkevicius, USACE\*  
Dawn Jamros, Weston\*  
J. Lyn Cutler, MDEP (2 copies)\*  
Alan Weinberg, MDEP  
Robert Bell, MDEP  
Susan Keydel, MDEP\*  
Thomas Angus, MDEP  
Nancy E. Harper, MA AG  
Dale Young, MA EOE

Mayor Gerald Doyle, City of Pittsfield\*  
Thomas Hickey, Director, PEDDA\*  
Jeffrey Bernstein, Bernstein, Cushner & Kimmell\*  
Theresa Bowers, Gradient\*  
Pittsfield Department of Health\*  
Michael Carroll, GE  
Andrew Silber, GE\*  
Rod McLaren, GE\*  
James Bieke, Shea & Gardner\*  
Samuel Gutter, Sidley Austin Brown & Wood\*  
James Nuss, BBL\*  
Public Information Repositories

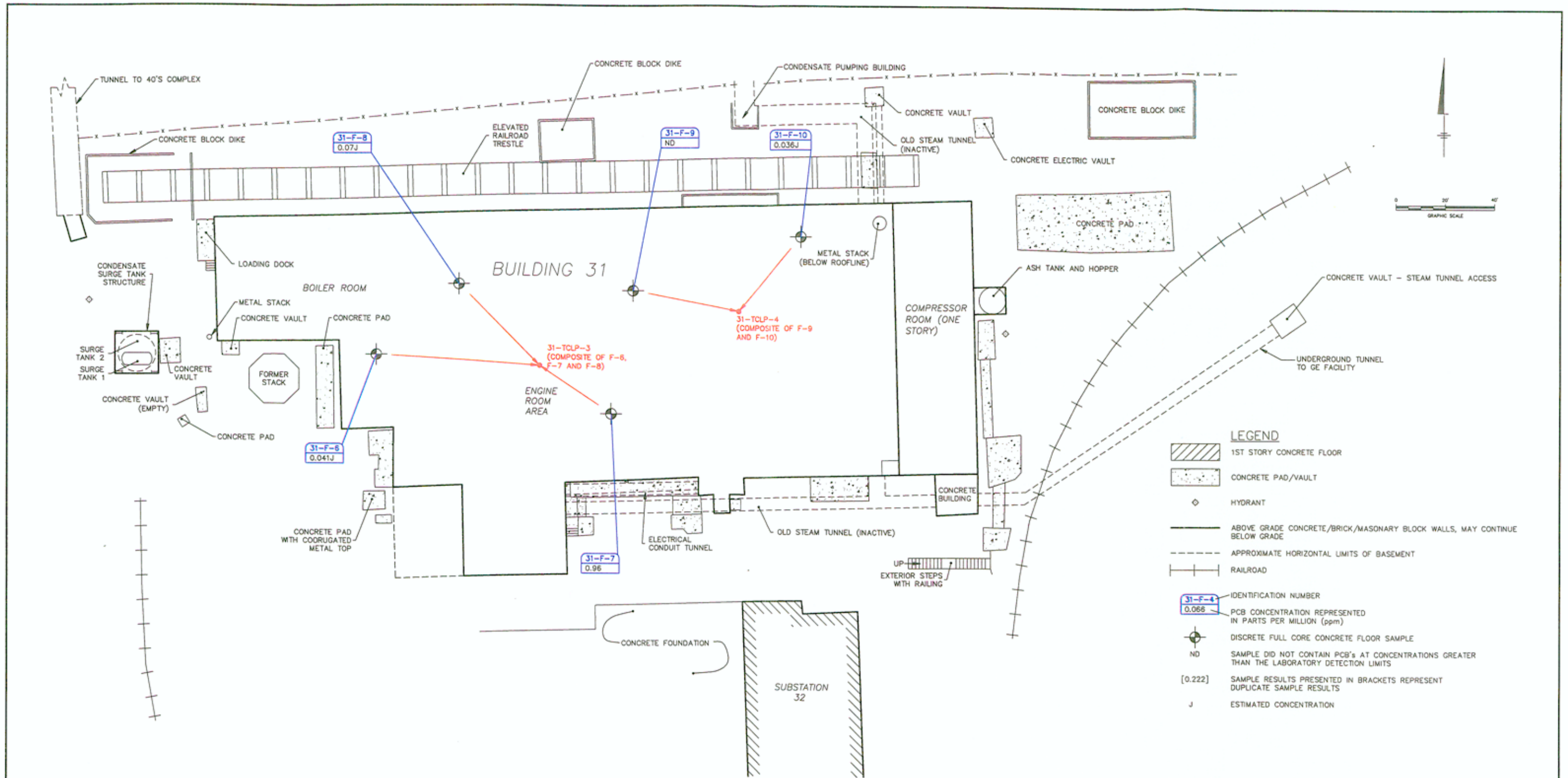
(\* with attachments)

***Attachment A***

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**TCLP Sampling Locations**

# **Building 31 Basement TCLP Sampling Locations**



- LEGEND**
- 1ST STORY CONCRETE FLOOR
  - CONCRETE PAD/VAULT
  - HYDRANT
  - ABOVE GRADE CONCRETE/BRICK/MASONRY BLOCK WALLS, MAY CONTINUE BELOW GRADE
  - APPROXIMATE HORIZONTAL LIMITS OF BASEMENT
  - RAILROAD
  - IDENTIFICATION NUMBER  
PCB CONCENTRATION REPRESENTED IN PARTS PER MILLION (ppm)
  - DISCRETE FULL CORE CONCRETE FLOOR SAMPLE
  - SAMPLE DID NOT CONTAIN PCB'S AT CONCENTRATIONS GREATER THAN THE LABORATORY DETECTION LIMITS
  - SAMPLE RESULTS PRESENTED IN BRACKETS REPRESENT DUPLICATE SAMPLE RESULTS
  - ESTIMATED CONCENTRATION

**GENERAL NOTES:**

1. DRAWING BASED ON BUILDING 31 DRAWING PREPARED BY WHITE ENGINEERING, INC., DATED AUGUST 4 1999, AND FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK AND LEE, INC., DURING A SITE VISIT IN AUGUST 1999.
2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

GENERAL ELECTRIC COMPANY  
BROWNFIELDS PROGRAM  
PITTSFIELD, MASSACHUSETTS

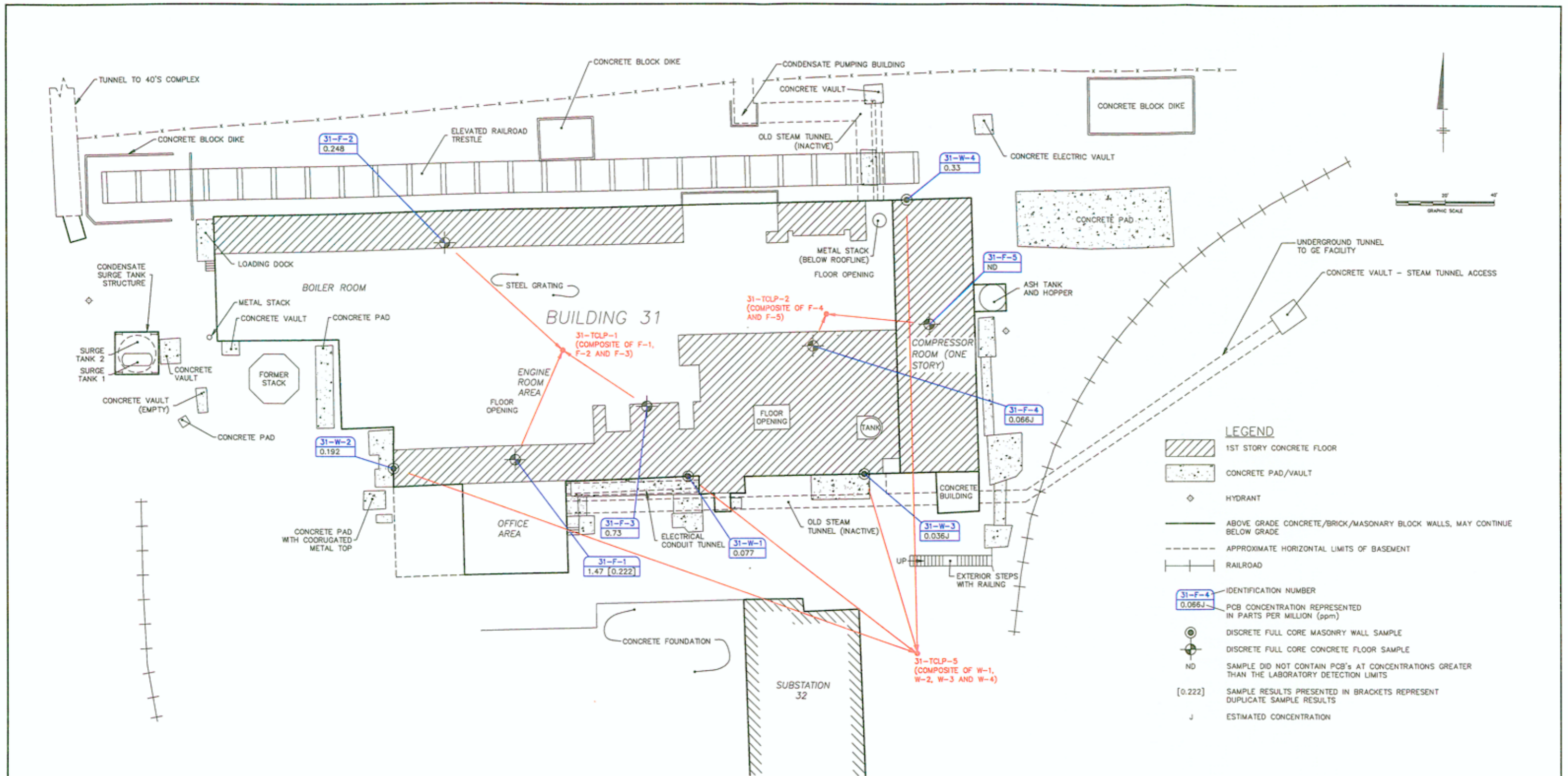
**BUILDING 31 BASEMENT TCLP  
SAMPLING LOCATIONS**

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

FIGURE  
**3**

L:ON= OFF=REF\*  
P: PAGESET/PLT-DL  
8/22/01 51R-34-KLN  
10129002/10129003.DWG





**GENERAL NOTES:**

- DRAWING BASED ON BUILDING 31 DRAWING PREPARED BY WHITE ENGINEERING, INC., DATED AUGUST 4 1999, AND FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK AND LEE, INC., DURING A SITE VISIT IN AUGUST 1999.
- ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

GENERAL ELECTRIC COMPANY  
BROWNFIELDS PROGRAM  
PITTSFIELD, MASSACHUSETTS

**BUILDING 31 FIRST FLOOR TCLP  
SAMPLING LOCATIONS**

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

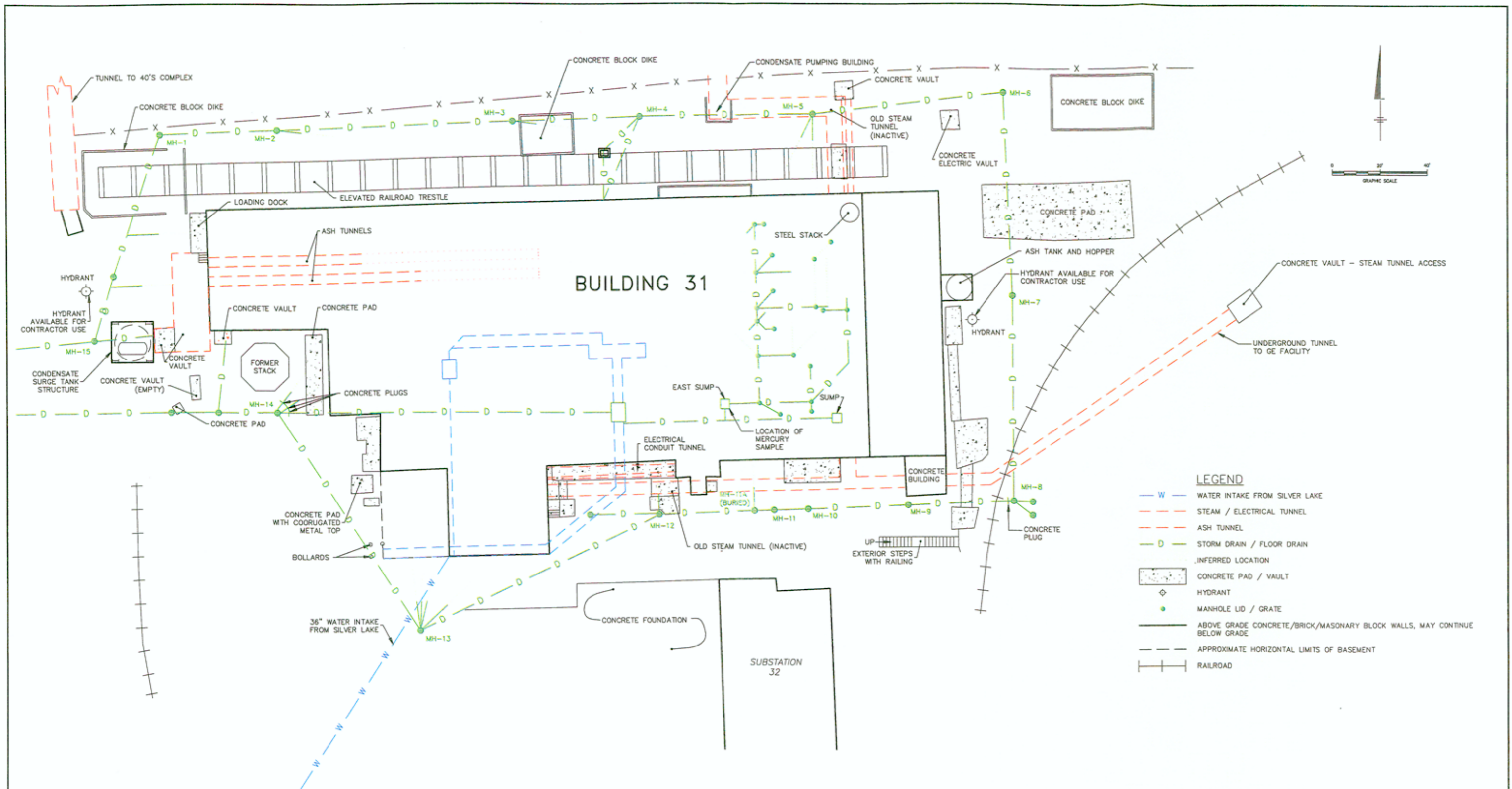
FIGURE  
**4**

L:GN\* OFF-REF\*  
P: PAGESET/PLT-DL  
8/22/01 SYR-54-KLN  
10129002/10129004.DWG

***Attachment B***

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**Basement Sump Location**



**LEGEND**

- W — WATER INTAKE FROM SILVER LAKE
- - - STEAM / ELECTRICAL TUNNEL
- - - ASH TUNNEL
- D - STORM DRAIN / FLOOR DRAIN
- - - INFERRED LOCATION
- CONCRETE PAD / VAULT
- ⊕ HYDRANT
- MANHOLE LID / GRATE
- ABOVE GRADE CONCRETE/BRICK/MASONRY BLOCK WALLS, MAY CONTINUE BELOW GRADE
- APPROXIMATE HORIZONTAL LIMITS OF BASEMENT
- RAILROAD

- GENERAL NOTES:**
1. DRAWING BASED ON BUILDING 31 DRAWING PREPARED BY WHITE ENGINEERING, INC., DATED AUGUST 4 1999, FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK AND LEE, INC., DURING A SITE VISIT IN AUGUST 1999 AND HISTORICAL GE DRAWINGS.
  2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR.
  3. THE PENETRATIONS/OPENINGS PRESENTED ON THIS DRAWING ARE NOT ALL INCLUSIVE. ADDITIONAL PENETRATIONS/OPENINGS IDENTIFIED DURING DEMOLITION ACTIVITIES MUST BE ADDRESSED AS PER THE ACCOMPANYING SPECIFICATION.

GENERAL ELECTRIC COMPANY  
BROWNFIELDS PROGRAM  
PITTSFIELD, MASSACHUSETTS

**BUILDING 31 BASEMENT TUNNELS**

BBL

BLASLAND, BOUCK & LEE, INC.  
engineers & scientists

FIGURE  
3

L: GN=\*, OFF=REF\*  
P: PAGESET/PLT-DL  
8/24/01 SYR-54-KLN  
10129002/10129005.DWG

## ***Attachment C***

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### **Photos of Ash Tunnels and Analytical Results for Coal Ash**

# **Photographs of Ash Tunnels**





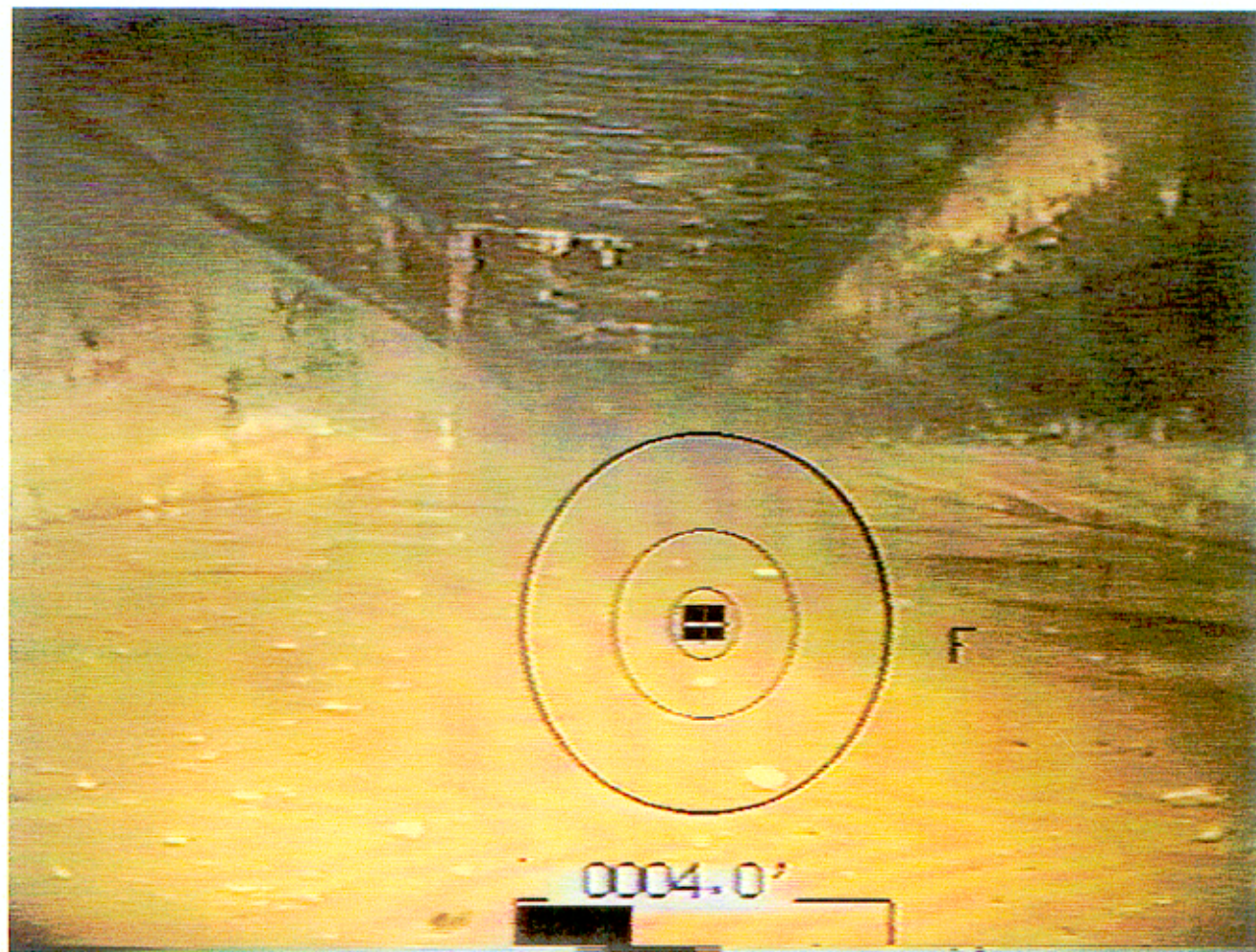






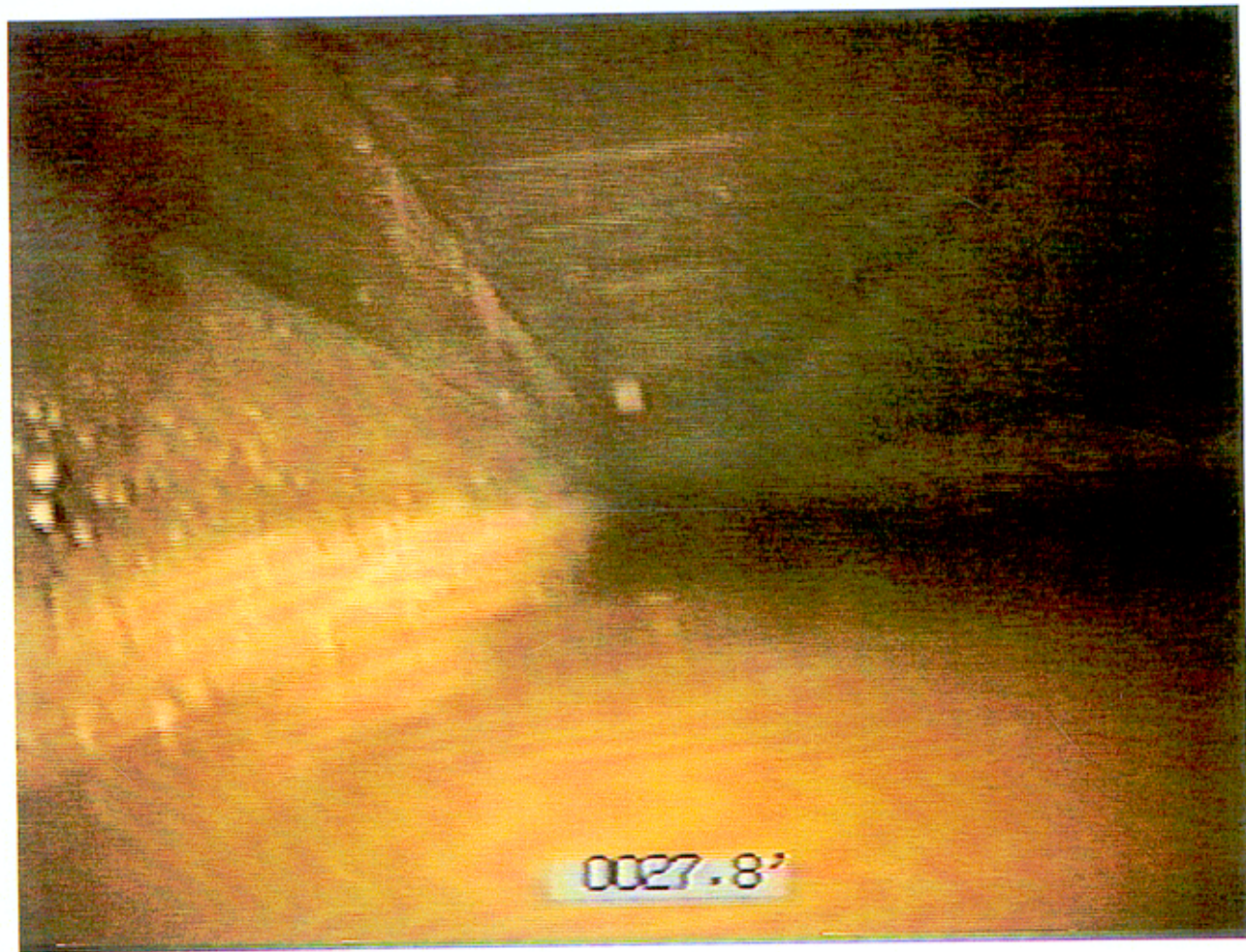








0013.0'



# **TCLP Sample Results For Coal Ash**

GENERAL ELECTRIC  
ENVIRONMENTAL LABORATORY

Test Report

Title: TCLP Analyses of Power House Stack Sample

Number: EL-91-027

Test by: Alpha Analytical

Date: July 8, 1991

Report by: WA Fessler

Requested by: D Martindale

Approved: *W. A. Fessler*  
7/8/91

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One sample of solid was sent to Alpha Analytical Laboratories for determination of toxicity characteristics listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached table. Parameters which exceeded the regulatory limits are identified by the comment 'EXCEED'.

Sample PH Stack 1A/1B shows the characteristic of toxicity due to the presence of chromium.

A copy of the report from Alpha is attached.

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DISTRIBUTION:   Manager, Environmental Laboratory   C23  
                  D Martindale                           11-250  
                  A Cole                               11-250



Sample ID		Result	Regulatory Lim	
PH Stack 1A/1B		mg/L	mg/L	
Arsenic		2.89	5.000	OK
Barium		.03	100.000	OK
Cadmium		.02	1.000	OK
Chromium		5.55	5.000	EXCEED
Lead		.15	5.000	OK
Mercury		.0021	.200	OK
Selenium	<	.01	1.000	OK
Silver	<	.01	5.000	OK
<hr/>				
o-Cresol	<		200.000	OK
m-Cresol	<		200.000	OK
p-Cresol	<		200.000	OK
Cresols	<	.029	200.000	OK
2,4-Dinitrotoluene	<	.015	.130	OK
Hexachlorobenzene	<	.011	.130	OK
Hexachlorobutadiene	<	.032	.500	OK
Hexachloroethane	<	.02	3.000	OK
Nitrobenzene	<	.0076	2.000	OK
Pentachlorophenol	<	.0368	100.000	OK
2,4,5-Trichlorophenol	<	.019	400.000	OK
2,4,6-Trichlorophenol	<	.011	2.000	OK
Pyridine	<	.1	5.000	OK
<hr/>				
Benzene	<	.005	.500	OK
Carbon Tetrachloride	<	.005	.500	OK
Chlorobenzene	<	.018	100.000	OK
Chloroform	<	.0075	6.000	OK
1,4-Dichlorobenzene	<	.05	7.500	OK
1,2-Dichloroethane	<	.0075	.500	OK
1,1-Dichloroethylene	<	.0075	.700	OK
Tetrachloroethylene	<	.0075	.700	OK
Trichloroethylene	<	.005	.500	OK
Vinyl Chloride	<	.018	.200	OK
Methyl Ethyl Ketone	<	.05	200.000	OK



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006

Laboratory Sample Number: 913780.1 Date Received: 06/18/91

Sample Matrix: Solid Date Reported: 07/02/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: Two glass jars and three VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL**	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	----	-----	---	13	1311	06/20/91	-----
RCRA 8 Metals							
Arsenic	2.89	mg/L	0.10	1	6010	06/21/91	06/26/91
Barium	0.03	mg/L	0.05	1	6010	06/21/91	06/26/91
Cadmium	0.02	mg/L	0.01	1	6010	06/21/91	06/26/91
Chromium	5.55	mg/L	0.02	1	6010	06/21/91	06/26/91
Lead	0.15	mg/L	0.10	1	6010	06/21/91	06/26/91
Mercury	0.0021	mg/L	0.0005	1	7470	06/21/91	06/26/91
Selenium	ND	mg/L	0.01	1	7740	06/21/91	06/26/91
Silver	ND	mg/L	0.01	1	6010	06/21/91	06/26/91
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	06/26/91	06/28/91
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	06/26/91	06/28/91
Hexachlorobenzene	ND	mg/L	0.011	1	8270	06/26/91	06/28/91
Hexachloro-1,3-butadiene	ND	mg/L	0.032	1	8270	06/26/91	06/28/91
Hexachloroethane	ND	mg/L	0.020	1	8270	06/26/91	06/28/91
Nitrobenzene	ND	mg/L	0.0076	1	8270	06/26/91	06/28/91
Pentachlorophenol	ND	mg/L	0.0368	1	8270	06/26/91	06/28/91
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	06/26/91	06/28/91
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	06/26/91	06/28/91
Pyridine	ND	mg/L	0.10	1	8270	06/26/91	06/28/91

Acid/Base/Neutral Extractables	% Surrogate Recovery
2-Fluorophenol	14%
Phenol-d5	19%
2-Fluorobiphenyl	70%
2,4,6-Tribromophenol	50%
4-Terphenyl-d14	92%

TCLP Metals - All results are spike recovery corrected.

TCLP Organics - All results are not spike recovery corrected.

COMMENTS: \* Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086    NH 198958-A    CT PH-0574    NY 11148    NC 320    SC 88006

Laboratory Sample Number: 913780.1                      Date Received: 06/18/91

Sample Matrix: Solid    Date Reported: 07/02/91

Condition of Samples: Satisfactory                      Field Prep: None

Number & Type of Containers: Two glass jars and three VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	RESULT	UNITS	MDL**	REF*	METHOD	DATES	
						EXT/PREP	ANALYSIS
TCLP Extraction	----	-----	---	13	1311	06/21/91	-----
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	06/28/91
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	06/28/91
Chlorobenzene	ND	mg/L	0.018	1	8240	----	06/28/91
Chloroform	ND	mg/L	0.0075	1	8240	----	06/28/91
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	06/28/91
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	06/28/91
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	06/28/91
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	06/28/91
Trichloroethene	ND	mg/L	0.005	1	8240	----	06/28/91
Vinyl chloride	ND	mg/L	0.018	1	8240	----	06/28/91
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	06/28/91

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	119%
Toluene-d8	105%
4-Bromofluorobenzene	102%

TCLP Metals - All results are spike recovery corrected.  
TCLP Organics - All results are not spike recovery corrected.

COMMENTS: \* Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086    NH 198958-A    CT PH-0574    NY 11148    NC 320    SC 88006

Laboratory Sample Number: 913780.1S                      Date Received: 06/18/91

Sample Matrix: Solid    Date Reported: 07/02/91

Condition of Samples: Satisfactory                      Field Prep: None

Number & Type of Containers: Two glass jars and three VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	% RECOVERY
TCLP RCRA 8 Metals	
Arsenic	112%
Barium	7%
Cadmium	128%
Chromium	111%
Lead	52%
Mercury	100%
Selenium	21%
Silver	100%
TCLP Acid/Base Neutral Extractables	
Total cresol	34%
Hexachlorobenzene	88%
Hexachloro-1,3-butadiene	38%
Hexachloroethane	30%
Pentachlorophenol	57%
2,4,5-Trichlorophenol	45%
2,4,6-Trichlorophenol	46%
Pyridine	6%

Acid/Base/Neutral Extractables	% Surrogate Recovery
2-Fluorophenol	12%
Phenol-d5	16%
2-Fluorobiphenyl	62%
2,4,6-Tribromophenol	34%
4-Terphenyl-d14	83%

TCLP Metals - All results are spike recovery corrected.

TCLP Organics - All results are not spike recovery corrected.

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COMMENTS: \* Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086    NH 198958-A    CT PH-0574    NY 11148    NC 320    SC 88006

Laboratory Sample Number: 913780.1S                      Date Received: 06/18/91

Sample Matrix: Solid    Date Reported: 07/02/91

Condition of Samples: Satisfactory                      Field Prep: None

Number & Type of Containers: Two glass jars and three VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	% RECOVERY
TCLP Volatile Organics	
Benzene	98%
Carbon tetrachloride	99%
Chlorobenzene	107%
Chloroform	104%
1,4-Dichlorobenzene	106%
1,2-Dichloroethane	113%
1,1-Dichloroethene	116%
Tetrachloroethene	109%
Trichloroethene	120%
Vinyl chloride	90%
Methyl ethyl ketone	84%

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	112%
Toluene-d8	101%
4-Bromofluorobenzene	104%

TCLP Metals - All results are spike recovery corrected.

TCLP Organics - All results are not spike recovery corrected.

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COMMENTS: \* Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS  
FOR INORGANICS

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PARAMETER GROUP	WATER	SOIL
Metals	75-125 %	60-140 %
Wet Chemistry	70-130 %	N/A

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*Attachment D*

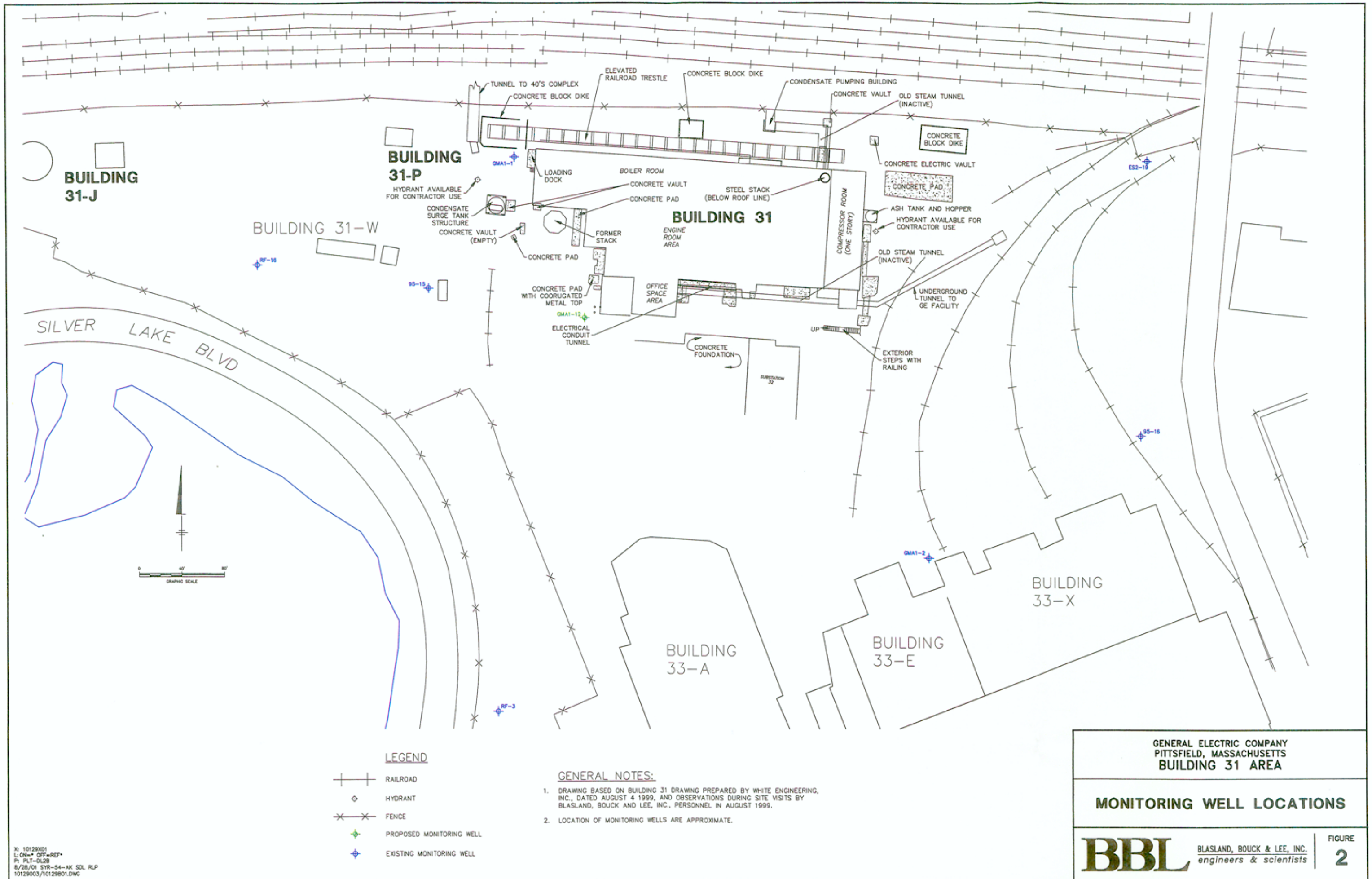
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**Basement Floor Survey, Well Location  
Figure, and Groundwater Elevation  
Tables**



# Figures





**BUILDING 31-J**

**BUILDING 31-P**  
HYDRANT AVAILABLE FOR CONTRACTOR USE

BUILDING 31-W

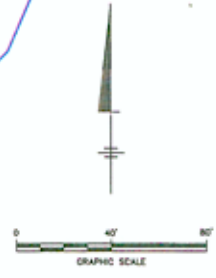
**BUILDING 31**

BUILDING 33-X

BUILDING 33-A

BUILDING 33-E

SILVER LAKE BLVD



**LEGEND**

- +—+— RAILROAD
- ◇ HYDRANT
- x—x— FENCE
- ◆ PROPOSED MONITORING WELL
- ◆ EXISTING MONITORING WELL

**GENERAL NOTES:**

1. DRAWING BASED ON BUILDING 31 DRAWING PREPARED BY WHITE ENGINEERING, INC., DATED AUGUST 4 1999, AND OBSERVATIONS DURING SITE VISITS BY BLASLAND, BOUCK AND LEE, INC., PERSONNEL IN AUGUST 1999.
2. LOCATION OF MONITORING WELLS ARE APPROXIMATE.

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS  
BUILDING 31 AREA

**MONITORING WELL LOCATIONS**

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

X: 10129001  
L: ON\* OFF=REF\*  
P: PLT-DL2B  
8/28/01 SYR-54-AK SOL RLP  
10129003/10129801.DWG

# Tables

Table 1

General Electric Company  
Pittsfield, Massachusetts

Plant Site 1 Groundwater Management Area - 30s Complex  
Groundwater Elevations in Vicinity of Building 31

Well Name	Measuring Point Elev. (feet AMSL)	Sampling Date	Depth to Water (feet BMP)	Total Well Depth (feet BMP)	Corrected Water Elev. (feet AMSL)
95-15	986.38	8/17/01	9.76	16.70	976.62
95-16	1,007.65	8/17/01	15.85	22.82	991.80
ES2-19	1,007.22	8/17/01	13.58	18.68	993.64
GMA1-1	988.43	8/17/01	9.63	18.33	978.80
GMA1-2	1,006.75	8/17/01	16.13	16.22	990.62
RF-3	985.40	8/17/01	9.62	18.44	975.78
RF-16	987.91	8/17/01	9.64	20.77	978.27

**Notes:**

1. BMP: Below Measuring Point.
2. AMSL: Above Mean Sea Level.

Table 2

General Electric Company  
Pittsfield, Massachusetts

Plant Site 1 Groundwater Management Area - 30s Complex  
Average Spring Groundwater Elevations

Well Name	Sampling Date	Corrected Water Elev. (feet AMSL)	Average Water Elev. (feet AMSL)
95-15	Spring 96	978.49	977.62
	Spring 97	977.08	
	Spring 98	977.87	
	Spring 99	977.50	
	Spring 00	978.16	
	Spring 01	976.62	
95-16	Spring 96	992.31	992.16
	Spring 97	992.34	
	Spring 98	992.27	
	Spring 99	992.11	
	Spring 00	992.15	
	Spring 01	991.80	
RF-3	Spring 96	976.48	976.03
	Spring 97	975.93	
	Spring 98	975.98	
	Spring 99	975.81	
	Spring 00	975.90	
	Spring 01	976.09	
RF-16	Spring 96	979.01	978.83
	Spring 97	978.89	
	Spring 98	978.67	
	Spring 99	978.31	
	Spring 00	978.83	
	Spring 01	979.29	
ES2-19	Spring 98	994.47	993.95
	Spring 99	993.74	
	Spring 00	993.73	
	Spring 01	993.87	
GMA1-1	Spring 01	979.43	979.43
GMA1-2	Spring 01	990.63	990.63

**Notes:**

1. AMSL: Above Mean Sea Level.

Table 3

General Electric Company  
Pittsfield, Massachusetts

Building 31 Area  
Comparison of Spring 1994 and 2001 Groundwater Elevations

Well Name	Spring 2001 Groundwater Elevation (feet AMSL)	Spring 1994 Groundwater Elevation (feet AMSL)	Groundwater Elevation Change From 2001 to 1994 (feet)
II	984.15	984.00	-0.15
JJ	983.88	983.50	-0.38
KK	983.46	983.30	-0.16
N-R	983.35	983.21	-0.14
O-R	986.00	985.91	-0.09
UU-R	982.57	981.42	-1.15
Y	982.84	982.73	-0.11
U	982.46	980.87	-1.59
15R	976.22	973.80	-2.42
16R	977.59	976.50	-1.09
17R	976.38	974.91	-1.47
13	976.06	974.94	-1.12
14	976.53	975.24	-1.29
11R	976.11	977.11	1.00
65	977.87	978.09	0.22
ES2-10	978.80	979.49	0.69
ES2-9	978.16	979.57	1.41
6	979.50	979.49	-0.01
9-N	984.72	984.40	-0.32
20-N	984.11	984.24	0.13
19-N	983.63	983.88	0.25
11-N	983.42	983.76	0.34
17-N	983.25	983.53	0.28
23-N	983.34	983.65	0.31
24-N	983.53	983.85	0.32
27-N	985.80	986.05	0.25
<b>Average difference between 2001 and 1994 groundwater elevations</b>			<b>-0.24</b>

**Notes:**

1. AMSL: Above Mean Sea Level.