REPORT

WESTON Ref. No.

01-0192

MCP Phase II/RCRA Facility Investigation Report for Hill 78 Area/USEPA Area 2

Volume II of II

General Electric Company
Pittsfield, Massachusetts

August 1997

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

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VOLUME II OF II

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-1 - PGC parking Lot Soil/Debris Sampling

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
	101-74	RWR		

Mr. G. Grant Bowman

Re: General Electric Company
Sampling Program Report
ORGANIC Soil Piles

File: 101.74

Pursuant to our scope of services submitted to you in a letter dated September 15, 1987, we are pleased to submit the Results of the PCB sampling program conducted for the Soil Piles located in the Lower Organic Parking Lot (see Attachments). The sampling program was conducted between the week of September 29 through October 6, 1987 under the direction of Mr. Robert Rhodes of this office.

The sampling program focused the sampling protocols outlined in the September 15, 1987 letter. Sample locations were determined in the field, based on Actual Field conditions. Sample locations are shown on the enclosed attachments.

If you have any questions concerning the results presented in the attachments, please contact me at your convenience.

ERC

cc: Mr. Ronald F. Degroseilliers GE w/Attachment
Mr. Ben Brady, JR PE GE w/Attachment
Mr. William H. Bouck PE B/B w/o Attachment

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
ORDNANCE SOIL PILES SAMPLING PROGRAM	101-74-01			

PRELIMINARY

for SAND & GRAVEL

e following is a summary of the sample results for the sampling conducted the lower Ordnance parking lot soil piles. A drawing showing the ple location is attached (see Figure 1). An Analytical Report provided OBG Laboratories has also been included.

CB Sampling Results

B ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
p-C1	< 5	soil	Pile # 1,2,3 4	1.5' to 2.0'	composite from soil piles
p-C2	< 5	soil	Pile # 5,6,7 8	1.5' to 2.0'	composite from soil piles
p-C3	< 5	soil	Pile # 9,10,11 12	1.5' to 2.0'	composite from soil piles
p-C4	< 5	soil	Pile # 13,14,15 16	1.5' to 2.0'	composite from soil piles
p-C5	< 5	soil	Pile # 17,18,19 20	1.5' to 2.0'	composite from soil piles
p-C6	< 5	soil	Pile # 21,22,23 24	1.5' to 2.0'	composite from soil piles

BLASLAND & BOUCK ENGINEERS, P.C.

JECT	PROJ. NO.	BY	DATE	SHEET
ORD NANCE SOIL PILES SAMPLING PROGRAM	101-74-01			

PRELIMINARY

BID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
SP-C7	< 5	Soil	Pile # 25, 26, 27 28	1.5' to 2.0'	composite from soil piles
P-C8	< 5	soil	Pile # 29, 30, 31 32	1.5' to 2.0'	composite from soil piles
P-C9	< 5	Soil	Pile # 33, 34, 35 36, 37	1.5' to 2.0'	composite from soil piles
-C10	< 5	Soil	Pile # 66, 67, 68 69	1.5' to 2.0'	composite from soil piles
-C11	< 5	Soil	Pile # 62, 63, 64 65	1.5' to 2.0'	composite from soil piles
-C12	< 5	Soil	Pile # 58, 59, 60 61	1.5' to 2.0'	composite from soil piles
P-C13	5.3	Soil	Pile # 54, 55, 56 57	1.5' to 2.0'	composite from soil piles
SP-C14	< 5	Soil	Pile # 50, 51, 52	1.5' to 2.0'	composite from soil

BLASLAND & BOUCK ENGINEERS, P.C.

JECT	PROJ. NO.	BY	DATE	SHEET
ORD NANCE SOIL PILES SAMPLING PROGRAM	101-74-01			

PRELIMINARY

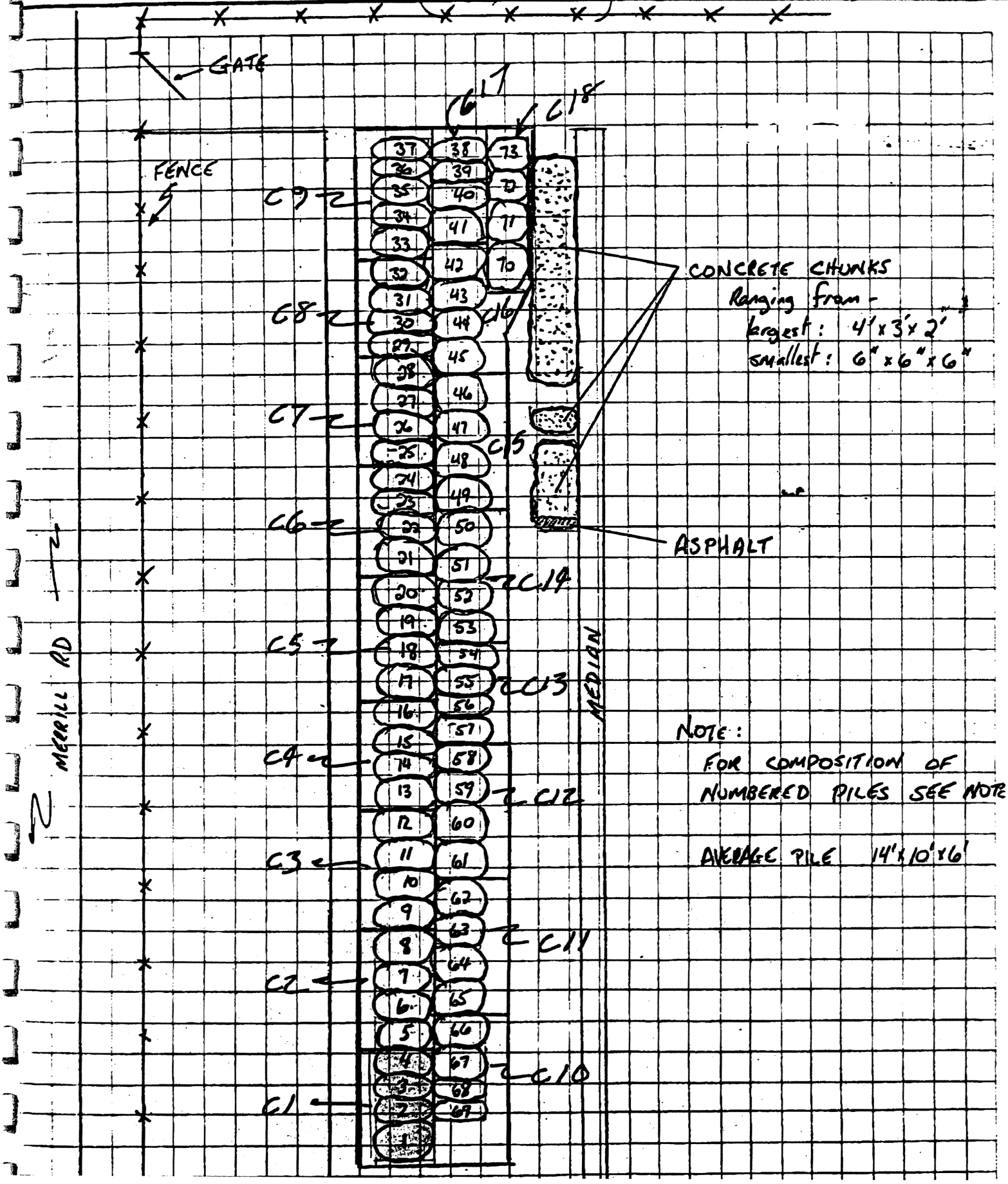
PB ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
SP-C15	< 5	soil	Pile# 46, 47, 48 49, 50	1.5' to 2.0'	composite from soil piles
SP-C16	< 5	soil	Pile# 42, 43, 44 45	1.5 to 2.0'	composite from soil piles
SP-C17	< 5	soil	Pile# 38, 39, 40 41	1.5' to 2.0'	composite from soil piles
-C18	< 5	Soil	Pile# 70, 71, 72 73	1.5' to 2.0'	composite from soil piles

BLASLAND & BOUCK ENGINEERS, P.C.

Figure I

1-6

SUBJECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDNANCE PARKING LOT (SAND & GRAVEL)		GAS	8/7/87	



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JECT	PROJ. NO.	BY	DATE	SHEET
ORDNANCE SOIL PILES SAMPLING PROGRAM	101-74-01			

PRELIMINARY

for Asphalt

he following is a summary of the sample results for the sampling ducted at the lower Ordnance parking lot soil piles. A drawing showing sample location is attached (see figure 2). An Analytical Report ovided by OBG Laboratories has also been included.

CB Sampling Results

B ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Type
SP-C19	< 5	Asphalt	Pile # 5, 8, 64 65, 67, 69	Asphalt composite core
SP-C20	14	Asphalt	Pile # 17, 18, 53 54, 57	Asphalt composite core
SP-C21	< 5	Asphalt	Pile # 20, 21, 22 23, 52	Asphalt composite core
P-C22	< 5	Asphalt	Pile # 26, 27, 28 29, 30, 31	Asphalt composite core
P-C23	< 5	Asphalt	Pile # 32, 33, 34 35, 36, 37	Asphalt composite core
P-C24	< 5	Asphalt	Pile # 72, 73, 70	Asphalt composite core

JECT	PROJ. NO.	BY	DATE	SHEET
RDNANCE SOIL PILES SAMPLING PROGRAM				

PRELIMINARY

B ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Type
)-C25	< 5	Asphalt	Pile #74	Asphalt Discrete Core

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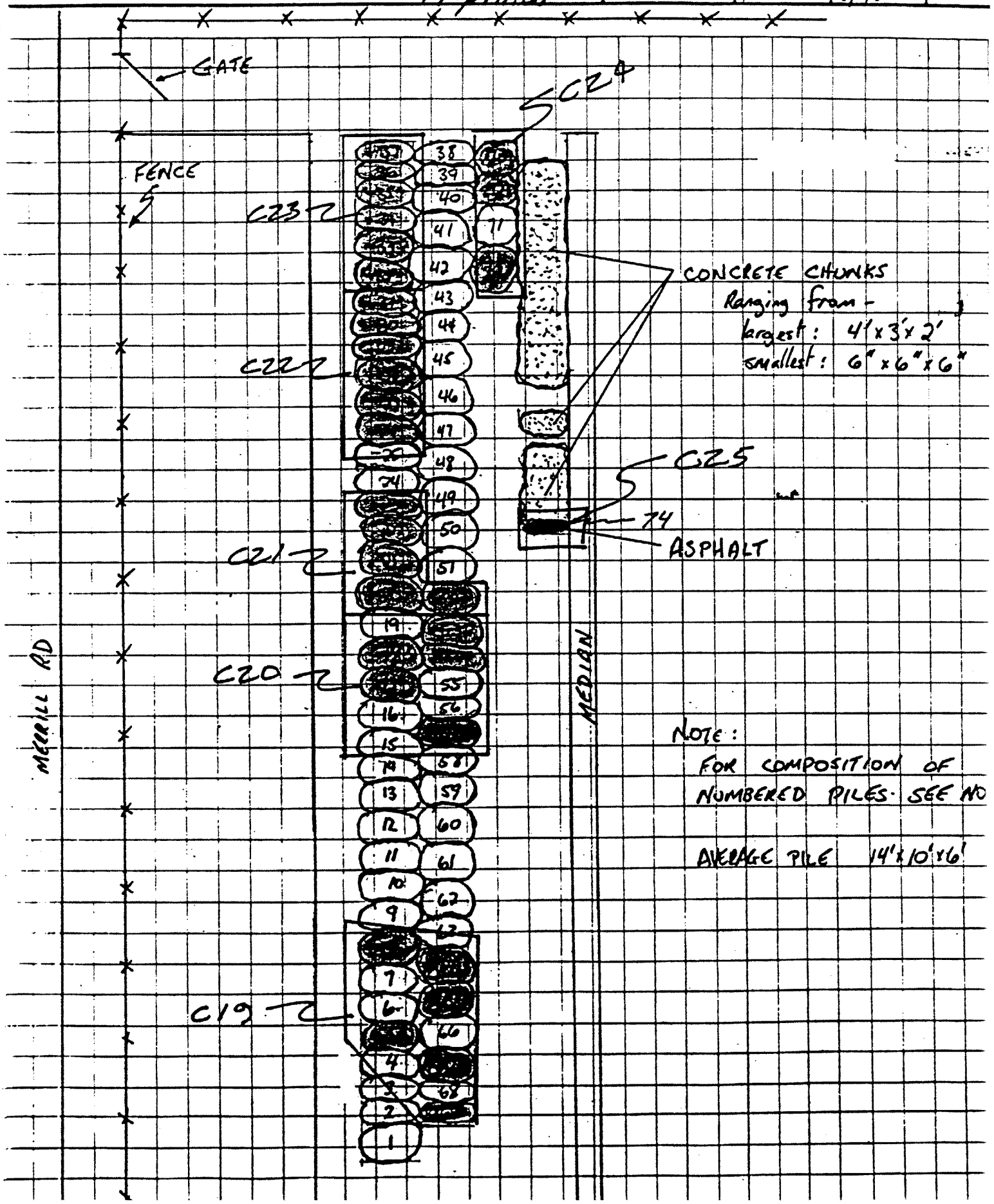
Fig 2

SUBJECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDNANCE PARKING LOT Asphalt		GAG	8/7/87	



NOTE:
FOR COMPOSITION OF NUMBERED PILES SEE NO

AVERAGE PILE 14' x 10' x 6'

JECT	PROJ. NO.	BY	DATE	SHEET
RDNANCE SOIL PILES SAMPLING PROGRAM	101-77-01			

PRELIMINARY

following is a summary of the sample results for the sampling conducted for concrete the lower Ordnance parking lot soil piles. A drawing showing the sample tion is attached (see Figure 3). An Analytical Report provided by G Laboratories has also been included.

B Sampling Results

B ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
0-C26	< 5	concrete	Pile # 48, 51 52, 56	3"	concrete composite core
0-C27	< 5	concrete	Pile # 72, 73 40	3"	concrete composite core
0-C28	< 5	concrete	Pile # 75, 76 77	3"	concrete composite core
0-C29	< 5	concrete	Pile # 78, 79	3"	concrete composite core

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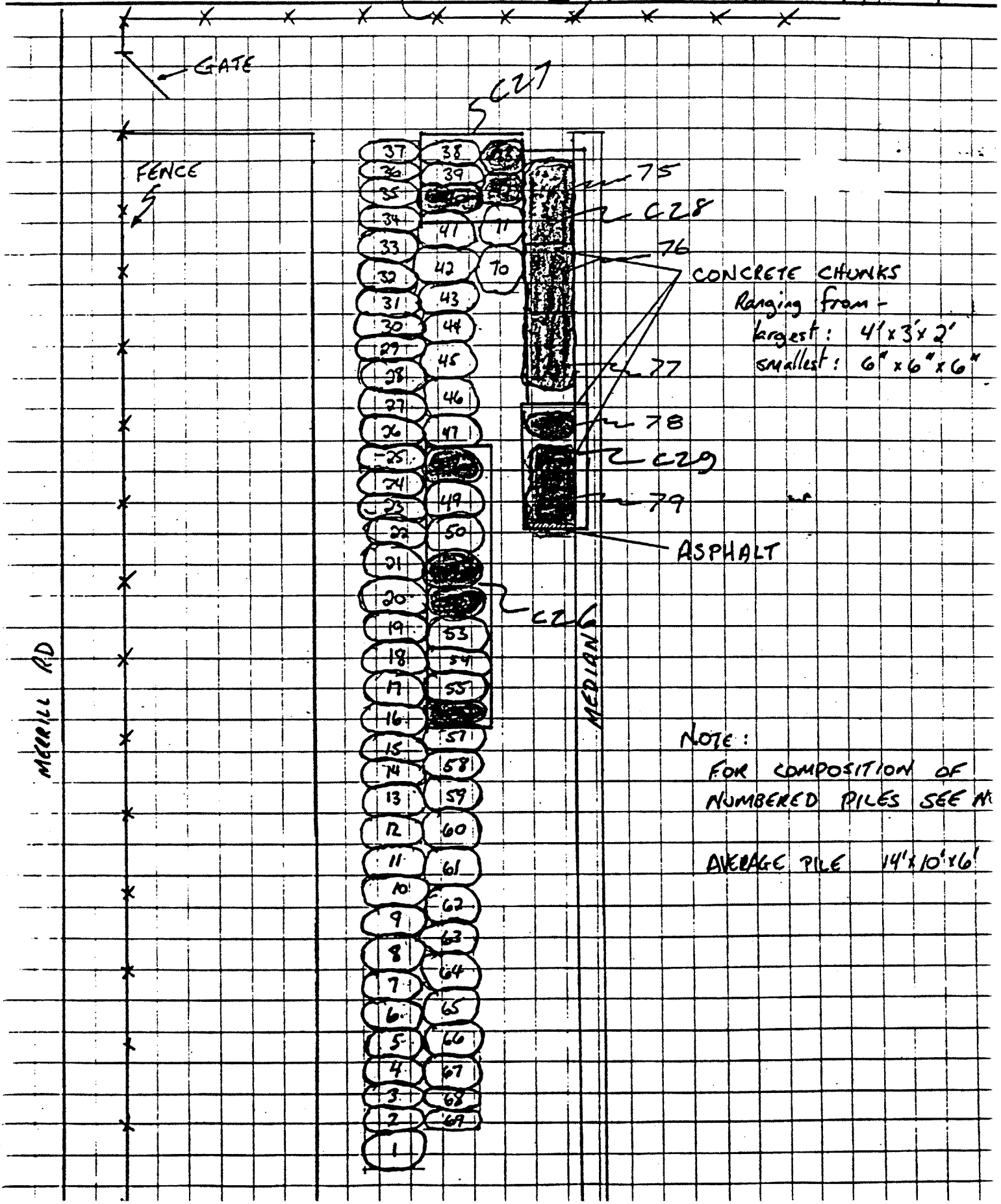
Figure 3

SUBJECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDNANCE PARKING LOT (Corrected)		GAG	8/7/87	



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JECT	PROJ. NO.	BY	DATE	SHEET
RDNANCE SOIL PILES SAMPLING PROGRAM	101-74-01			

PRELIMINARY

following is a summary of the sample results for the sampling ducted at the lower Ordnance parking lot soil piles. A drawing showing sample location is attached (see figure 4). An Analytical Report ided by OBG Laboratories has also been included.

for wood

3 Sampling Results

B ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
0-C30	< 5	WOOD	Pile #1,4	3"	WOOD Composite Core
0-C33	< 5	WOOD	Pile #72	3"	WOOD Discrete core
0-C35	< 5	WOOD	Pile #24,25 32	3"	WOOD composite Core
0-C36	< 5	WOOD	Pile #55,58 60	3"	WOOD composite Core
0-C37	< 5	WOOD	Pile #63,64 66	3"	WOOD composite Core

lote:

1 LABORATORY ID Numbers OSP-C31, OSP-C32 AND OSP-C34 were NOT used for this program.

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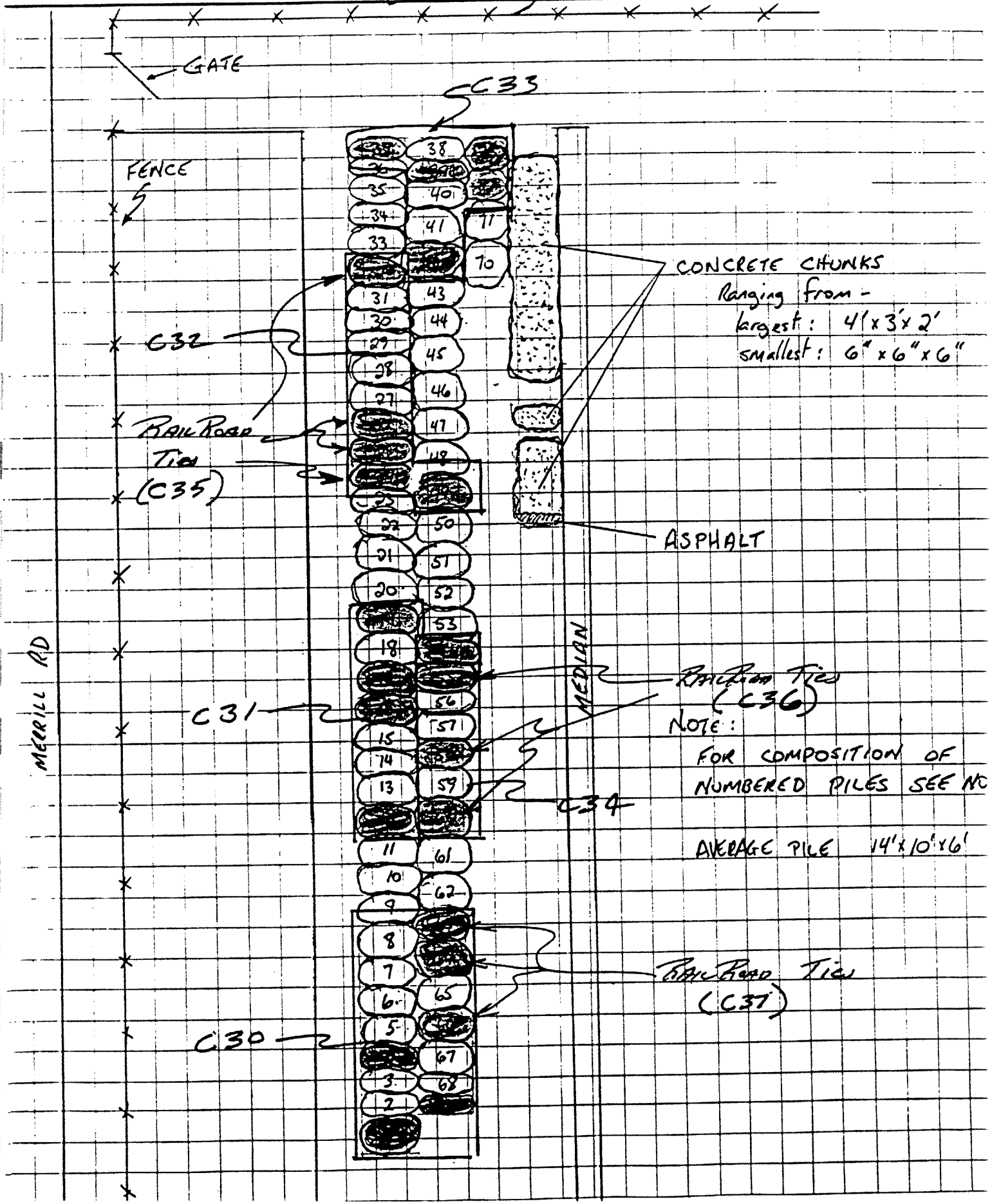
Figure 4

SUBJECT	PROJ NO.	BY	DATE	SHEET
LOWER ORDNANCE PARKING LOT (WOOD)		GRG	8/7/87	



BLASLAND & BOUCK ENGINEERS, P.C.

1-1

SUBJECT	PROJ. NO.	BY	DATE	SHEET
ORDNANCE SOIL PILES SAMPLING PROGRAM	101-74-01			

PRELIMINARY

for Brick

e following is a summary of the sample results for the sampling nducted at the lower lower Ordnance parking lot soil piles. A drawing owing the sample location is attached (see figure). An Analytical Report ovided by OBG Laboratories has also been included.

B Sampling Results

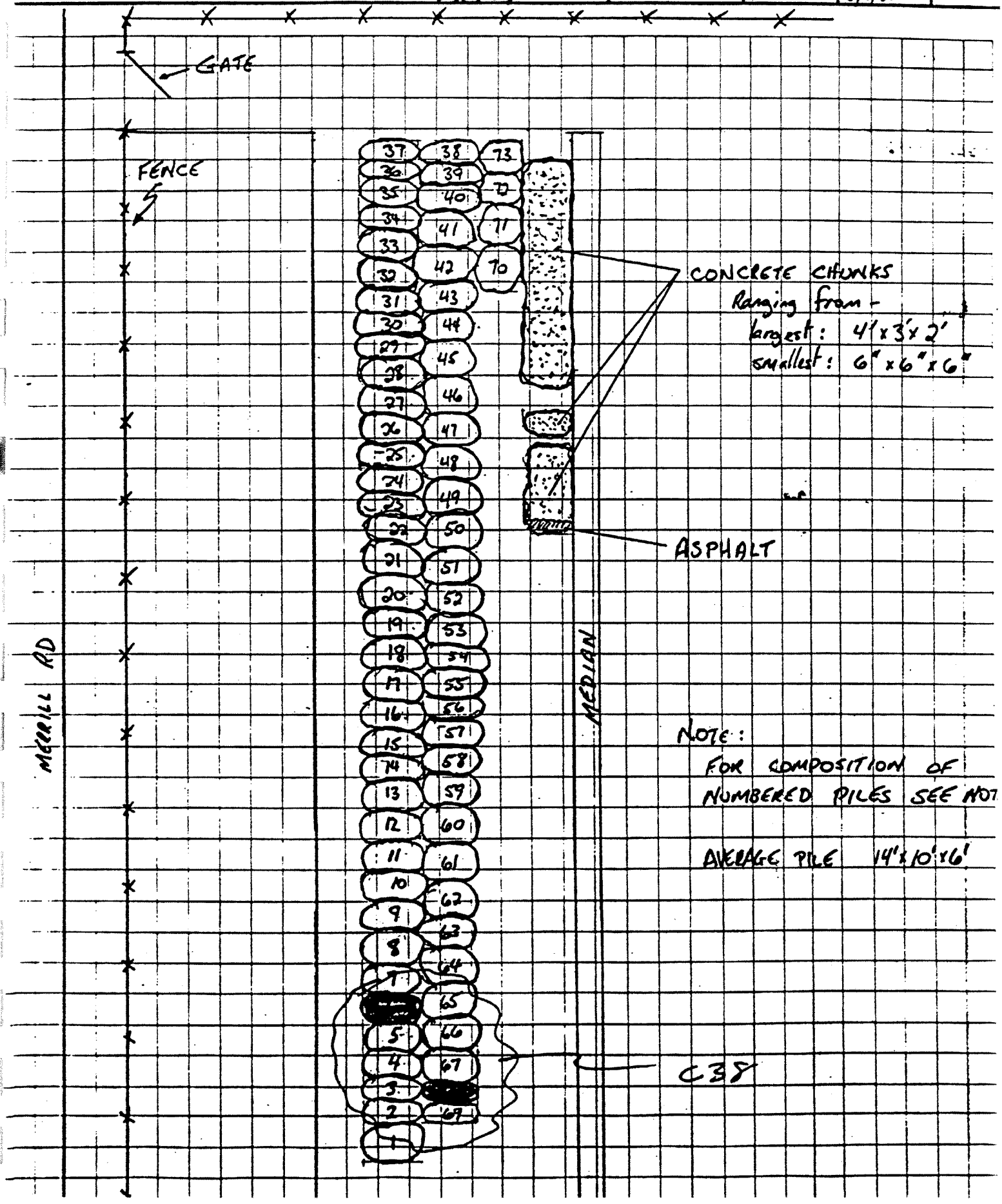
B ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
0-C38	< 5	Brick	Pile # 68, 6	2" to 5"	Brick composi core

BLASLAND & BOUCK ENGINEERS, P.C.

Figure 5

1-1

SUBJECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDNANCE PARKING LOT BRICK		GAG	8/7/87	



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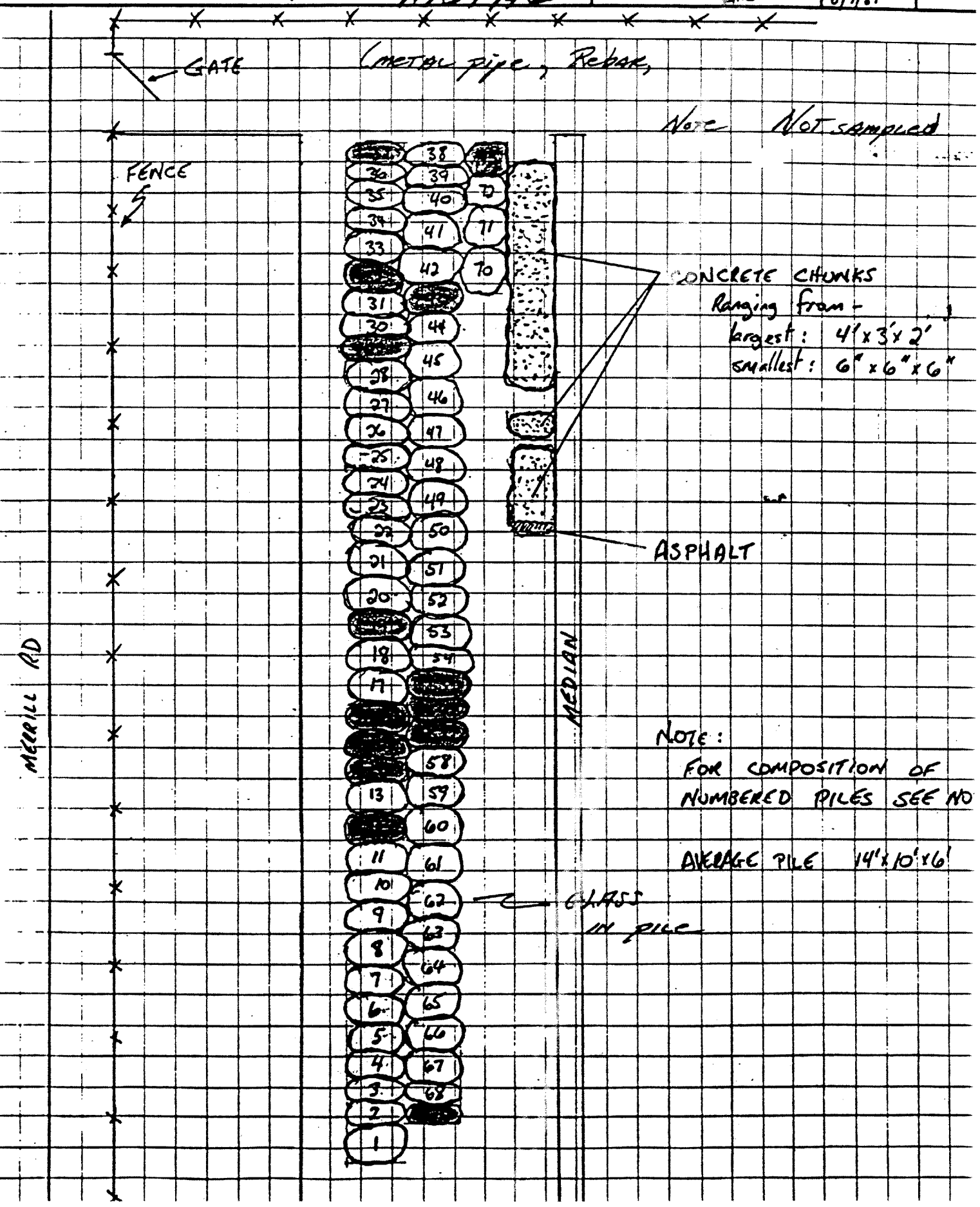
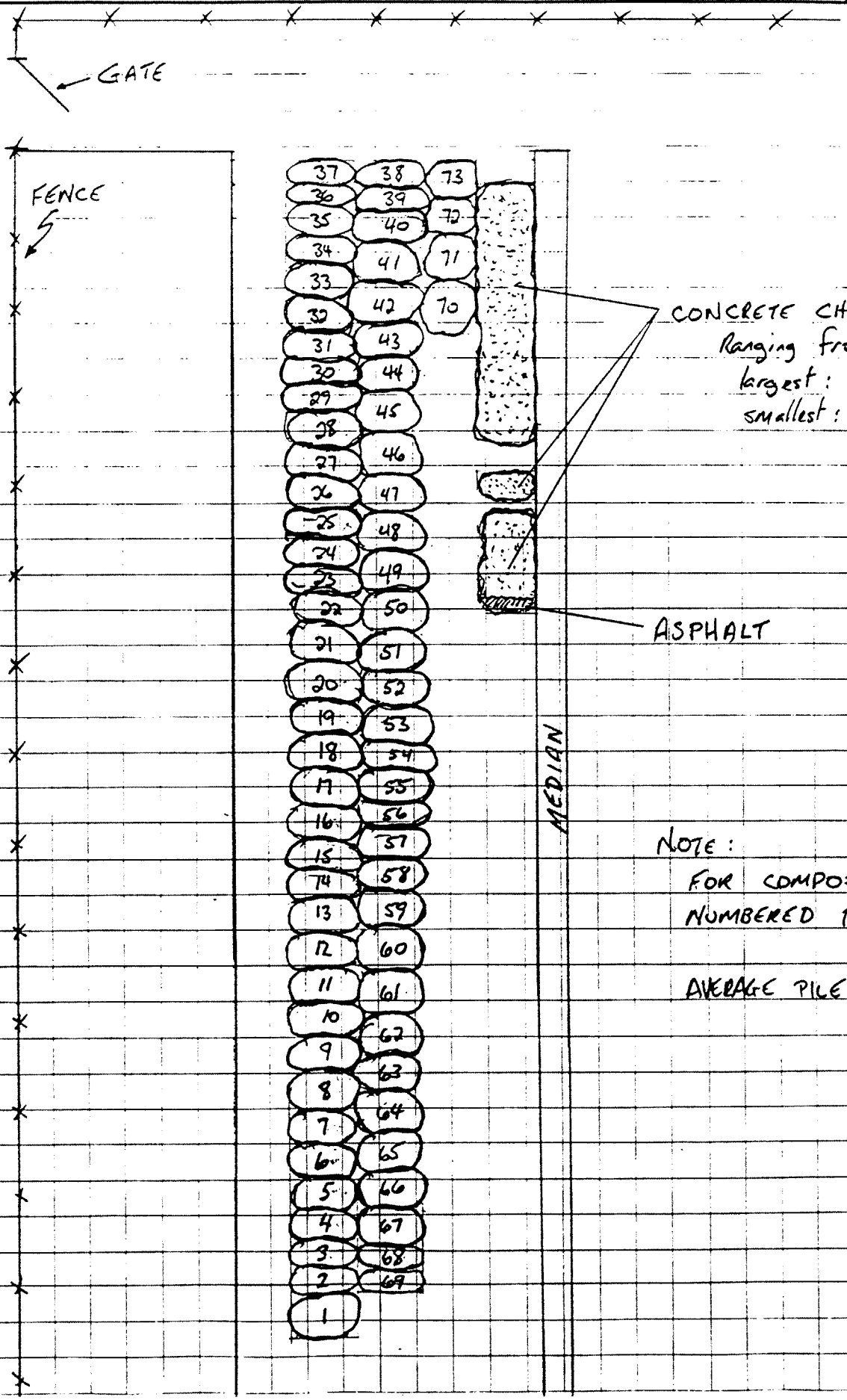
SUBJECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDNANCE PARKING LOT METAL		GAG	8/7/87	



BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDINANCE PARKING LOT		GRG	8/7/87	



BLASLAND & BOUCK ENGINEERS, P.C.

JECT	PROJ. NO.	BY	DATE	SHEET

Sample Material	Qty	Cost
Sand & Gravel	18	
Concrete	4	
Asphalt	7	
Wood	5	
Railroad ties	3	
Brick	1	
Misc	5	
subtotal	43	
QA/QC Samples	5	
Blanks	2	
subtotal	7	
Total	50	

PILE # 1 - SAND WITH WOOD BOARDS ON TOP OF PILE
" 2 - GRAVEL + SAND
" 3 - " "
" 4 - WOOD BOARD IN PILE OF SAND + GRAVEL
" 5 - ASPHALT IN PILE OF SAND + GRAVEL
" 6 - BRICK IN PILE OF SAND + GRAVEL
" 7 - SAND + GRAVEL
" 8 - ASPHALT IN PILE OF SAND + GRAVEL
" 9 - " " "
" 10 - SAND + GRAVEL
" 11 - " "
" 12 - WOOD + METAL PIECES IN PILE OF SAND + GRAVE
" 13 - SAND + GRAVEL
" 14 - METAL PIECE IN PILE OF SAND + GRAVEL
" 15 - METAL PIECES IN PILE OF SAND + GRAVEL
" 16 - METAL PIPE + PIECES OF WOOD IN PILE OF SAND + GRAVE
" 17 - ASPHALT + WOOD IN PILE OF SAND + GRAVEL
" 18 - ASPHALT IN PILE OF SAND + GRAVEL
" 19 - METAL PIECES + WOOD IN PILE OF SAND + GRAVE
" 20 - ASPHALT IN PILE OF SAND + GRAVEL
" 21 - " " "
" 22 - " " "
" 23 - " " "
" 24 - ASPHALT + RAILROAD TIE IN PILE OF SAND + GRAVE
" 25 - RAILROAD TIES IN PILE OF SAND + GRAVEL
" 26 - RAILROAD TIES + ASPHALT IN PILE OF SAND + GRAVEL
" 27 - " " "
" 28 - ASPHALT IN PILE OF SAND + GRAVEL

JECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDANANCE PARKING LOT				

PILE # 29 - ASPHALT & METAL PIECES IN PILE OF SAND + GRAVE
" 30 - ASPHALT IN PILE OF SAND + GRAVEL
" 31 - " " "
" 32 - ASPHALT, METAL PIECES + RAILROAD TIES IN PILE OF SAN GRAV
" 33 - ASPHALT IN PILE OF SAND + GRAVEL
" 34 - " "
" 35 - " "
" 36 - " "
" 37 - ASPHALT, METAL PIECES + WOOD IN PILE OF SAND + GRAV
" 38 - SAND + GRAVEL
" 39 - WOOD IN PILE OF SAND + GRAVEL
" 40 - CONC. IN PILE OF SAND + GRAVEL
" 41 - SAND + GRAVEL
" 42 - WOOD IN PILE OF SAND + GRAVEL
" 43 - METAL IN PILE OF SAND + GRAVEL
" 44 - SAND + GRAVEL
" 45 - " "
" 46 - " "
" 47 - " "
" 48 - CONC. IN PILE OF SAND + GRAVEL
" 49 - WOOD IN PILE OF SAND + GRAVEL
" 50 - SAND + GRAVEL
" 51 - CONC. IN PILE OF SAND + GRAVEL
" 52 - ASPHALT + CONCRETE IN PILE OF SAND + GRAVEL
" 53 - ASPHALT IN PILE OF SAND + GRAVEL
" 54 - ASPHALT + WOOD IN PILE OF SAND + GRAVEL
" 55 - METAL PIECES + RAILROAD TIE IN PILE OF SAND + GRAVE
" 56 - IRON PIPE REBAR + CONC. IN PILE OF SAND + GRAVEL

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
LOWER ORDANANCE PARKING LOT				

PILE # 57 - REBAR, CONC. ASPHALT, + METAL PIECES IN PILE OF SAND + GRAVE

" 58 - RAILROAD TIE IN PILE OF SAND + GRAVEL

" 59 - SAND + GRAVEL

" 60 - RAILROAD TIE IN PILE OF SAND + GRAVEL

" 61 - " " "

" 62 - GLASS, WOOD IN PILE OF SAND + GRAVEL

" 63 - RAILROAD TIE IN PILE OF SAND + GRAVEL

" 64 - RAILROAD TIE + ASPHALT IN PILE OF SAND + GRAVEL

" 65 - WOOD + ASPHALT IN PILE OF SAND + GRAVEL

" 66 - RAILROAD TIE + WOOD IN PILE OF SAND + GRAVEL

" 67 - ASPHALT IN PILE OF SAND + GRAVEL

" 68 - BRICK IN PILE OF SAND + GRAVEL

" 69 - WOOD, ASPHALT, METAL IN PILE OF SAND + GRAVEL

" 70 - ASPHALT IN PILE OF SAND + GRAVEL

" 71 - SAND + GRAVEL

" 72 - ASPHALT, CONC. + WOOD IN PILE OF SAND + GRAVEL

" 73 - ASPHALT, CONC. WOOD + METAL PIPE IN PILE OF SAND + GRAVEL

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-74-01

DATE COLLECTED See Below DATE REC'D. 10-5-87 DATE ANALYZED 10-6-87

LAB ID NO.	DATE SAMPLED	PCB mg/kg dry weight	COMMENTS
OSP-C1	10-[illegible]-87	<5.	Soil
OSP-C2		<5.	
OSP-C3		<5.	
OSP-C4		<5.	
OSP-C5		<5.	
OSP-C6		<5.	
OSP-C7		<5.	
OSP-C8		<5.	
OSP-C9		<5.	
OSP-C9, Duplicate		<5.	RPD = 0%
OSP-C10		<5.	
OSP-C13, Matrix Spike		273.6/300.8	= 91%
Lab Blank-3	10-5-87	<5.	

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: [signature]

Date: October 18, 1987

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-74-01

DATE COLLECTED See Below DATE REC'D. 10-5-87 DATE ANALYZED 10-7-87

LAB ID NO.	DATE SAMPLED	PCB mg/kg dry weight	COMMENTS
OSP-C11	10-1-87	<5	Soil
OSP-C12		<5.	
OSP-C12, Duplicate		<5.	RPD 0%
OSP-C13		5.3	
OSP-C14		<5.	
OSP-C15		<5.	
OSP-C15, Matrix Spike		282.6/500 &	= 94%
OSP-C16		<5.	
OSP-C17		<5.	
OSP-C18		<5.	
OSP-C19		<5.	Asphalt
OSP-C20		14.	Asphalt
Lab Blank	10-6-87	<5.	

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: [signature]

Date: October 18, 1987

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

OBG
LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-74-01

DATE COLLECTED See Below DATE REC'D. 10-5-87 DATE ANALYZED 10-7-87

LAB ID NO.	DATE SAMPLED	PCB mg/kg	COMMENTS
OSP-C21	10-1-87	<5.	Asphalt
PSP-C22		<5.	
OSP-C23		<5.	
OSP-C24		<5.	
OSP-C25		<5.	
OSP-C26		<5.	Concrete
OSP-C27		<5.	
OSP-C28		<5.	
OSP-C28, Duplicate		<5.	RPD = 0%
OSP-C29		<5.	
OSP-C29, Matrix Spike		300.8/300.8	= 100%
OSP-C30	10-2-87	<5.	Wood
Lab Blank 2	10-2-87	<5.	
OSP-C33	10-2-87	<5.	Wood
OSP-C36		<5.	
OSP-C37		<5.	
OSP-C37, Duplicate		<5.	RPD = 0%
OSP-C38		<5.	Wood
OSP-C38, Matrix Spike		292.0/300.8	= 97%
Lab Blank 3	10-7-87	<5.	

Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: October 18, 1987

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT: GE PITTSFIELD
JOB No.: 101-74-01

LAB I.D. No.: SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C1	OSP-1S	10-1-87	SOIL
	OSP-3S	10-1-87	SOIL
OSP-C2	OSP-5S	10-1-87	SOIL
	OSP-7S	10-1-87	SOIL
OSP-C3	OSP-9S	10-1-87	SOIL
	OSP-11S	10-1-87	SOIL
OSP-C4	OSP-13S	10-1-87	SOIL
	OSP-15S	10-1-87	SOIL

CHECK ONE:
- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

OR BILL No.: OBG LAB GE PITTSFIELD

	Company	Lab Location	Date / Time
1. Relinquished by: Bruce Eckler	BLASLAND & BOUCK	GE PITTSFIELD	10-5-87 - 9:00
Received by:			
2. Relinquished by:			
Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

LAB I.D. No. : SEE BELOW

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C5	OSP-17S	10-1-87	SOIL
	OSP-19S	10-1-87	SOIL
OSP-C6	OSP-21S	10-1-87	SOIL
	OSP-23S	10-1-87	SOIL
OSP-C7	OSP-25S	10-1-87	SOIL
	OSP-27S	10-1-87	SOIL
OSP-C8	OSP-29S	10-1-87	SOIL
	OSP-31S	10-1-87	SOIL

CHECK ONE:
- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : OBG LAB GE PITTSFIELD

		Company	Lab Location	Date / Time
1. Relinquished by:	Bruce Eidson	BLASLAND & BOUCK	GE PITTSFIELD	10-5-87 - 9:0
Received by:				
2. Relinquished by:				
Received by:				

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : See Below

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C17	OSP-41S	10-1-87	SOIL
	OSP-39S	10-1-87	SOIL
OSP-C18	OSP-73S	10-1-87	SOIL
	OSP-71S	10-1-87	SOIL

CHECK ONE:
- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : OBG GE PITTSFIELD

	Company	Lab Location	Date / Time
1. Relinquished by: Bruce Eisher	Blasland & Bouck	GE Pittsfield	10-5-87 - 9:00
Received by:			
2. Relinquished by:			
Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT: GE PITTSFIELD
JOB No.: 101-74-01

LAB I.D. No.: SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C13	OSP-57S	10-1-87	Soil
	OSP-55S	10-1-87	Soil
OSP-C14	OSP-53S	10-1-87	Soil
	OSP-51S	10-1-87	Soil
OSP-C15	OSP-49S	10-1-87	Soil
	OSP-47S	10-1-87	Soil
OSP-C16	OSP-45S	10-1-87	Soil
	OSP-43S	10-1-87	Soil

CHECK ONE:

- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No.: OBG LAB GE PITTSFIELD

	Company	Lab Location	Date / Time
1. Relinquished by: Brian Dubois	BLASLAND + BOUCK	GE PITTSFIELD	10-5-87 - 9:00
Received by:			
2. Relinquished by:			
Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal Signature

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C19	OSP-5A	10-1-87	ASPHALT
	OSP-64A	10-1-87	ASPHALT
	OSP-67A	10-1-87	ASPHALT
OSP-C20	OSP-17A	10-1-87	ASPHALT
	OSP-53A	10-1-87	ASPHALT
	OSP-57A	10-1-87	ASPHALT
OSP-C21	OSP-20A	10-1-87	ASPHALT
	OSP-22A	10-1-87	ASPHALT
	OSP-52A	10-1-87	ASPHALT

CHECK ONE:
- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : 086 LAB GE PITTSFIELD

		Company	Lab Location	Date / Time
1. Relinquished by:	Bruce Eubin	BLASLAND & BOUCK	GE PITTSFIELD	10-5-87-9:00
Received by:				
2. Relinquished by:				
Received by:				

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C22	OSP-26A	10-1-87	ASPHALT
	OSP-28A	10-1-87	ASPHALT
	OSP-30A	10-1-87	ASPHALT
OSP-C23	OSP-32A	10-1-87	ASPHALT
	OSP-34A	10-1-87	ASPHALT
	OSP-36A	10-1-87	ASPHALT
OSP-C24	OSP-73A	10-1-87	ASPHALT
	OSP-70A	10-1-87	ASPHALT

CHECK ONE:

- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : OBG GE PITTSFIELD

	Company	Lab Location	Date / Time
1. Relinquished by: Bruce Eustis	BLASLAND + BOUCK	GE PITTSFIELD	10-5-87 - 9:00
Received by:			
2. Relinquished by:			
Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C25	OSP-74A	10-1-87	ASPHALT

CHECK ONE:
- ☒ Analyze Separately for PCBs.
- ☐ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : OBG GE PITTSFIELD

		Company	Lab Location	Date / Time
1.	Relinquished by: Bruce Eubin	BLASLAND & BOUCK	GE PITTSFIELD	10-5-87-9:4
	Received by:			
2.	Relinquished by:			
	Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C26	OSP-48C	10-1-87	CONCRETE
	OSP-52C	10-1-87	CONCRETE
OSP-C27	OSP-72-C	10-1-87	CONCRETE
	OSP-40-C	10-1-87	CONCRETE
OSP-C28	OSP-75C	10-1-87	CONCRETE
	OSP-76C	10-1-87	CONCRETE
	OSP-77C	10-1-87	CONCRETE
OSP-C29	OSP-78C	10-1-87	CONCRETE
	OSP-79C	10-1-87	CONCRETE

CHECK ONE:

- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : ORG LAB GE PITTSFIELD

		Company	Lab Location	Date / Time
1. Relinquished by:	Bruce Eubin	BLASLAND & BOUCK	GE PITTSFIELD	10-5-87 - 9:00
Received by:				
2. Relinquished by:				
Received by:				

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No.: 101-74-01

LAB I.D. No.: SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C30	OSP-1W	10-2-87	WOOD
	OSP-4W	10-2-87	WOOD

CHECK ONE:
- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No.: OBG GE PITTSFIELD

	Company	Lab Location	Date / Time
1. Relinquished by: Bruce Eldin	BLASLAND-BOUCK	GE PITTSFIELD	10-5-87 - 9:00
Received by:			
2. Relinquished by:			
Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C33	OSP-72W	10-2-87	WOOD

CHECK ONE:

- ☒ Analyze Separately for PCBs.
- ☐ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : OBG GE PITTSFIELD

		Company	Lab Location	Date / Time
1.	Relinquished by: Bruce Gilbain	BLASLAND-BOUCK	GE PITTSFIELD	10-5-87 - 9:0
	Received by:			
2.	Relinquished by:			
	Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : SEE BELOW

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
OSP-C35	OSP-24W	10-2-87	WOOD
	OSP-25W	10-2-87	WOOD
	OSP-32W	10-2-87	WOOD
OSP-C36	OSP-55W	10-2-87	WOOD
	OSP-58W	10-2-87	WOOD
	OSP-60W	10-2-87	WOOD
OSP-C37	OSP-63W	10-2-87	WOOD
	OSP-64W	10-2-87	WOOD
	OSP-66W	10-2-87	WOOD

CHECK ONE:

- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : OBG GE PITTSFIELD

	Company	Lab Location	Date / Time
1. Relinquished by: Bruce Eidlin	BLASLAND & BOUCK	GE PITTSFIELD	10-5-87 - 9:00
Received by:			
2. Relinquished by:			
Received by:			

SAMPLE DISPOSAL : ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 1

PROJECT : GE PITTSFIELD
JOB No. : 101-74-01

LAB I.D. No. : OSP-C38

PRIORITY
- ☐ 1 - 1 DAY (24 hrs.)
- ☐ 2 - 3 DAYS (Rush)
- ☐ 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
	OSP-68B	10-2-87	BRICK
	OSP-6B	10-2-87	BRICK

CHECK ONE:
- ☐ Analyze Separately for PCBs.
- ☒ Composite Equal Weights and Analyze for PCBs.
- ☐ Special Instructions _____

AIR BILL No. : OBG GE PITTSFIELD

		Company	Lab Location	Date / Time
1.	Relinquished by: Bruce Eilers	BLASLAND, BOUCK	GE PITTSFIELD	10-5-87-9:
	Received by:			
2.	Relinquished by:			
	Received by:			

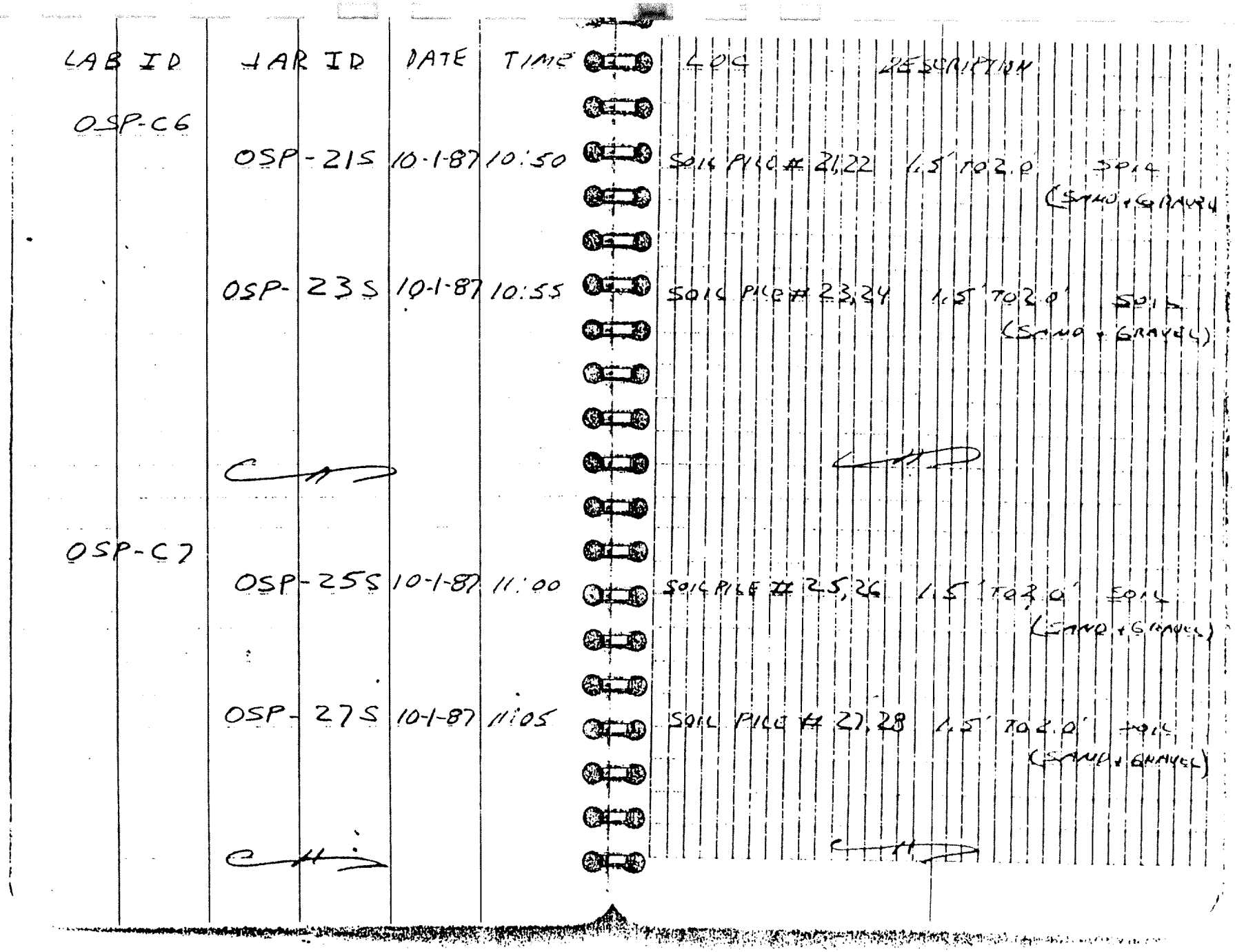
SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

LAB ID	JAR ID	DATE	TIME	LOC	DESCRIPTION
OSP-C1					
	OSP-1S	10-1-87	10:00	SOIL PILE #1,2	1.5' TO 2.0' SOIL (SAMPLE)
	OSP-3S	10-1-87	10:05	SOIL PILE #3,4	1.5' TO 2.0' SOIL (SAMPLE + GRAVEL)
OSP-C2					
	OSP-5S	10-1-87	10:10	SOIL PILE #5,6	1.5' TO 2.0' SOIL (SAMPLE + GRAVEL)

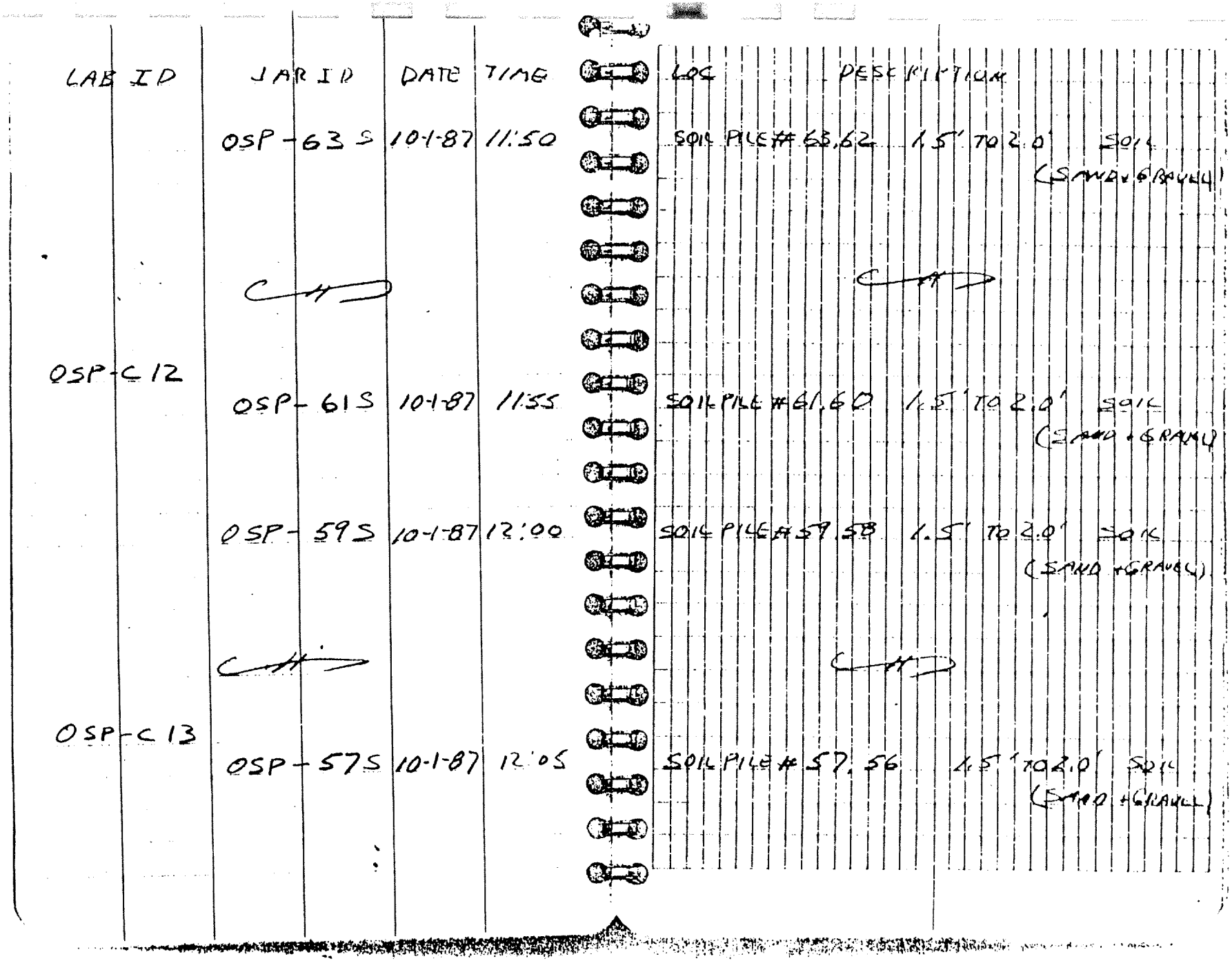
LAB ID	JAR ID	DATE	TIME	LOC	DESCRIPTION
	OSP-7S	10-1-87	10:15	SOIL PILE #7,8	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C3					
	OSP-9S	10-1-87	10:20	SOIL PILE #9,10	1.5' TO 2.0' SOIL (SAND + GRAVEL)
	OSP-11S	10-1-87	10:25	SOIL PILE #11,12	1.5' TO 2.0' SOIL (SAND + GRAVEL)

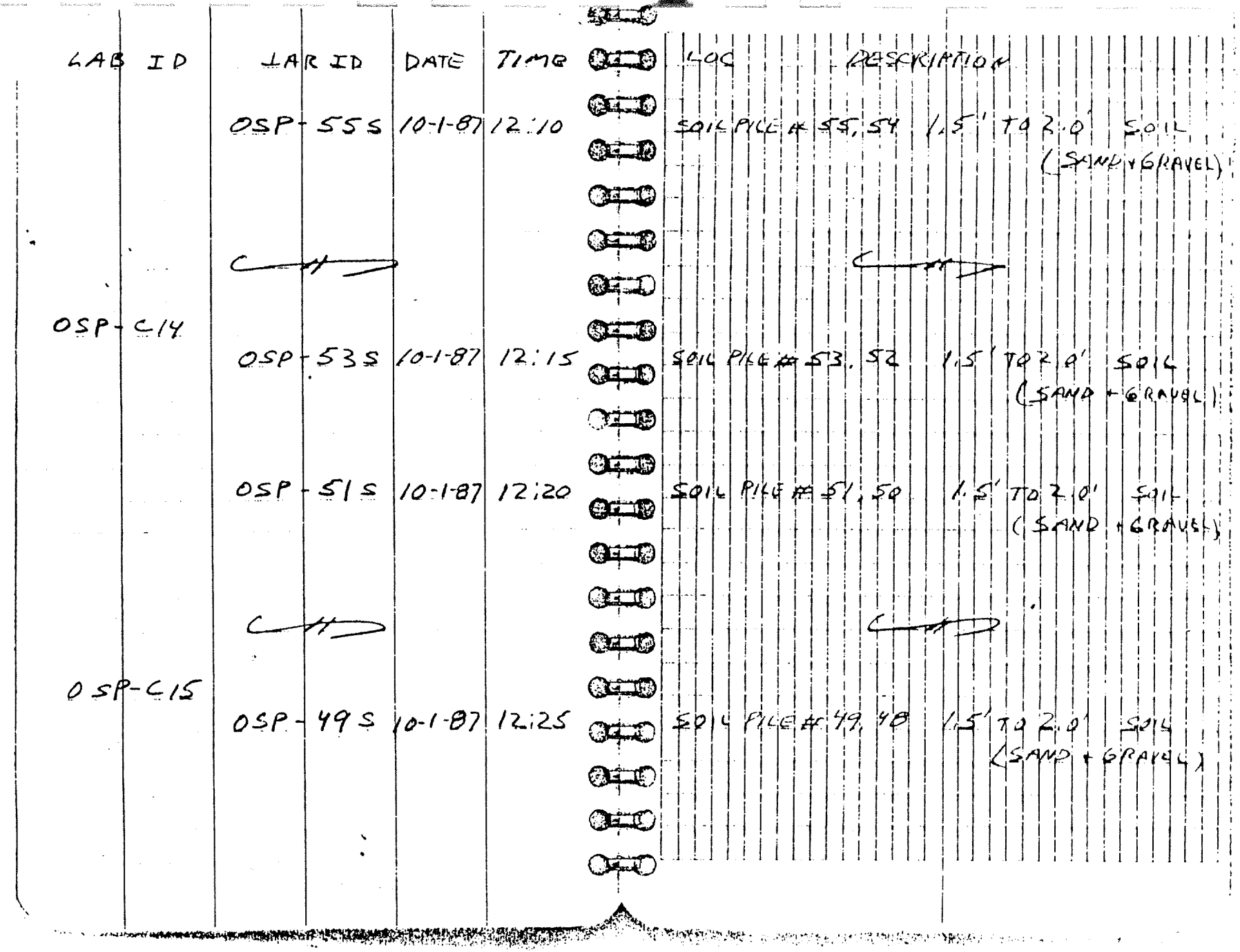
LAB ID	JAR ID	DATE	TIME	LOC	DESCRIPTION
OSP-C4					
	OSP-13S	10-1-87	10:30	SOIL PILE #13,14	1.5' TO 2.0' SOIL (SAND, GRAVEL)
	OSP-15S	10-1-87	10:35	SOIL PILE #15,16	1.5' TO 2.0' SOIL (SAND, GRAVEL)
OSP-C5					
	OSP-17S	10-1-87	10:40	SOIL PILE #17,18	1.5' TO 2.0' SOIL (SAND, GRAVEL)
	OSP-19S	10-1-87	10:45	SOIL PILE #19,20	1.5' TO 2.0' SOIL (SAND, GRAVEL)


LAB ID
JAR ID
DATE
TIME
LOG
DESCRIPTION
OSP-C6
OSP-21S 10-1-87 10:50 SOIL PILE # 21,22 1.5' TO 2.0' SP14 (SAND + GRAVEL)
OSP-23S 10-1-87 10:55 SOIL PILE # 23,24 1.5' TO 2.0' SP15 (SAND + GRAVEL)
OSP-C7
OSP-25S 10-1-87 11:00 SOIL PILE # 25,26 1.5' TO 2.0' SP16 (SAND + GRAVEL)
OSP-27S 10-1-87 11:05 SOIL PILE # 27,28 1.5' TO 2.0' SP17 (SAND + GRAVEL)

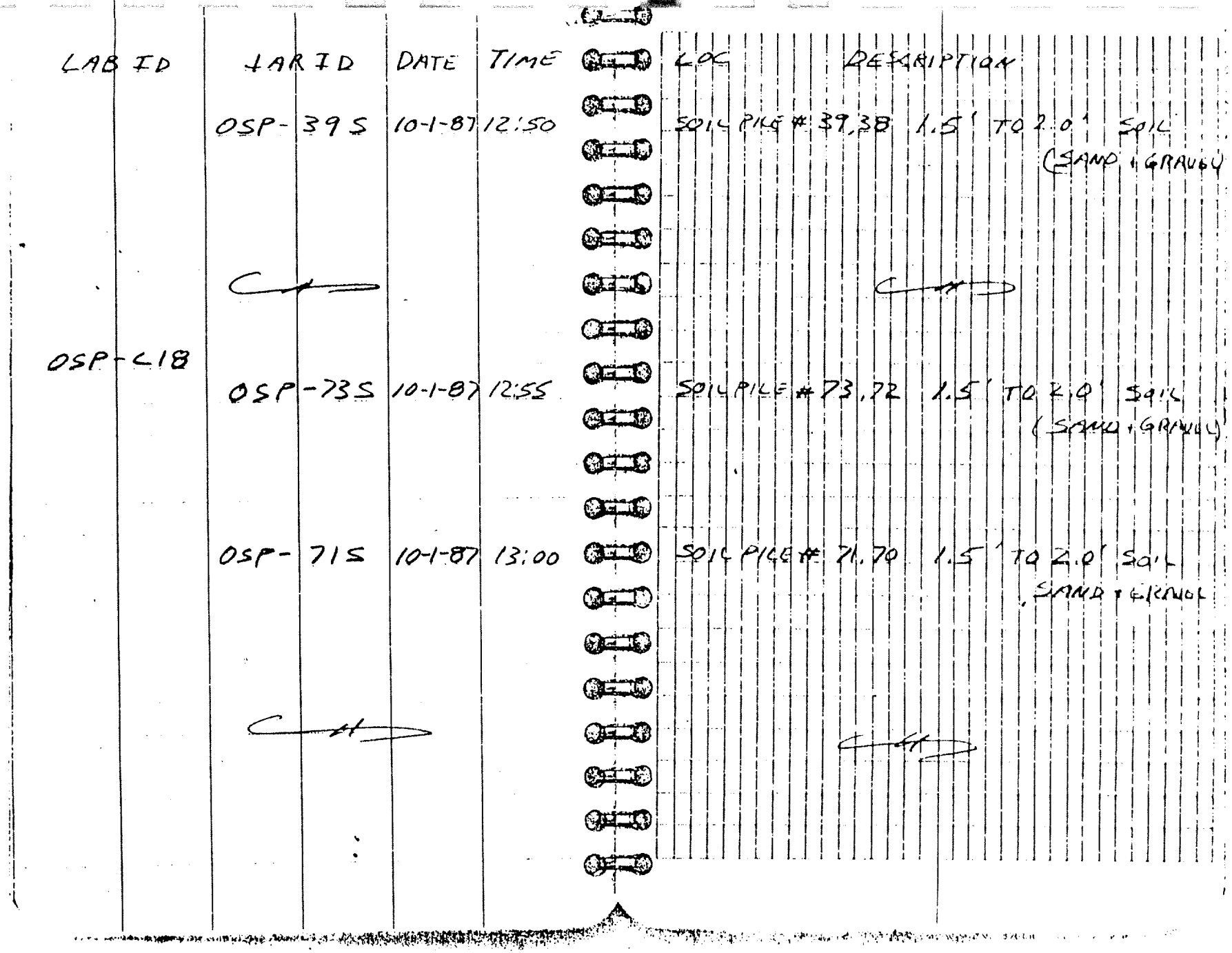
LAB ID	JAR ID	DATE	TIME	LOC	DESCRIPTION
OSP-C8					
	OSP-29S	10-1-87	11:10	SOIL PILE #29,30	1.5' TO 2.0' SOIL (SAND + GRAVEL)
	OSP-31S	10-1-87	11:15	SOIL PILE #31,32	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C9					
	OSP-33S	10-1-87	1120	SOIL PILE #33,34	1.5' TO 2.0' SOIL (SAND + GRAVEL)
	OSP-35S	10-1-87	11:25	SOIL PILE #35,36	1.5' TO 2.0' SOIL (SAND + GRAVEL)

LAB ID	JAR ID	DATE	TIME	LOC	DESCRIPTION
	OSP-37S	10-1-87	11:30	SOIL PILE #37	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C10	OSP-69S	10-1-87	11:35	SOIL PILE #69, 68	1.5' TO 2.0' SOIL (SAND + GRAVEL)
	OSP-67S	10-1-87	11:40	SOIL PILE #67, 66	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C11	OSP-65S	10-1-87	11:45	SOIL PILE #65, 64	1.5' TO 2.0' SOIL (SAND + GRAVEL)


LAB ID
JAR ID
DATE
TIME
LOG
DESCRIPTION
OSP-63S
10-1-87
11:50
SOIL PILE #63,62 1.5' TO 2.0' SOIL
(SAND & GRAVEL)
OSP-C12
OSP-61S
10-1-87
11:55
SOIL PILE #61,60 1.5' TO 2.0' SOIL
(SAND & GRAVEL)
OSP-59S
10-1-87
12:00
SOIL PILE #59,58 1.5' TO 2.0' SOIL
(SAND & GRAVEL)
OSP-C13
OSP-57S
10-1-87
12:05
SOIL PILE #57,56 1.5' TO 2.0' SOIL
(SAND & GRAVEL)



LAB ID	JAR ID	DATE	TIME	LOC	DESCRIPTION
	OSP-55S	10-1-87	12:10	SOIL PILE # 55, 54	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C14					
	OSP-53S	10-1-87	12:15	SOIL PILE # 53, 52	1.5' TO 2.0' SOIL (SAND + GRAVEL)
	OSP-51S	10-1-87	12:20	SOIL PILE # 51, 50	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C15					
	OSP-49S	10-1-87	12:25	SOIL PILE # 49, 48	1.5' TO 2.0' SOIL (SAND + GRAVEL)


LAB ID
LAB ID
DATE
TIME
LOG
DESCRIPTION
OSP-395
10-1-87
12:50
SOIL PILE # 39,38 1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C18
OSP-735
10-1-87
12:55
SOIL PILE # 73,72 1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-715
10-1-87
13:00
SOIL PILE # 71,70 1.5' TO 2.0' SOIL (SAND + GRAVEL)

LAB ID	FAR ID	DATE	TIME	LOC	DESCRIPTION
	OSP-47 S	10-1-87	12:30	SOIL PILE # 47,46	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C16					
	OSP-45S	10-1-87	12:35	SOIL PILE # 45, 44	1.5' TO 2.0' SOIL (SAND + GRAVEL)
	OSP-43 S	10-1-87	12:40	SOIL PILE # 43, 42	1.5' TO 2.0' SOIL (SAND + GRAVEL)
OSP-C17					
	OSP-41S	10-1-87	12:45	SOIL PILE # 41, 40	1.5' TO 2.0' SOIL (SAND + GRAVEL)

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-2 - Well Casement Excavation

BLASLAND & BOUCK ENGINEERS, P.C.

PROJECT	PROJ NO.	BY	DATE	SHEET
Misc. Sampling Altresco	101-75-13	HE	4/24/89	

Request for Sampling

Date: 2-28-89

Initiator: Kristen Begor

BLDG Location: Hill 78 (Altresco Site)

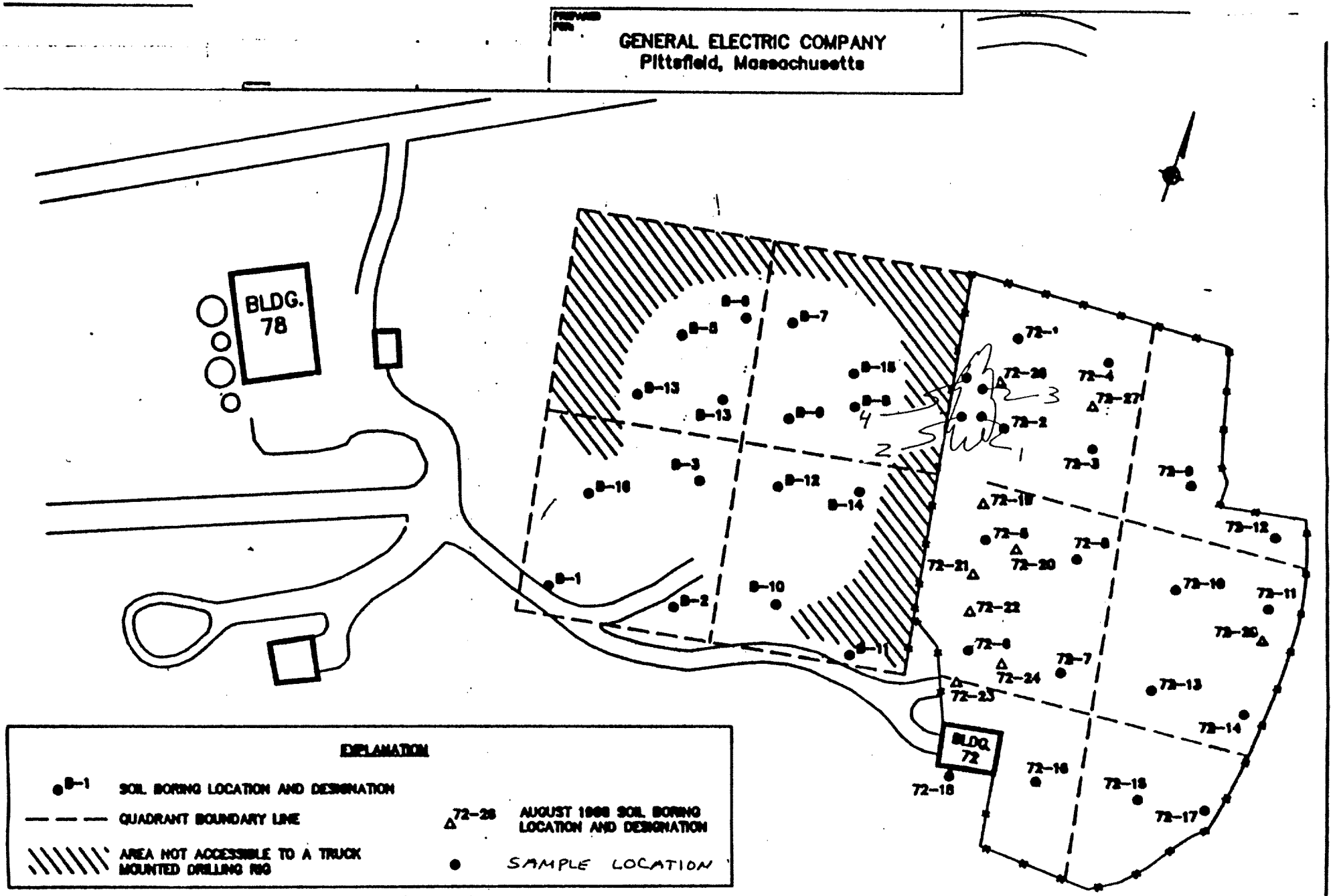
Contact Person Kristen Begor Ext 3737

Item Description	Proposed Destination
1) soil	
2)	

Notes: A soil pile of approximately 4 cubic yards that was excavated for a well casement was sampled (with a split spoon) by Geraghty & Miller Inc. B.E. requested that B&B resample soil to verify the previous results determined by Geraghty & Miller Inc. The sampling program was conducted B/B use on a discrete grab sample basis.

PREPARED FOR:

GENERAL ELECTRIC COMPANY
Pittsfield, Massachusetts



BUILDING 72 AND BUILDING 78 SITE INVESTIGATION MAP

FIGURE 2

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-3 - Concrete Footing Removal

CT		PROJ NO.	BY	DATE	SHEET
ISC. SAMPLING ALTRESCO WATER LINE (BLDG 78)		101-75-13	HE	3/29/90	

Request for Sampling

Date: 3-20-90

Initiator: Kristen Begor

BLDG. Location: Bldg 78

Contact Person Kristen Begor Ext 3737

Item Description

1) Concrete

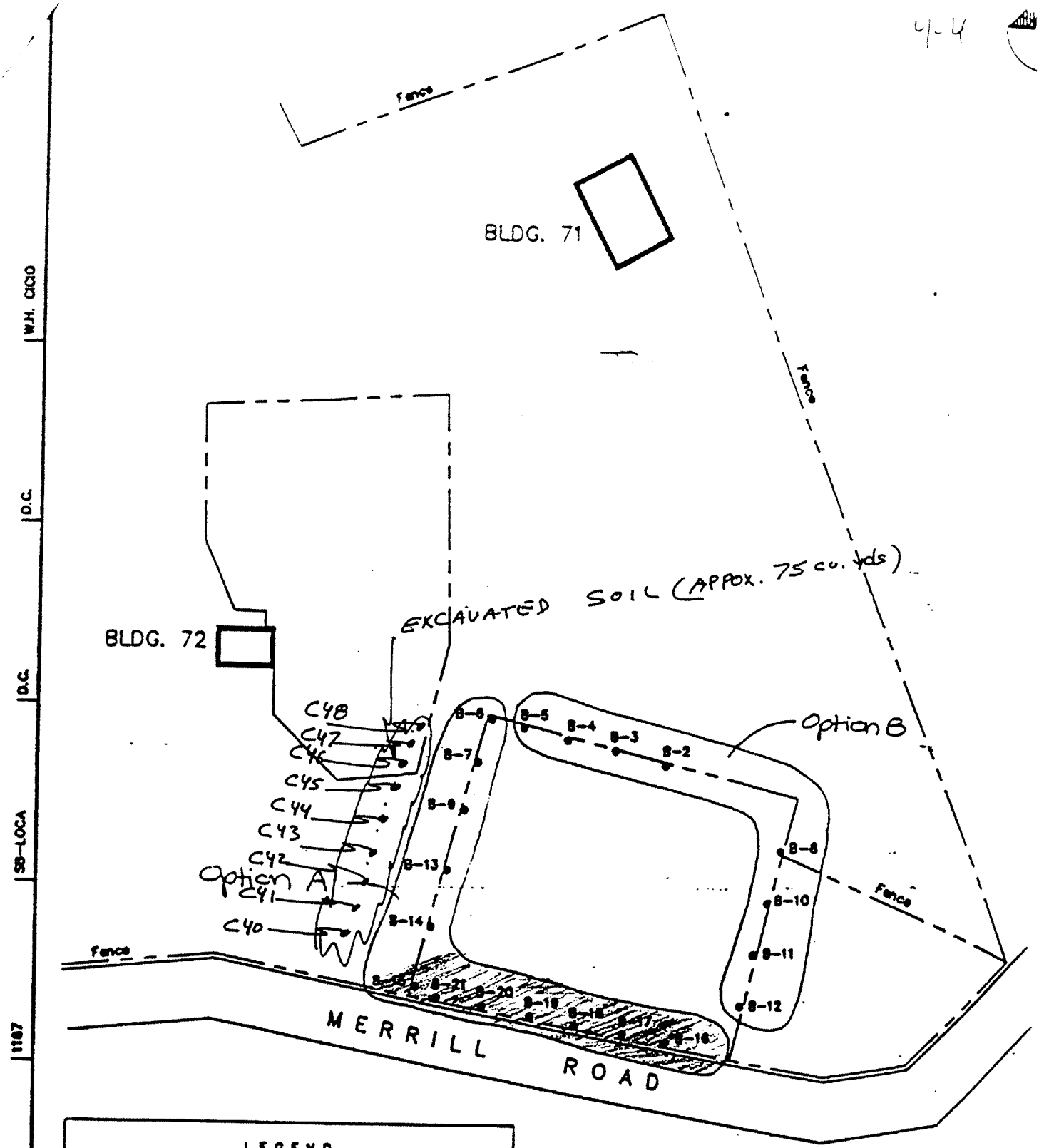
2)

Notes:

Two footings removed by the contractor (MAXI) were placed on a pallet and covered with poly. Soil was mixed with concrete on the pallet. A discrete grab sample was taken of the concrete only.

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-4 - Parking Lot Gas Line Sampling



LEGEND

- B-6 LOCATION AND DESIGNATION OF SOIL BORING
- TOP 1' AREA TO BE BACKFILLED
- SAMPLE LOCATION

MISC SAMP. ALTRESCO
ALTRESCO PARKING LOT GAS LINES SA
101-75-13

PREPARED FOR
GENERAL ELECTRIC COMPANY
Pittsfield, Massachusetts

GERAGHTY & MILLER, INC.
Environmental Services

BAR SCALE: 0 500 F

SUBJECT
SOIL BORING LOCATIONS
PARKING LOT AREA
ALTRESCO STEAMLINE PROJECT

FIG:

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING
MISC SAMP. ALTRESCO
ALTRESCO PARKING LOT GASLINE SAMP.
101-75-13

DATE: 6-5-90
OPERATOR: BRUCE EULIAN

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)
C40	0.0	0.0
C41	0.3	0.2
C42	0.0	0.0
C43	0.0	0.0
C44	0.4	0.3
C45	0.5	0.7
C46	5.0	2.0
C47	1.0	3.0
C48	1.2	1.0

4-6

MEMORANDUM

TO: John King

FROM: Kristen F. Begor KFB

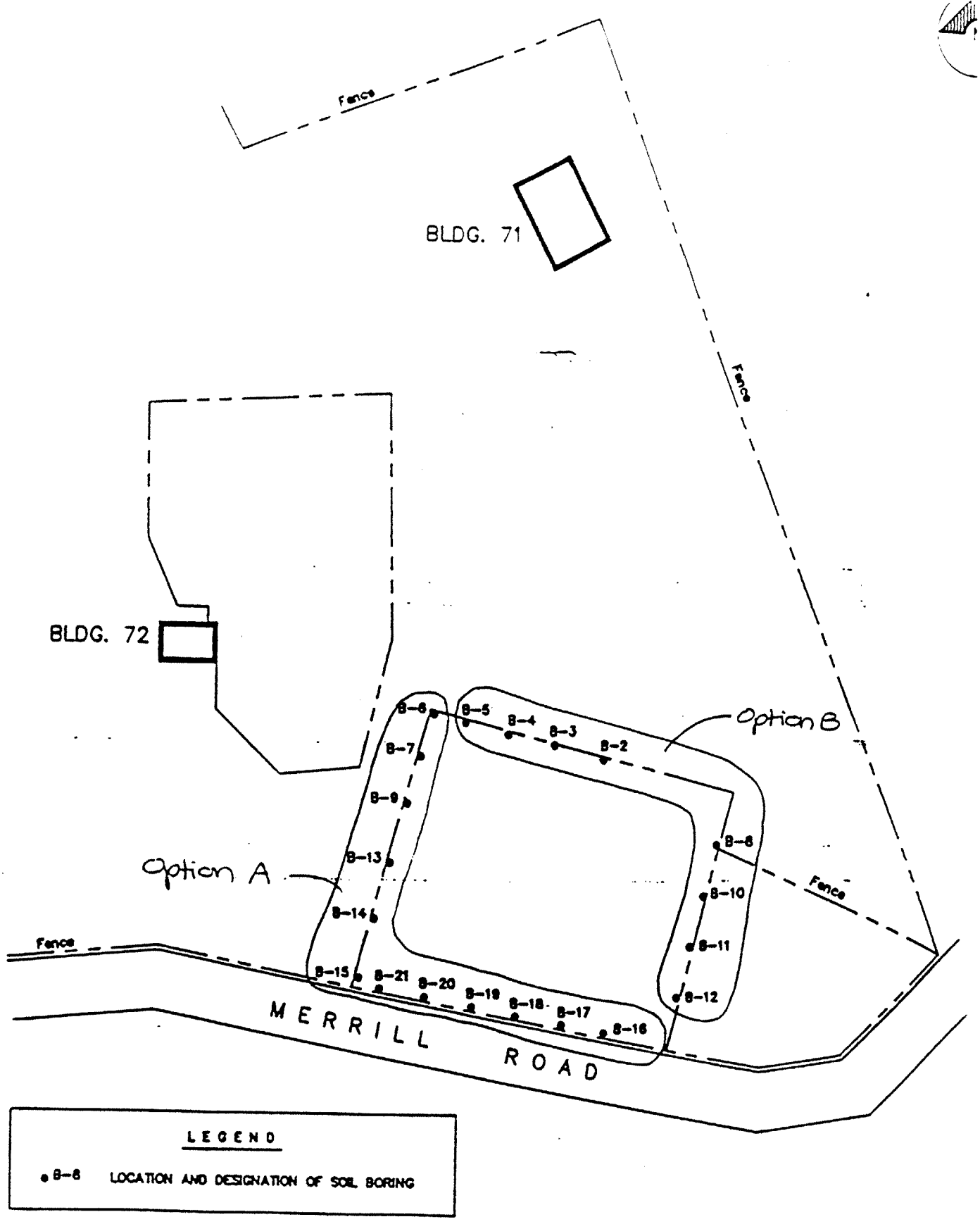
DATE: 25 May 1990

RE: Altresco Parking Lot Gasline Installation

We have received approval from the DEP to proceed with Option A for the installation of the gasline in the Altresco Parking Lot (see attached diagram for location of Option A).

Soils that are excavated along Option A can be used to backfill the trench. However, there are two special conditions that exist. First, the soils from 0 to 4 feet in the vicinity of location B-20 should be placed at the bottom of the excavation. And second, the top foot of soil that must cover the entire length of the excavation must be determined to be "clean" by resampling it. This will require that GE is notified once the soil that is to be used for this one foot layer has been set aside on plastic sheeting so that we may collect the appropriate number of samples to verify that it is less than 2 ppm PCB and does not contain significant VOCs.

The remaining soil can be used elsewhere in the facility as clean fill as long as it too has been resampled. If there is no need for additional "clean" soil on the Site, the remaining soil will have to be shipped to Partyka Landfill.



PREPARED FOR
GENERAL ELECTRIC COMPANY
Pittsfield, Massachusetts

GERAGHTY & MILLER, INC.

BAR SCALE: 0 500 FT

SUBJECT
SOIL BORING LOCATIONS
PARKING LOT AREA
ALTRESCO STEAMLINE PROJECT

FIGU

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-5 - Altresco Sign Installation

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
ALTRESCO SIGN SOIL SAMPLING	101-75-13	HE	10-29-90	

S-1

Request for Sampling

Date: 9-26-90

Initiator: Jackie Desantis

BLDG. Location: Entrance to Altresco Site

Contact Person Jackie Desantis Ext. 3306

Item Description

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis (G.E.

1.) Soil at a 0'-4' depth to be sampled for P.C.B's method 8080. TCLP not including herbicides and pesticides, and a PID reading to be taken. Sampling program was conducted on a discrete-grab sample basis.

DELIVERED TO
GRANT BOWMAN (GE)
11-6-90

5-2

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Altresco Sign Soil Sampling

Date: 10/09/90
File No: 101-75-13
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted at the entrance to the Altresco site on 09/26/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

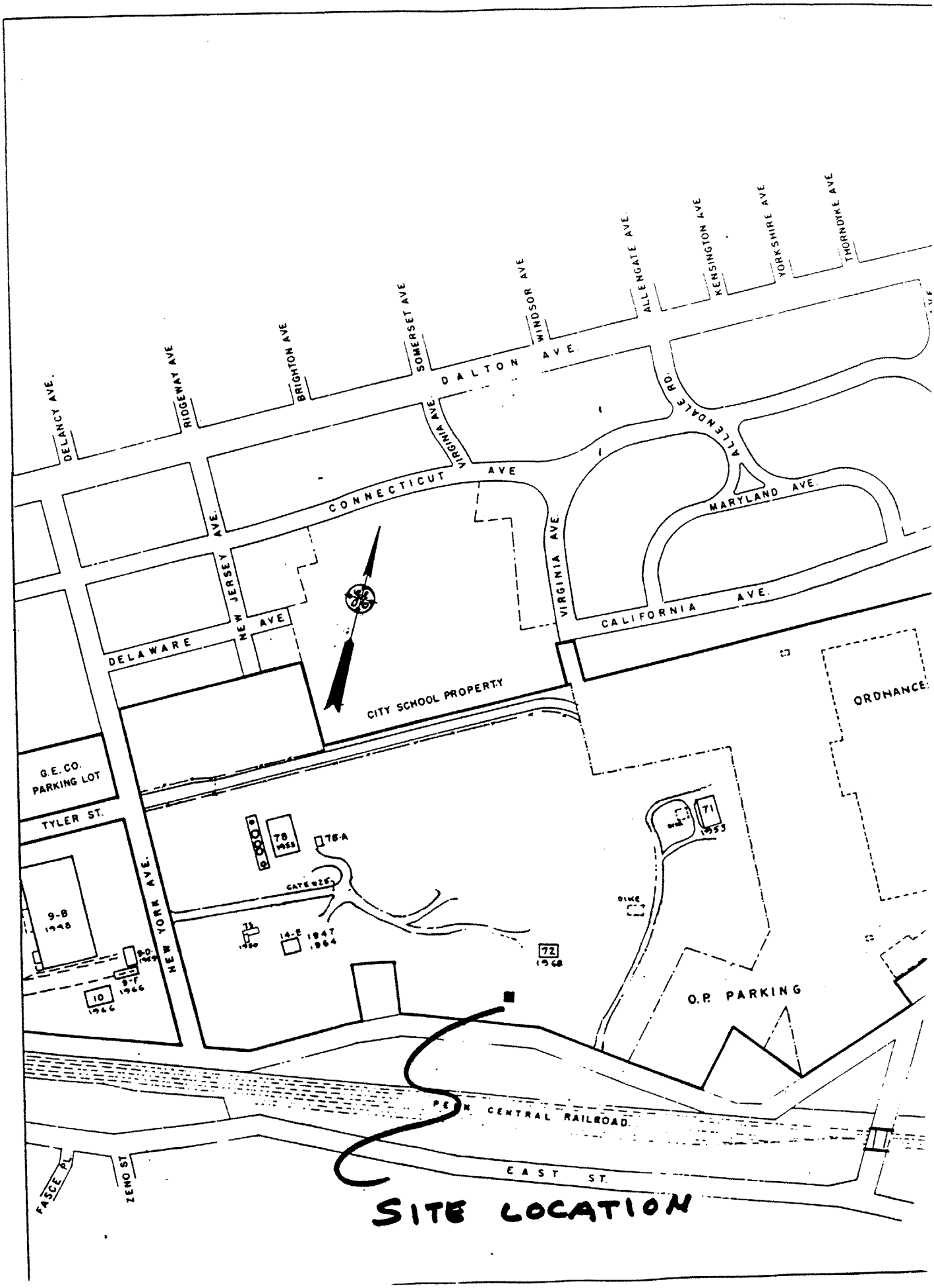
PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB ug/100cm2	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ALTR-SS-C49	<0.6	1	SOIL	DISCRETE-GRAB	0'-4'
ALTR-SS-C50	<0.6	2	SOIL	DISCRETE-GRAB	0'-4'

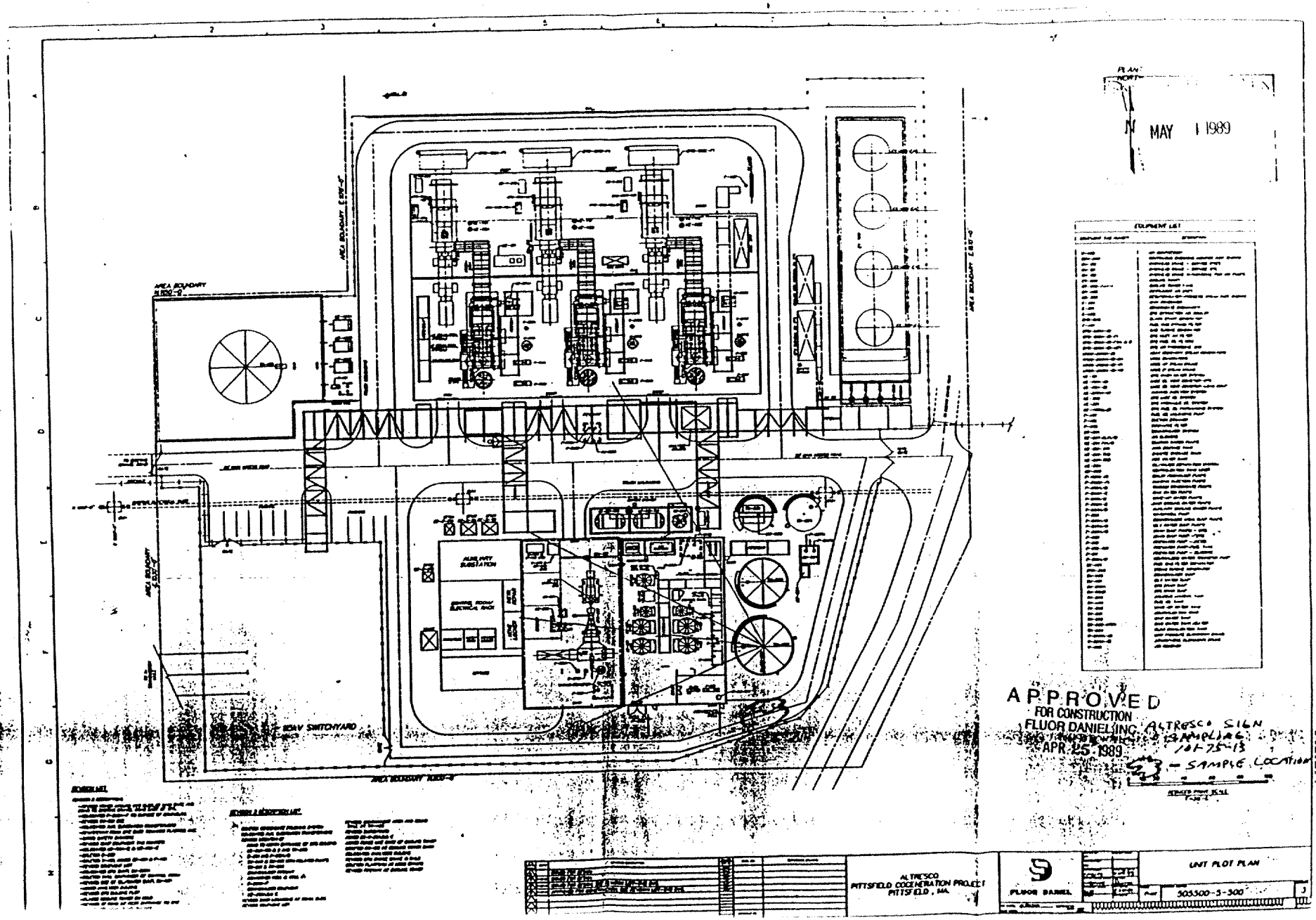
TCLP SAMPLING RESULTS

ALTR-SS-C49	see OBG Lab Results	1	SOIL	DISCRETE-GRAB	0'-4'
ALTR-SS-C50	see OBG Lab Results	2	SOIL	DISCRETE-GRAB	0'-4'

bee


DELANCY AVE.
RIDGEWAY AVE
BRIGHTON AVE
SOMERSET AVE
DALTON AVE
WINDSOR AVE
ALLENGATE AVE
KENSINGTON AVE
YORKSHIRE AVE
THORNDYKE AVE
CONNECTICUT AVE
VIRGINIA AVE.
ALLENDALE RD.
MARYLAND AVE.
CALIFORNIA AVE.
NEW JERSEY AVE.
DELAWARE
CITY SCHOOL PROPERTY
ORDNANCE
G.E. CO. PARKING LOT
TYLER ST.
78 1955
78-A
GATE #25
71 1953
DIKE
9-B 1948
14-E 1947 1964
72 1968
O.P. PARKING
NEW YORK AVE.
10 1966
PENN CENTRAL RAILROAD
EAST ST.
FASCE PL.
ZENO ST.
SITE LOCATION

5-4


MAY 1 1989
APPROVED
FOR CONSTRUCTION
FLUOR DANIEL INC.
APR 25 1989
ALTRESCO
PITTSFIELD COGENERATION PROJECT
PITTSFIELD, MA.
FLUOR DANIEL
UNIT PLOT PLAN
505500-5-300

S-5

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING
ALTRESCO SIGN SOIL SAMPLING
101-75-13

DATE: 9-26-90
OPERATOR: BRUCE EVLIAN

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)
ALTR-SS-C49 Loc#1	7.8	6.8
ALTR-SS-C50 Loc#2	7.2	6.1

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Altresco Sign Soil Sampling, Pittsfield, Mass. B & B # 101.75.13

Toxicity Characteristic Leaching Procedure

DATE COLLECTED 9-26-90 DATE RECEIVED 9-27-90

Description:	ALTR-SS-C49	ALTR-SS-C50
Sample #	L0577	L0578
TCLP Semivolatile Organics:		
o-CRESOL	<0.012	<0.011
m-CRESOL		
p-CRESOL		
CRESOL, TOTAL		
1,4-DICHLOROBENZENE		
2,4-DINITROTOLUENE		
HEXACHLOROBENZENE		
HEXACHLOROBUTADIENE		
HEXACHLOROETHANE		
NITROBENZENE		
PENTACHLOROPHENOL	<0.060	<0.056
PYRIDINE	<0.12	<0.11
2',4,5-TRICHLOROPHENOL	<0.060	<0.056
2,4,6-TRICHLOROPHENOL	<0.012	<0.011
Analytical Record:		
Date Leachate Created:	10-5-90	
Date Extracted:	10-9-90	10-8-90
Date Analyzed::	10-11-90	10-9-90

Comments:

Certification No.: NY034

Units: mg/l

Authorized: Anthony Cusanza

Date: October 23, 1990

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Altresco Sign Soil Sampling, Pittsfield, Mass. B & B # 101.75.13

Toxicity Characteristic Leaching Procedure

DATE COLLECTED 9-26-90 DATE RECEIVED 9-27-90

Description:	ALTR-SS-C49	ALTR-SS-C50
Sample #	L0577	L0578
TCLP Metals:		
ARSENIC	<0.5	<0.5
BARIUM	<10.	<10.
CADMIUM	<0.1	<0.1
CHROMIUM	<0.5	<0.5
LEAD	<0.5	<0.5
MERCURY	<0.0005	<0.0005
SELENIUM	<0.1	<0.1
SILVER	<0.5	<0.5
Other Analysis:		
PERCENT TOTAL SOLIDS	88.	87.

Comments:

Certification No.: NY034

Units: mg/l

Authorized: Arthur Cumming

Date: October 23, 1990

OBG Laboratories, Inc., *an O'Brien & Gere Limited Company*
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-6 - Altresco Stairway Installation

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
ALTRESCO STAIRWAY SOIL SAMPLING	101-75-13	HE	10-24-90	

Request for Sampling

Date: 10-22-90

Initiator: Jackie Desantis

BLDG. Location: Altresco Site

Contact Person Jackie Desantis Ext. 3306

Item Descciption

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis
1.) Soil to be sampled for P.C.B's Method 8080 and a P.I.D. reading to be taken. Soil pile was approximately 7 cubic yds. and the sampling program was conducted on a discrete grab sample basis.

DELIVERED
GRANT BOWMAN (GE
11-6-90

1-2

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Altresco Stairway Soil Sampling

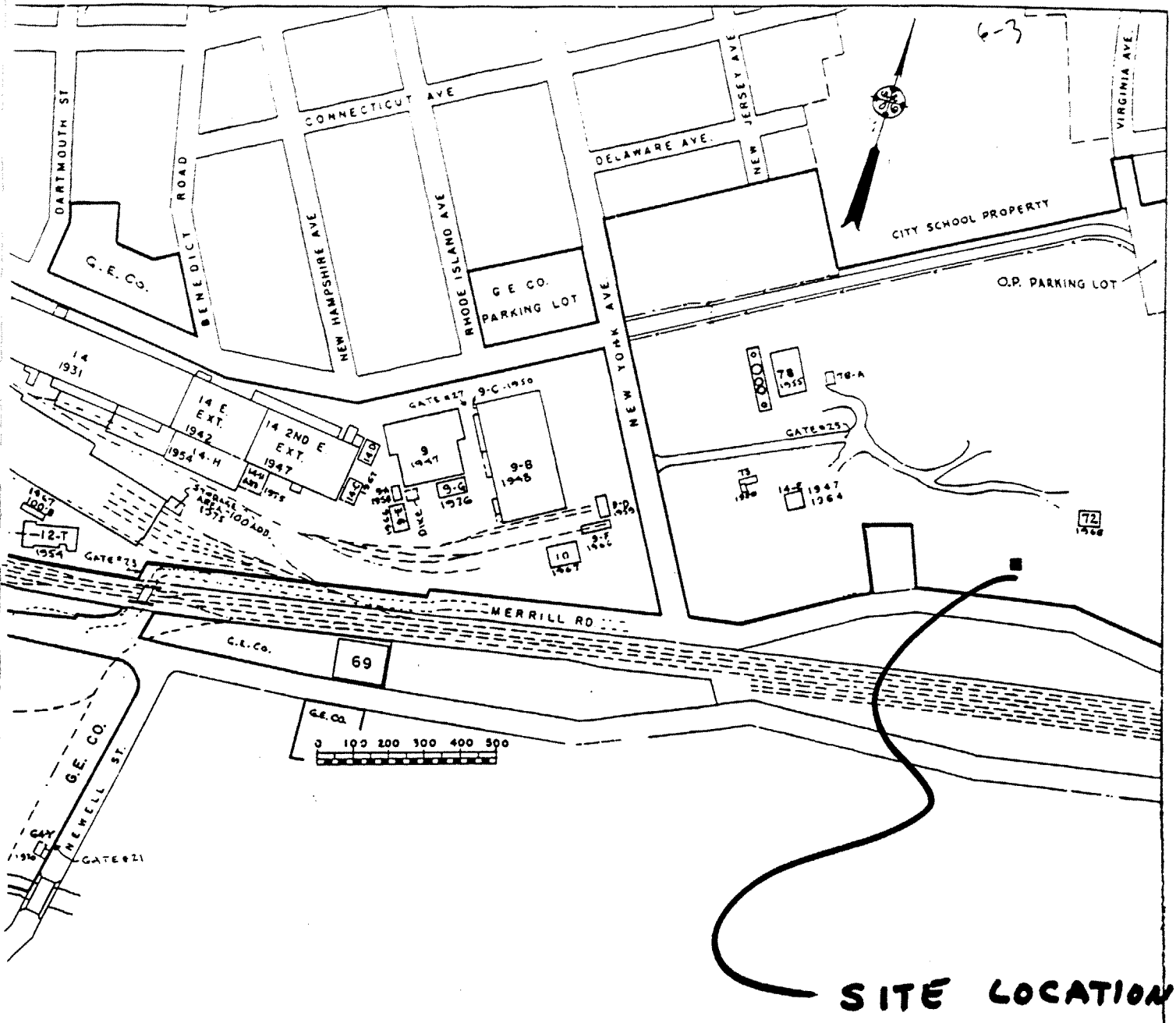
Date: 10/24/90
File No: 101-75-13
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted at the Altresco Site on 10/22/90. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ALTR-SW-CW1	2.7	1	SOIL	DISCRETE-GRAB	0'-2'
ALTR-SW-CW2	1.9	2	SOIL	DISCRETE-GRAB	0'-2'
ALTR-SW-CW3	1.8	3	SOIL	DISCRETE-GRAB	0'-2'

bee



PITTSFIELD WORKS

GROUND PLAN

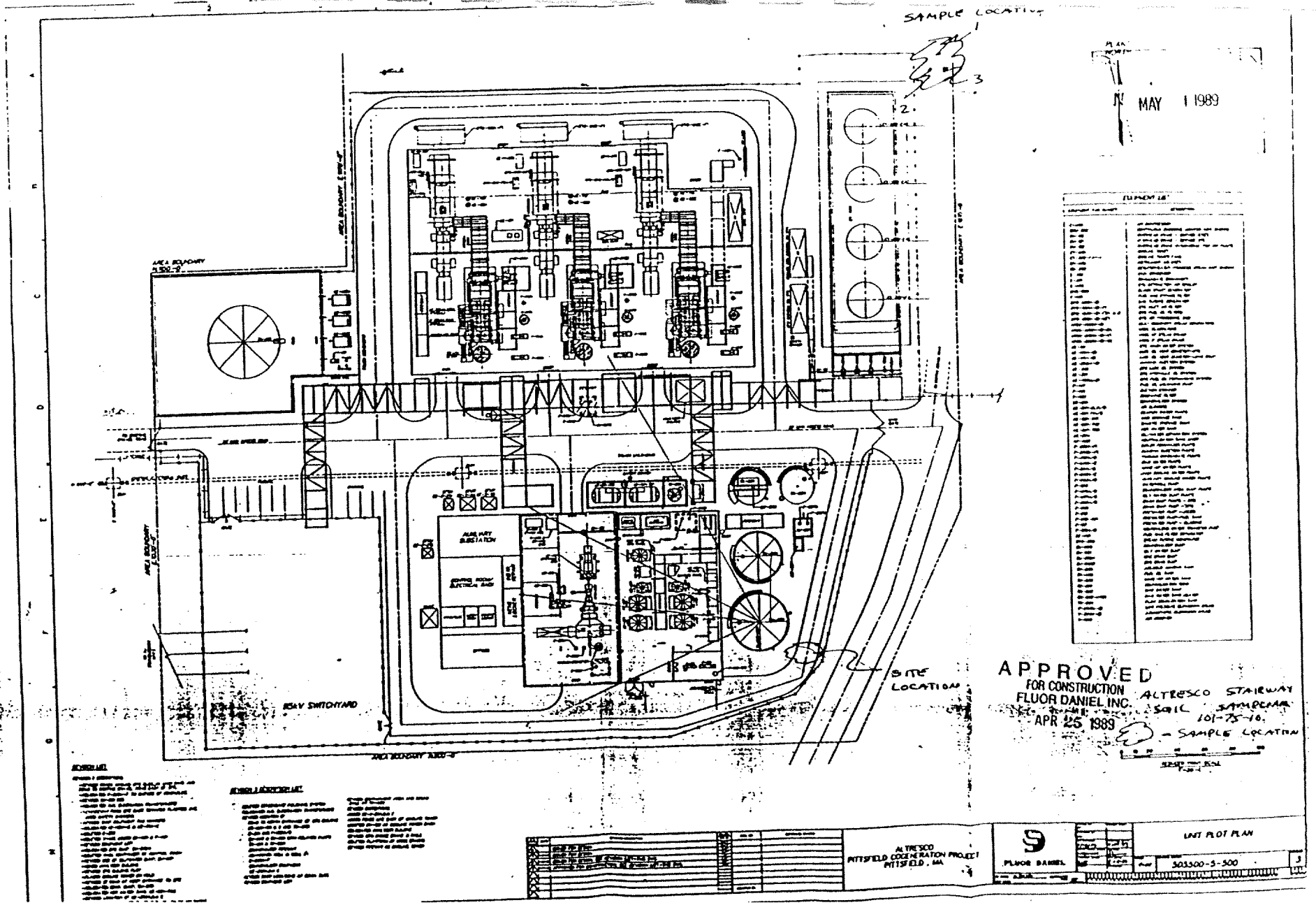
SHEET-1

CORRECTED TO JAN. 1, 1985

SCALE 1"=200' DWG NO. 6600

APPROVED G. Bowen 1/15/85

F5 P15


SAMPLE LOCATION
1
2
3
MAY 1 1989
APPROVED
FOR CONSTRUCTION
FLUOR DANIEL INC.
APR 25 1989
ALTRESCO STAIRWAY
SOIL SAMPLING
101-75-10
= SAMPLE LOCATION
SITE LOCATION
345kV SWITCHYARD
ALTRESCO
PITTSFIELD COGENERATION PROJECT
PITTSFIELD, MA
FLUOR DANIEL
UNIT PLOT PLAN
303500-5-500

6.5

BLASLAND & BOUCK ENGINEERS,P.C.

HEAD SPACE SCREENING
ALTRESCO STAIRWAY
SOIL SAMPLING
101-75-13

DATE: 10-22-90
OPERATOR: BRUCE EULIAN

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)
LOC #1	4.8	2.3
LOC #2	1.0	4.6
LOC #3	3.0	2.6

OBG LABORATORIES, INC

PRELIMINARY 6-6

Laboratory Report

SECTION LEADER

SDG #

JOB NO.

DESCRIPTION

PRIORITY

DATE COLLECTED 12-10 DATE RECEIVED

		Aroclor	PCB	
		1254/1260	2.7	
		1260	1.9	
		1260	1.8	

Comments:

Certification No.: NY 034

Units: mg/kg dry wt.

Authorized:

Date:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-7 - Well ASW-6/W-6 Installation Drilling Cuttings

BLASLAND & BOUCK ENGINEERS, P.C.

JECT	PROJ NO.	BY	DATE	SHEET
'ISC. SAMPLING ALTRESCO (WELL # 6 DRUM SAMPLING)	101-75-13	HE	2/19/91	

7-1

Request for Sampling

Date: 2-12-91

Initiator: Jackie Desantis (G.E.)

BLDG. Location: Altresco Site

Contact Person Jackie Desantis Ext. 3306

Item Description

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis (G.
1) Soil placed in two 55 gal. drums from well #6 to be sampled for P.C.B's method 8080. Sampling program was conducted on a discrete grab sample basis. A split spoon was used to collect the sample.

DELIVERED TO GRANT BOWMAN (GE) 2-21-91

7.2

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Miscellaneous Sampling Altresco
Well #6 Drum Sampling

Date: 2-15-91
File No: 101-75-13
cc: Jackie DeSantis (GE)
Grant Bowman (GE)

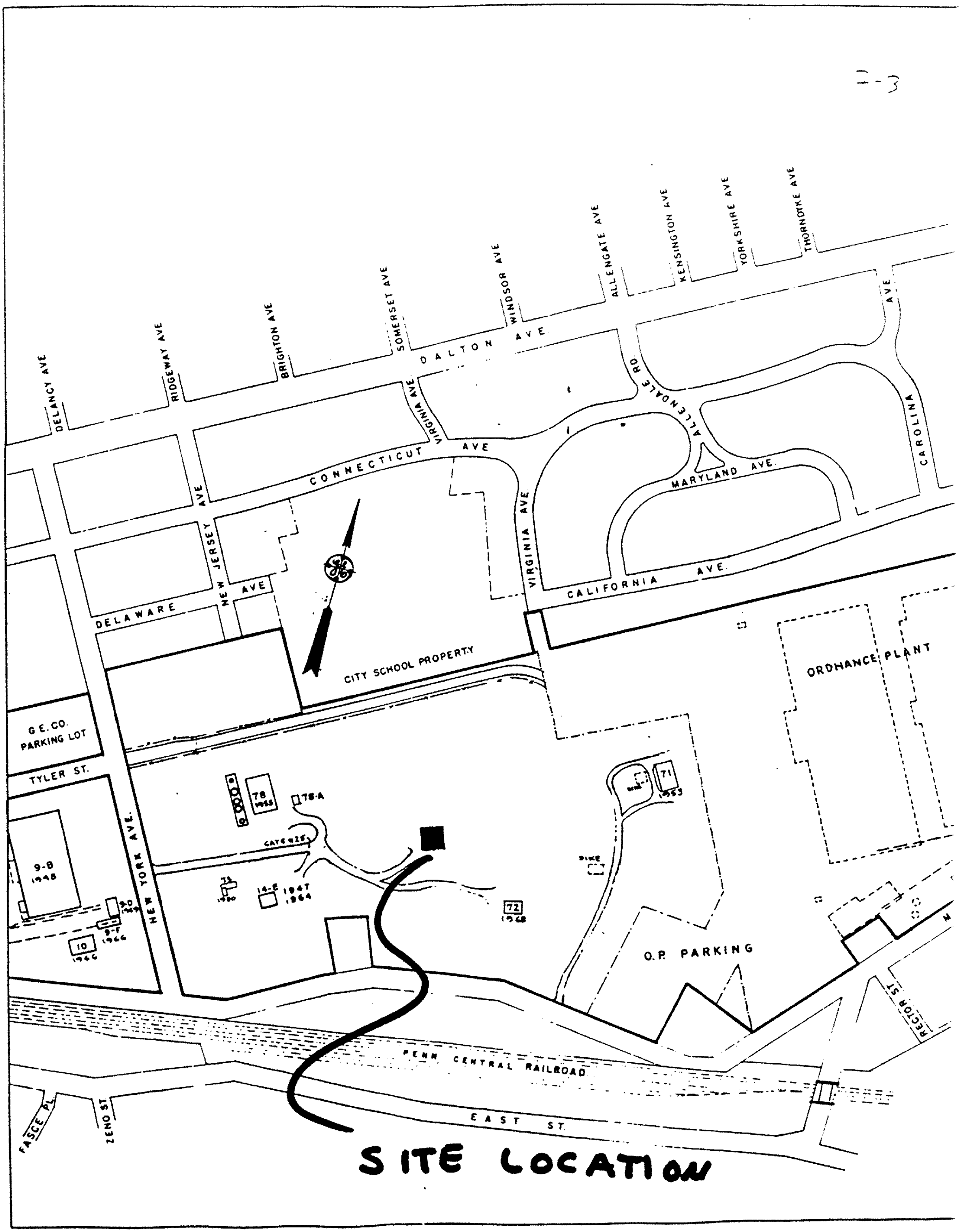
The following is a summary of the sample results for the PCB sampling program conducted at the Altresco site on 2-12-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by O86 Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ALTR-WELL6-C1	2.5	1	SOIL	DISCRETE-GRAB	0'-2'

jjh

I-3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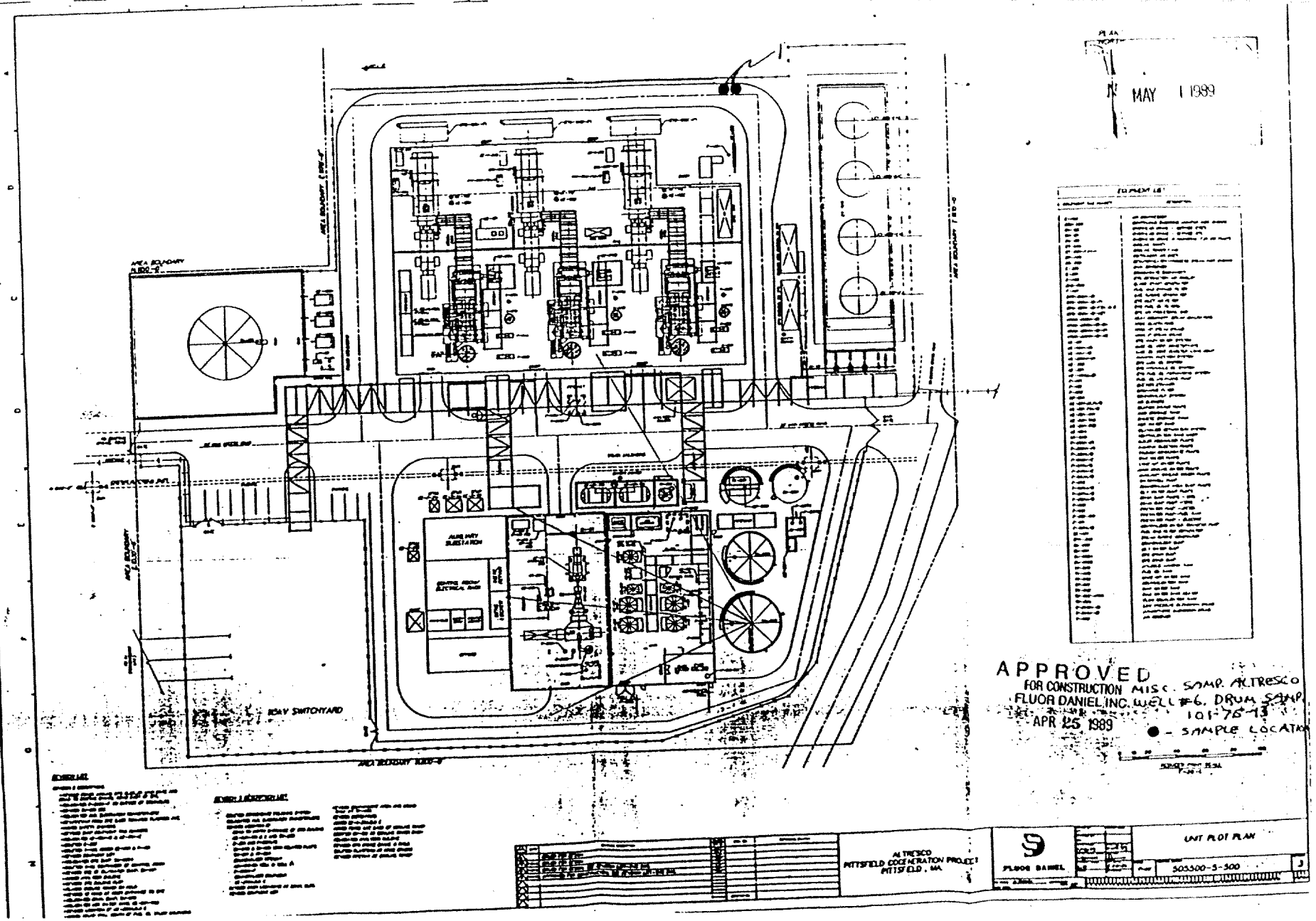
RIDGEWAY AVE
BRIGHTON AVE
SOMERSET AVE
WINDSOR AVE
ALLENGATE AVE
KENSINGTON AVE
YORKSHIRE AVE
THORNDYKE AVE
DALTON AVE
VIRGINIA AVE
ALLENDALE RD.
CONNECTICUT AVE
MARYLAND AVE.
CAROLINA AVE
NEW JERSEY AVE
DELAWARE AVE
VIRGINIA AVE
CALIFORNIA AVE.
CITY SCHOOL PROPERTY
ORDNANCE PLANT
G.E. CO. PARKING LOT
TYLER ST.
NEW YORK AVE.
78 1955
78-A
GATE #25
71 1953
9-B 1948
9-D
9-F 1966
10 1966
14-E 1947 1964
72 1968
O.P. PARKING
PENN CENTRAL RAILROAD
EAST ST.
FASCE PL.
ZENO ST
RECTOR ST
SITE LOCATION


MAY 1 1989
APPROVED
FOR CONSTRUCTION MISC. SAMP. ALTRESCO
FLUOR DANIEL INC. WELL #6, DRUM SAMP
101-76-13
APR 25 1989
● - SAMPLE LOCATION
ALTRESCO
PITTSFIELD COGENERATION PROJECT
PITTSFIELD, MA
FLUOR DANIEL
UNIT PLOT PLAN
505300-S-500

2127

PRELIMINARY

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-13

Date Analyzed 2/14/91 DATE COLLECTED See Below DATE RECEIVED 2/13/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
✓ALTR-Well6-C1	2/13/91	2/12/91	2.26	90	2.5	soil	A
A) Reagent Blank 2:					2.1 ug/g		

Comments:

Certification No.:

Units: ug/g = ppm

Authorized:

SUBJECT	PROJ NO.	BY	DATE	SHEET
WELL #6 DRUM SAMPLING MISC. SAMPLING ALTRESCO (BLDG. 12-1)	101. 75.13	HE	4 11 91	

F.C

Request for Sampling

Date: 4-9-91

Initiator: Jackie Desantis

BLDG. Location: Bldg 12-1

Contact Person Jackie Desantis Ext. 3306

Item Descriptions

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis (G.E.)

1.) Two 55 gal. drums from well #6 at the Altresco site taken to Bldg. 12-1 to be sampled for TCLP no herbicides or pesticides.

2) To be sent to Alpha Analytical through Pittsfield G.E. (courrier) Lab. Sampling program was conducted on a discrete grab sample basis.

DELIVERED TO GRANT BOWMAN(GE) 5-20-91

J-7

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Miscellaneous Sampling Altresco
Well #6 Drum Sampling (Bldg 12-1)

Date: 4-9-91
File No: 101-75-13
cc: Jackie DeSantis (GE)
Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted in Bldg 12-1 on 4-9-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by Alpha Analytical Laboratories has also been included.

TCLP SAMPLING RESULTS

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ALTR-WELL6-C2	SEE ALPHA LAB REPORT	2	SOIL	DISCRETE-GRAB	0'-2'

jjh

2.7

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Chain of Custody

Project Ident. WASTE Characterization Laboratory File Number _____

Project Mgr. W A Fessler

Location 11-337

Sampler(s) _____

SAMPLE IDENTIFICATION	DATE SAMPLED	SAMPLE TYPE	ANALYSIS REQUESTED
ALTR-WELL6-C2	4/9/91	(Soil Grab 1 GAL + 4 VOA)	TCLP (NO Herbicide or Pesticides)

INSTRUCTIONS/COMMENTS:

Send Report & INVOICE to: W A Fessler, MAIL Code C23
100 Woodlawn Ave. Pittsfield, MA 01201

PO # A34 PX 30.21700

	Signature	Organization	Location	Date/Time
1. Sampled by:				
2. Relinquished by:	[signature]	GE ENVLAB	11-337	4/12/91 11:07
Received by:	K. Mc[illegible]	ALPHA LABS	WESTBORO, MA	4/12/91 1407
3. Relinquished by:				
Received by:	B Marcotte	Alpha	Westboro	4/12/91 4:40 p
4. Relinquished by:				
Received by:				

Federal Express Air Bill Number: _____

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

Title: TCLP Analyses of Altresco Well #6 Drum Sample.
Test by: Alpha Analytical
Report by: WA Fessler

Number: EL-91-018
Date: April 30, 1991
Requested by: J DeSantis
Approved: [signature] 4/30/91

One sample of soil 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'. Due to matrix interference, the detection limits (MDL) for some organic compounds are at or above the regulatory limits. These parameters are identified by the comment 'LIMIT'. In the case of pyridine, if the MDL is above the regulatory limit, the MDL becomes the regulatory limit.

Sample ALTR-WELL 6-C2 did not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
J DeSantis 11-250

Sample ID ALTR-Well 5-02		Result mg/L	Regulatory Lim mg/L	
Arsenic		2.5	5.000	OK
Barium		50	100.000	OK
Cadmium	<	.5	1.000	OK
Chromium	<	2.5	5.000	OK
Lead	<	2.5	5.000	OK
Mercury	<	.1	.200	OK
Selenium	<	.5	1.000	OK
Silver	<	2.5	5.000	OK
o-Cresol	<		200.000	OK
m-Cresol	<		200.000	OK
p-Cresol	<		200.000	OK
Cresols	<	100	200.000	OK
2,4-Dinitrotoluene	<	.07	.130	OK
Hexachlorobenzene	<	.07	.130	OK
Hexachlorobutadiene	<	.25	.500	OK
Hexachloroethane	<	1.5	3.000	OK
Nitrobenzene	<	1	2.000	OK
Pentachlorophenol	<	50	100.000	OK
2,4,5-Trichlorophenol	<	200	400.000	OK
2,4,6-Trichlorophenol	<	1	2.000	OK
Pyridine	<	2.5	5.000	OK
Benzene	<	.25	.500	OK
Carbon Tetrachloride	<	.25	.500	OK
Chlorobenzene	<	50	100.000	OK
Chloroform	<	3	6.000	OK
1,4-Dichlorobenzene	<	3.8	7.500	OK
1,2-Dichloroethane	<	.25	.500	OK
1,1-Dichloroethylene	<	.35	.700	OK
Tetrachloroethylene	<	.35	.700	OK
Trichloroethylene	<	.25	.500	OK
Vinyl Chloride	<	.1	.200	OK
Methyl Ethyl Ketone	<	100	200.000	OK

7-11

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

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

CERTIFICATE OF ANALYSIS

Client:	General Electric Company	**Laboratory Job Number:**	912224
Address:	Mail Code C23; 100 Woodlawn Ave	**Invoice Number:**	20487
	Pittsfield, MA 01201	**Date Received:**	04/12/91
Attn:	William Fessler	**Date Reported:**	04/26/91
Client Designation:	PO# A34PX3021700	**Delivery Method:**	Alpha Courier

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
912224.1	ALTR-WELL6-C2	11-337
912224.1S	ALTR-WELL6-C2 (spike recovery)	11-337

Authorized by: Scott McLean

Scott McLean - Laboratory Director

seh

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: 912224.1 Date Received: 04/12/91

Sample Matrix: Soil Date Reported: 04/26/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar and four VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES EXT/PREP	DATES ANALYSIS
TCLP Extraction	----	-----	---	13	1311	04/16/91	------
RCRA 8 Metals							
Arsenic	ND	mg/L	2.5	1	7060	----	04/18/91
Barium	ND	mg/L	50	1	6010	----	04/18/91
Cadmium	ND	mg/L	0.5	1	6010	----	04/18/91
Chromium	ND	mg/L	2.5	1	6010	----	04/18/91
Lead	ND	mg/L	2.5	1	6010	----	04/18/91
Mercury	ND	mg/L	0.1	1	7470	----	04/18/91
Selenium	ND	mg/L	0.5	1	7740	----	04/18/91
Silver	ND	mg/L	2.5	1	6010	----	04/18/91
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	100	1	8270	04/24/91	04/26/91
2,4-Dinitrotoluene	ND	mg/L	0.07	1	8270	04/24/91	04/26/91
Hexachlorobenzene	ND	mg/L	0.07	1	8270	04/24/91	04/26/91
Hexachloro-1,3-butadiene	ND	mg/L	0.25	1	8270	04/24/91	04/26/91
Hexachloroethane	ND	mg/L	1.5	1	8270	04/24/91	04/26/91
Nitrobenzene	ND	mg/L	1.0	1	8270	04/24/91	04/26/91
Pentachlorophenol	ND	mg/L	50	1	8270	04/24/91	04/26/91
2,4,5-Trichlorophenol	ND	mg/L	200	1	8270	04/24/91	04/26/91
2,4,6-Trichlorophenol	ND	mg/L	1.0	1	8270	04/24/91	04/26/91
Pyridine	ND	mg/L	2.5	1	8270	04/24/91	04/26/91

Acid/Base/Neutral Extractables	% Surrogate Recovery
2-Fluorophenol	29%
Phenol-d6	22%
Nitrobenzene-d5	80%
2-Fluorobiphenyl	56%
2,4,6-Tribromophenol	96%
4-Terphenyl-d14	92%

Note: For TCLP Metals all results are spike recovery corrected.
For 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

Laboratory Sample Number: 912224.1S Date Received: 04/12/91

Sample Matrix: Soil Date Reported: 04/26/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar and four VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	%SPIKE RECOVERY
RCRA 8 Metals	
Arsenic	95%
Barium	80%
Cadmium	98%
Chromium	98%
Lead	67%
Mercury	90%
Selenium	81%
Silver	98%
Acid/Base Neutral Extractables	
Total cresol	79%
2,4-Dinitrotoluene	84%
Hexachlorobenzene	85%
Hexachloro-1,3-butadiene	31%
Hexachloroethane	36%
Nitrobenzene	66%
Pentachlorophenol	113%
2,4,5-Trichlorophenol	93%
2,4,6-Trichlorophenol	99%
Pyridine	39%

Acid/Base/Neutral Extractables	% Surrogate Recovery
2-Fluorophenol	67%
Phenol-d6	63%
Nitrobenzene-d5	72%
2-Fluorobiphenyl	53%
2,4,6-Tribromophenol	97%
4-Terphenyl-d14	97%

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

Laboratory Sample Number: 912224.1 **Date Received:** 04/12/91

Sample Matrix: Soil **Date Reported:** 04/26/91

Condition of Samples: Satisfactory **Field Prep:** None

Number & Type of Containers: One glass jar and four VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	%SPIKE RECOVERY
Volatile Organics	
Benzene	102%
Carbon tetrachloride	109%
Chlorobenzene	104%
Chloroform	103%
1,4-Dichlorobenzene	106%
1,2-Dichloroethane	103%
1,1-Dichloroethene	74%
Tetrachloroethene	104%
Trichloroethene	105%
Vinyl chloride	76%
Methyl ethyl ketone	91%

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	102%
Toluene-d8	100%
4-Bromofluorobenzene	105%

COMMENTS: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES

ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS

FOR INORGANICS

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

ALPHA ANALYTICAL LABORATORIES

ACCEPTABLE SURROGATE SPIKE RECOVERY LIMITS

FRACTION	SURROGATE COMPOUND	LOW/MEDIUM WATER	LOW/MEDIUM SOIL/SEDIMENT
VOA	Toluene-d_8	88-110 %	81-117 %
VOA	4-Bromofluorobenzene	86-115 %	74-121 %
VOA	1,2-Dichloroethane-d_4	76-114 %	70-121 %
BNA	Nitrobenzene-d_5	35-114 %	23-120 %
BNA	2-Fluorobiphenyl	43-116 %	30-115 %
BNA	p-Terphenyl-d_{14}	33-141 %	18-137 %
BNA	Phenol-d_5	10-94 %	24-113 %
BNA	2-Fluorophenol	21-100 %	25-121 %
BNA	2,4,6-Tribromophenol	10-123 %	19-122 %
Pest.	Dibutylchlorendate	24-154 %	20-150 %

ALPHA ANALYTICAL LABORATORIES

ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS

FOR ORGANICS

FRACTION	MATRIX SPIKE COMPOUND	WATER	SOIL/SEDIMENT
VOA	1,1-Dichloroethene	61-145 %	59-172 %
VOA	Trichloroethene	71-120 %	62-137 %
VOA	Chlorobenzene	75-130 %	60-133 %
VOA	Toluene	76-125 %	59-139 %
VOA	Benzene	76-127 %	66-142 %
BN	1,2,4-Trichlorobenzene	39-98 %	38-107 %
BN	Acenaphthene	46-118 %	31-137 %
BN	2,4-Dinitrotoluene	24-96 %	28-89 %
BN	Di-n-butyl phthalate	11-117 %	29-135 %
BN	Pyrene	26-127 %	35-142 %
BN	N-nitros-di-n-propylamine	41-116 %	41-126 %
BN	1,4-Dichlorobenzene	36-97 %	28-104 %
Acid	Pentachlorophenol	9-103 %	17-109 %
Acid	Phenol	12-89 %	26-90 %
Acid	2-Chlorophenol	27-123 %	25-102 %
Acid	4-Chloro-3-methylphenol	23-97 %	26-103 %
Acid	4-Nitrophenol	10-80 %	11-114 %
Pest.	Lindane	56-123 %	46-127 %
Pest.	Heptachlor	40-131 %	35-130 %
Pest.	Aldrin	40-120 %	34-132 %
Pest.	Dieldrin	52-126 %	31-134 %
Pest.	Endrin	56-121 %	42-139 %
Pest.	4,4'-DDT	38-127 %	23-134 %

ALPHA ANALYTICAL LABS
ADDENDUM I
REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

2. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 16th Edition. 1985.

3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-82-055. 1983.

5. Oil Spill Identification System. CG-D-52-77 U. S. Coast Guard. 1977.

6. Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water. EPA 600/4-82-057. 1982.

7. U. S. Department of Health & Human Services, National Institute of Occupational Safety and Health. Peter M. Eller, NIOSH Manual of Analytical Methods, Third Edition, 1984.

8. Handbook of Analytical Quality Control in Water and Wastewater Laboratories. EPA 600/4-79-019. March 1979.

9. The United States Pharmacopeia. The National Formulary. USP 20th Edition. Formulary 15th Edition. 1980.

10. Choosing Cost-Effective QA/QC (Quality Assurance/Quality Control) Programs for Chemical Analysis. PB85-241461. U. S. Department of Commerce, National Technical Information Service. August 1985.

11. Manual of Analytical Quality Control for Pesticides in Human and Environmental Media. PB 261 019. EPA 600/1-76-017. February 1975.

12. Annual Book of ASTM Standards. Sections 0, 3, 4, 5, 6, 8, 9, 11, and 14. American Society for Testing and Materials 1986.

13. 40 CFR Part 261, App. II. Method 1311 Toxicity Characteristic Leaching Procedure (TCLP). July 1, 1990 Edition.

14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. Available from USEPA, Cincinnati, 26 West Martin Luther King Drive, Cincinnati, Ohio, 45268.

ALPHA ANALYTICAL LABS
ADDENDUM I
REFERENCES

15. Interim Methods for the Determination of Asbestiform Minerals in Bulk Insulation Samples, Research Triangle Institute, June 1980. Asbestos Containing Materials in School Buildings: A Guidance Document, March 1979, USEPA Document C00090, parts 1 & 2.

16. Interim Methods for the Determination of Asbestos in Bulk Insulation Samples (EPA-600/M4-82-020).

17. "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," Publication EPA-600/4-80-032, U. S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, August 1980.

18. "Clean Harbors Radiological Environmental Analytical Procedures," Clean Harbors Analytical Services, Braintree, MA, October 1985.

19. H. M. Prichard and T. F. Gesell, "Rapid Measurement of RN-222 Concentrations in Water with a Commercial Liquid Scintillation Counter", Health Physics, Volume 33, 1977, pp. 577-581.

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21. Analysis of PCB's in Transformer Fluid and Waste Oil. EPA 600/4-81-045. 1981.

22. Klute, A. 1986, "Methods of Soil Analysis, Part 1", Methods 15-2.2 and 15-5.1. American Society of Agronomy, Madison, WI.

23. Exhibit No. 1. Petroleum Oils by Gas Chromatography. Alley, Young & Baumartner, Inc., Consulting Engineers, P.O. Box 2036, Brentwood, TN 37024.

24. Principal Organic Hazardous Constituents and Products of Incomplete Combustion Screening Protocol. Southern Research Institute, October 1989.

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Towpath Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101-75-13

PROJECT NAME: ALTRESCO MISC SAMPLING - WELL #6 DRUM SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: ~~SOIL~~ SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TCLP-(NO HERBICIDES OR PESTICIDES)					REMARKS
WLTR-WELL6-C2		4-9-91	1230		X	X			5	X					TAKEN FOR J. DESANTIS

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	4-9-91 1230		[signature]	4-9-91 1404	[signature] LAB-11 4-9-91 1405
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-8 - Water Line Installation

JOB T.	PROJ NO.	BY	DATE	SHEET
ALTRESCO PROPOSED WATERLINE SAMPLING (WELL #6)	101-75-13	HE	4 24 91	

Request for Sampling

Date: 4-16-91

Initiator: Jackie Desantis

BLDG Location: Altresco Site

Contact Person Jackie Desantis Ext 3306

Item Description

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis (G.E.) 1.) Two locations 0'-6' to be sampled for P.C.B.'s method 8080. 2) PID reading to be taken and if > 10 P.P.M. soil to be analyzed for VOC's method 8240 and semi-volatiles method 8270. Sampling program was conducted on a discrete grab sample basis. CBI augered the two 0'-6' holes.

RECEIVED TO GRW: BOWMAN (GE) 5-24-91

5-2

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Altresco Proposed Water Line Sampling

Date: 4-26-91
File No: 101-75-13
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted at Altresco site on 4-16-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ALTR-PWL-C1	64.0	1	SOIL	DISCRETE-GRAB	0-6'
ALTR-PWL-C2	540.0	2	SOIL	DISCRETE-GRAB	0-6'

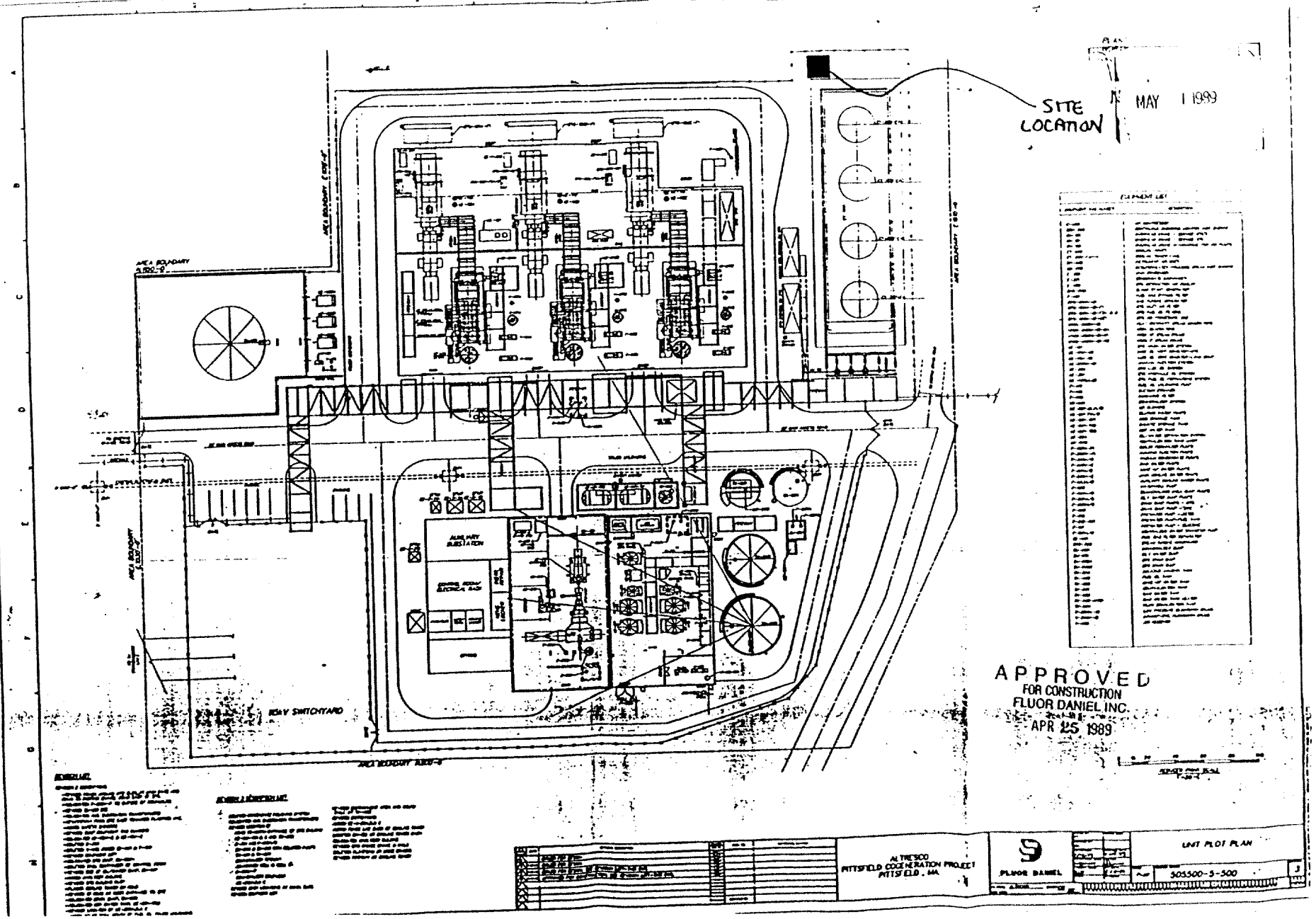
VOC SAMPLING RESULTS METHOD 8240

ALTR-PWL-C3	(SEE OBG LAB REPORT)	2	SOIL	DISCRETE-GRAB	0-6'

SEMI-VOLATILES SAMPLING RESULTS METHOD 8270

ALTR-PWL-C4	(SEE OBG LAB REPORT)	2	SOIL	DISCRETE-GRAB	0-6'

jjh


SITE LOCATION
MAY 1999
APPROVED
FOR CONSTRUCTION
FLUOR DANIEL INC.
APR 25 1989
345kV SWITCHYARD
AUXILIARY SUBSTATION
ALTRESCO
PITTSFIELD COGENERATION PROJECT
PITTSFIELD, MA
FLUOR DANIEL
UNIT PLOT PLAN
305500-5-500

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

ALTRESCO PROPOSED WATERLINE SAMPLING
WELL #6
101-75-13

DATE: 4-16-91
OPERATOR: JIM HASSETT

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
1	6.2	11.0	8.6
2	17.8	16.8	17.3

HNU CALIBRATION
ALTRESCO PROPOSED WATERLINE SAMPLING
WELL #6
101-75-13

DATE: 4-16-91
OPERATOR: J HASSETT

HNU SERIAL NO: A70129
eV OF PROBE: 10.2

CALIBRATION GAS: 9.80 - span setting @ 55.0 ppm

INITIAL READING: 9.80 span setting @ 42.0 ppm

ADJUSTED SETTING: 7.44 span setting @ 55.0 ppm

NOTES:

OBG LABORATORIES, INC.

Volatile Organics
Method 8240

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Altresco Proposed Water Line Well #6 B & B # 101.75.13

Pittsfield, MA - ALT 12 PWL-C3 MATRIX: soil

SAMPLE NO. M2586 DATE COLLECTED 4-16-91 DATE REC'D. 4-19-91 DATE ANALYZED 4-30-91

Chloromethane	<20.	1,2-Dichloropropane	<10.
Bromomethane		cis-1,3-Dichloropropene	
Vinyl chloride		Trichloroethene	
Chloroethane		Dibromochloromethane	
Methylene chloride	<10.	1,1,2-Trichloroethane	
Acetone	<20.	Benzene	
Carbon disulfide	<10.	trans-1,3-Dichloropropene	
1,1-Dichloroethene		Bromoform	
1,1-Dichloroethane		4-Methyl-2-pentanone	<20.
1,2-Dichloroethene (total)		2-Hexanone	<20.
Chloroform		Tetrachloroethene	<10.
1,2-Dichloroethane		1,1,2,2-Tetrachloroethane	
2-Butanone	<20.	Toluene	
1,1,1-Trichloroethane	<10.	Chlorobenzene	
Carbon tetrachloride	<10.	Ethylbenzene	
Vinyl acetate	<20.	Styrene	
Bromodichloromethane	<10.	Xylene (total)	

Comments: Elevated detection limits due to matrix interferences.

Methodology: EPA Target Compound List By 8240 SW-846 November 1986, 3rd Edition

Certification No.: 10155

Units: µg/kg

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5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Authorized: [signature]

Date: May 15, 1991

OBG LABORATORIES, INC.

Semivolatile Organics
Method 8270

6-7

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION Altresco Proposed Water Line, Well #6 B & B # 101.75.13

Pittsfield, MA - ALT 12-PWL-C4 MATRIX: Soil

SAMPLE NO. M2587 DATE COLLECTED 4-16-91 DATE RECEIVED 4-19-91

DATE EXTRACTED 4-25-91 DATE ANALYZED 4-26-91

Phenol	<3800.	4-Chloro-3-methylphenol	<3800.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<18,000.
Benzyl alcohol		2-Chloronaphthalene	<3800.
1,2-Dichlorobenzene		2-Nitroaniline	<18,000.
2-Methylphenol		Dimethylphthalate	<3800.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<18,000.
Hexachloroethane		Acenaphthene	9300.
Nitrobenzene		2,4-Dinitrophenol	<18,000.
Isophorone		4-Nitrophenol	<18,000.
2-Nitrophenol		Dibenzofuran	7200.
2,4-Dimethylphenol		2,4-Dinitrotoluene	<3800.
Benzoic acid	<18,000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<3800.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	9200.
1,2,4-Trichlorobenzene		4-Nitroaniline	<18,000.
Naphthalene		4,6-Dinitro-2-methylphenol	<18,000.
4-Chloroaniline		N-Nitrosodiphenylamine	<3800.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<3800.

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Authorized: Anthony Cimino

Date: May 15, 1991

LABORATORIES, INC.

Semivolatile Organics
Method 8270

CLIENT: BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.517

DESCRIPTION: Altresco Proposed Water Line, Well #6 B & B # 101.75.13

Pittsfield, MA - ALT 12-PWL-C4 MATRIX: Soil

SAMPLE NO. M2587 DATE COLLECTED 4-16-91 DATE RECEIVED 4-19-91

DATE EXTRACTED 4-25-91 DATE ANALYZED 4-26-91

Hexachlorobenzene	<3800.
Pentachlorophenol	<18,000.
Phenanthrene	34,000.
Anthracene	5400.
Di-n-butylphthalate	<3800.
Fluoranthene	31,000.
Pyrene	20,000.
Butylbenzylphthalate	<18,000.
3,3'-Dichlorobenzidine	<8000.
Benzo (a) anthracene	<3800.
Chrysene	5700.
Bis (2-ethylhexyl) phthalate	<3800.
Di-n-octylphthalate	
Benzo (b) fluoranthene	
Benzo (k) fluoranthene	
Benzo (a) pyrene	
Indeno (1,2,3-cd) pyrene	
Dibenz (a,h) anthracene	
Benzo (g,h,i) perylene	

Comments: Elevated detection limits due to matrix interferences.

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.: 10155

Units: µg/kg dry weight

Authorized: [illegible]

Date: May 15, 1991

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2236

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-13

Date Analyzed 4/18 → 4/20/91 DATE COLLECTED See Below DATE RECEIVED 4/17/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
ALTR-PWL-C1	4/17	4/16	55	86	64	soil	A
ALTR-PWL-C2	↓	↓	460	85	540	soil	↓
A) Reagent Blank 2:					< 1		
Matrix Spike ALTR-PWL-C2:					*		
Matrix Spike Duplicate:					*		
Precision:					*		

Comments:

* Unable to calculate due to matrix interference.

Certification No.:

Units: ug/g = ppm

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5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Authorized: _____

Date: _____

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-9 - Electrical Line Installation

Request for Sampling

Date: 4-24-91

Initiator: Jackie Desantis

BLDG. Location: Altresco Site

Contact Person Jackie Desantis Ext. 3306

Item Description

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis (G.E.) 1.) One location 0'-6' to be sampled for P.C.B.'s method 8080.
2.) PID reading to be taken and if > 10 P.P.M. soil to be analyzed for VOC's method 8240 and semi-volatiles method 8270. Sampling program was conducted on a discrete-grab sample basis. C.B.I. augered the 0'-6' hole

DELIVERED TO
GRANT BOWMAN (GE)
5-13-91

9-2

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Altresco Proposed Electrical Line Sampling

Date: 5-1-91
File No: 101-75-13
cc: Grant Bowman (GE)
Jackie DeSantis (GE)

The following is a summary of the sample results for the PCB sampling program conducted at Altresco site on 4-24-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
ALTR-PEL-C1	220.0	1	SOIL	DISCRETE-GRAB	0-6'

VOC SAMPLING RESULTS METHOD 8240

ALTR-PEL-C2	(SEE OBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-6'

SEMI-VOLATILES SAMPLING RESULTS METHOD 8270

ALTR-PEL-C3	(SEE OBG LAB REPORT)	1	SOIL	DISCRETE-GRAB	0-6'

jjh

Maximum Depth of Excavation = 6 ft

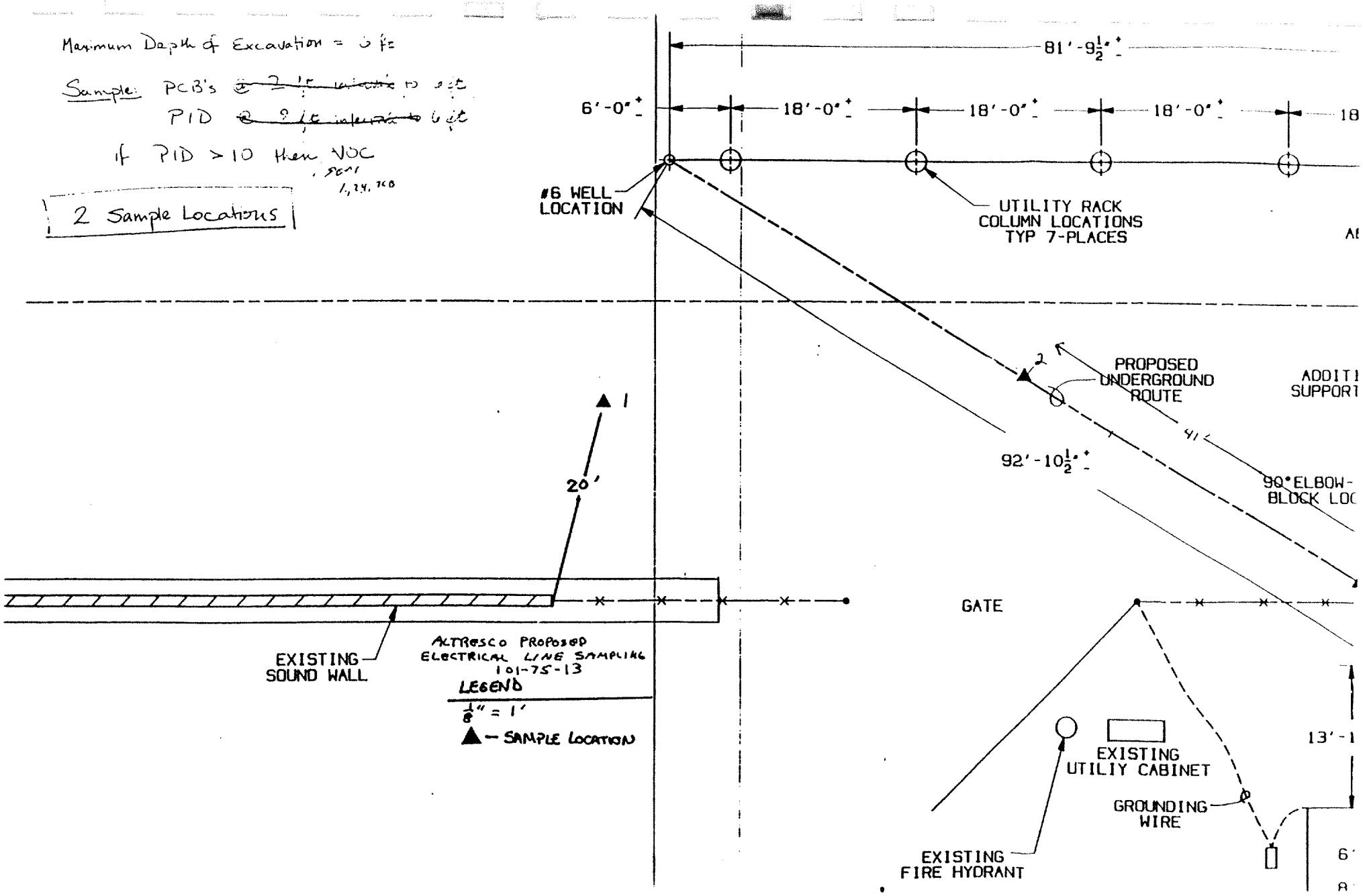
Sample: PCB's ~~@ 2 ft interval~~ to 6 ft

PID ~~@ 2 ft interval~~ 6 ft

If PID > 10 Then VOC

8011
1,24,TCD

2 Sample Locations



BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING
ALTRESCO PROPOSED ELECTRICAL
LINE SAMPLING
101-75-13

DATE: 4-24-91
OPERATOR: JIM HASSETT

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
1	21.0	6.8	13.9

OBG LABORATORIES, INC.

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Laboratory Report

-1-6

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-13

Date Analyzed 4/25/91 DATE COLLECTED See Below DATE RECEIVED 4/24/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
ALTR-PEL-C1	4/25/91	4/24/91	190	87	220	soil	A
A) Reagent Blank 1:					< 1		

Comments:

Certification No.:

Units: ug/g = ppm

Authorized:

Date:

OBG LABORATORIES, INC.

Semivolatile Organics
Method 8270

CLIENT BLASLAND & BOUCK ENGINEERS JOB NO. 2557.026.577

DESCRIPTION ALTRESCO PROPOSED ELECTRICAL LINE

Pittsfield MA ALTC-PCL-CC 3 MATRIX: SOIL

SAMPLE NO. M2987 DATE COLLECTED 04/24/91 DATE RECEIVED 04/25/91

DATE EXTRACTED 04/25/91 DATE ANALYZED 04/25/91

Phenol	<800	4-Chloro-3-methylphenol	<800
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene	<300	2,4,5-Trichlorophenol	<3700
Benzyl alcohol	<800	2-Chloronaphthalene	<800
1,2-Dichlorobenzene		2-Nitroaniline	<3700
2-Methylphenol		Dimethylphthalate	<800
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<3700
Hexachloroethane		Acenaphthene	<800
Nitrobenzene		2,4-Dinitrophenol	<3700
Isophorone		4-Nitrophenol	<3700
2-Nitrophenol		Dibenzofuran	<800
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<3700	Diethylphthalate	
Bis (2-chloroethoxy) methane	<800	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<3700
Naphthalene		4,6-Dinitro-2-methylphenol	<3700
4-Chloroaniline		N-Nitrosodiphenylamine	<800
Hexachlorobutadiene		4-Bromophenyl-phenylether	<800

Authorized: _____

Date: _____

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5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-10 - Altresco Stairway Installation

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ NO.	BY	DATE	SHE
ALTRESCO STAIRWAY TOWER SAMPLING	101-75-13	HE	6/21/91	

Request for Sampling

Date: 4-30-91

Initiator: Jackie Desantis (G.E.)

BLDG. Location: Altresco Site

Contact Person Jackie Desantis (GE) Ext. 3306

Item Description

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis (
1.) Two locations selected by Jackie Desantis (G.E
at the Altresco site to be sampled at 0'-4' fo
P.C.B's method 8080
2.) PID readings to be taken and if the reading
exceed 10 ppm soil to be analyzed for VOC's
method 8240 and semi volatiles method 8270
Sampling program was conducted on a discre

HNU CALIBRATION

ALTRESCO STAIRWAY TOWER SAMPLING
101-75-13

DATE: 5-30-91
OPERATOR: AL PEART

HNU SERIAL NO: A 70129
eV OF PROBE: 10.2

CALIBRATION GAS: 9.80 span setting @ 55 ppm

INITIAL READING: 9.80 span setting @ 38 ppm

ADJUSTED SETTING: 6.60 span setting @ 55 ppm

NOTES:

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

ALTRESC STAIRWAY TOWER SAMPLING

10-75-13

DATE: 5/30/91
OPERATOR: AL PEART / JIM HASSET
CALIBRATION DATE: 5-30-91
CALIBRATED BY: AL PEART

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
1	10.4	10.2	10.3
2	8.8	8.6	8.7

2935

OBG LABORATORIES, INC.

Laboratol Repo

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-13

Date Analyzed 6/5/91 DATE COLLECTED See Below DATE RECEIVED 5/30/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESU
ALTR-SWT-C1	6/4/91	5/30/91	4.1	90	4.6	soil	A
ALTR-SWT-C2	↓	↓	1.3	89	1.5	↓	↓

A) Reagent Blank 1: < 1

Matrix Spike ALTR-SWT-C1: 3.2/4.9 = 66%

Matrix Spike Duplicate: 2.7/5 = 55%

Precision: 11%

Comments:

Certification No.:

Units: ug/g = ppm

Authorized:

Date:

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5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

OBG LABORATORIES, INC.

PRELIMINARY

Semivolatile Organics
Method 8270

D-7

CLIENT BLASLAND ; BOUCK ENGINEERS PC JOB NO. 2887.026.517

DESCRIPTION ALTRESCO STAIRWAY TOWER

ALTR-SWT-C.4 MATRIX: SOIL

SAMPLE NO. M5274 DATE COLLECTED 05/30/91 DATE RECEIVED 06/03/91

DATE EXTRACTED 06/03/91 DATE ANALYZED 06/03/91

Hexachlorobenzene	<370	Benzo (a) anthracene	<370
Pentachlorophenol	<1800	Chrysene	
Phenanthrene	<370	Bis (2-ethylhexyl) phthalate	
Anthracene		Di-n-octylphthalate	
Di-n-butylphthalate		Benzo (b) fluoranthene	
Fluoranthene		Benzo (k) fluoranthene	
Pyrene		Benzo (a) pyrene	
Butylbenzylphthalate		Indeno (1,2,3-cd) pyrene	
3,3'-Dichlorobenzidine	<730	Dibenz (a,h) anthracene	
		Benzo (g,h,i) perylene	

Comments:

Methodology: EPA Target Compound List By 8270, SW-846 November 1986, 3rd Edition

Certification No.:

Units: µg/kg DRY WEIGHT

Elevated detection limits due to matrix interferences.

Values flagged with a "B" indicate the analyte was detected in the laboratory blank. The blank exhibited _____ µg/_____ of bis(2-ethylhexyl)phthalate.

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Authorized: _____

Date: _____

OBG LABORATORIES, INC.

PRELIMINARY

Semivolatile Organi
Method 82

10-8

CLIENT BLASLAND & BOUCK ENGINEERS, PC JOB NO. 2887.024.517

DESCRIPTION ALTRESCO STAIRWAY TOWER

ALTR-SWT-C4 MATRIX: SOIL

SAMPLE NO. M5224 DATE COLLECTED 05/30/91 DATE RECEIVED 06/03/91

DATE EXTRACTED 06/03/91 DATE ANALYZED 06/03/91

Phenol	<370
Bis (2-chloroethyl) ether	
2-Chlorophenol	
1,3-Dichlorobenzene	
1,4-Dichlorobenzene	
Benzyl alcohol	
1,2-Dichlorobenzene	
2-Methylphenol	
Bis (2-chloroisopropyl) ether	
4-Methylphenol	
N-Nitroso-di-n-propylamine	
Hexachloroethane	
Nitrobenzene	
Isophorone	
2-Nitrophenol	
2,4-Dimethylphenol	
Benzoic acid	<1800
Bis (2-chloroethoxy) methane	<370
2,4-Dichlorophenol	
1,2,4-Trichlorobenzene	
Naphthalene	
4-Chloroaniline	
Hexachlorobutadiene	
4-Chloro-3-methylphenol	<370
2-Methylnaphthalene	
Hexachlorocyclopentadiene	
2,4,6-Trichlorophenol	
2,4,5-Trichlorophenol	<1800
2-Chloronaphthalene	<370
2-Nitroaniline	<1800
Dimethylphthalate	<370
Acenaphthylene	
2,6-Dinitrotoluene	
3-Nitroaniline	<1800
Acenaphthene	<370
2,4-Dinitrophenol	<1800
4-Nitrophenol	<1800
Dibenzofuran	<370
2,4-Dinitrotoluene	
Diethylphthalate	
4-Chlorophenyl-phenylether	
Fluorene	
4-Nitroaniline	<1800
4,6-Dinitro-2-methylphenol	<1800
N-Nitrosodiphenylamine	<370
4-Bromophenyl-phenylether	<370

Authorized: _____

Date: _____

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OBG LABORATORIES, INC.

PRELIMINARY

Volatile Organ
Method 82

CLIENT Blasland & Bouck Engineers, P.C. JOB NO. 2887.026.5

DESCRIPTION Alresco Stateway Tower
ALTR-SWT-C3 MATRIX: Soil

SAMPLE NO. M5273 DATE COLLECTED 5/30/91 DATE RECD. 6/3/91 DATE ANALYZED 6/3/

Chloromethane	<11
Bromomethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	<5
Acetone	<11
Carbon disulfide	<5
1,1-Dichloroethene	
1,1-Dichloroethane	
1,2-Dichloroethene (total)	
Chloroform	
1,2-Dichloroethane	
2-Butanone	<11
1,1,1-Trichloroethane	<5
Carbon tetrachloride	<5
Vinyl acetate	<11
Bromodichloromethane	<5
1,2-Dichloropropane	<5
cis-1,3-Dichloropropene	
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
Benzene	
trans-1,3-Dichloropropene	
Bromoform	
4-Methyl-2-pentanone	<11
2-Hexanone	<11
Tetrachloroethene	<5
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethylbenzene	
Styrene	
Xylene (total)	

Comments:

Methodology: EPA Target Compound List By 8240 SW-846 November 1986, 3rd Edition

Certification No.:

Units: ug/kg

Elevated detection limits due to matrix interferences.

Values flagged with a "B" indicate the analyte was detected in the laboratory blank. The blank exhibited _____µg/____ of methylene chloride and _____µg/____ of acetone.

Authorized: _____

Date: _____

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-11 - Altresco Utility Line Excavation

BLASLAND & BOUCK ENGINEERS, P.C.

RESCO UTILITY LINE (WATER & ELECTRICAL) SAMPLING	PROJ NO. 101-75-13	BY HE	DATE 6/21/91	SHEET

1-1

Request for Sampling

Date: 6-10-91

Initiator: Jackie Desantis

BLDG. Location: Altresco Site

Contact Person Jackie Desantis (G.E.) Ext. 3306

Item Description

1) Soil

2)

Notes: The following sampling criteria was implemented at the request of Jackie Desantis (G.E.)

1) Utility line soil pile (water & electrical) see reports dated that were combined into one pile to be sampled for TCLP no herbicides and pesticides

2) To be taken to Pittsfield G.E. Lab (Jeff Nicholson G.E.) for ALPHA Analytical courrier.

A [illegible] program was conducted on a composite grab

Sample ID ALTR-ULS-C1		Result mg/L	Regulatory Lim mg/L	
Arsenic	<	.1	5.000	OK
Barium		.05	100.000	OK
Cadmium	<	.01	1.000	OK
Chromium	<	.02	5.000	OK
Lead	<	.05	5.000	OK
Mercury	<	.0005	.200	OK
Selenium	<	.005	1.000	OK
Silver	<	.05	5.000	OK
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
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

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

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

CERTIFICATE OF ANALYSIS

Client:	General Electric Company	Laboratory Job Number:	913600
Address:	100 Woodlawn Avenue	Invoice Number:	21879
	Pittsfield, MA 01201	Date Received:	06/11/91
Attn:	William Fessler	Date Reported:	06/20/91
Client Designation:	Project# 101-75-13	Delivery Method:	Alpha Courier

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
913600.1	ALTR-ULS-C1	N/A
913600.1S	ALTR-ULS-C1 (Spike Recovery)	N/A

Authorized by: _____
Scott McLean - Laboratory Director

mar

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: 913600.1 Date Received: 06/11/91

Sample Matrix: Soil Date Reported: 06/20/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One large glass jar and four VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL**	REF*	METHOD	DATES EXT/PREP	DATES ANALYSIS
TCLP Extraction	----	-----	---	13	1311	06/12/91	------
RCRA 8 Metals							
Arsenic	ND	mg/L	0.10	1	6010	06/13/91	06/14/91
Barium	0.29	mg/L	0.05	1	6010	06/13/91	06/14/91
Cadmium	ND	mg/L	0.01	1	6010	06/13/91	06/14/91
Chromium	ND	mg/L	0.02	1	6010	06/13/91	06/14/91
Lead	ND	mg/L	0.05	1	6010	06/13/91	06/14/91
Mercury	ND	mg/L	0.0005	1	7470	06/13/91	06/14/91
Selenium	ND	mg/L	0.005	1	7740	06/13/91	06/14/91
Silver	ND	mg/L	0.01	1	6010	06/13/91	06/14/91
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	06/17/91	06/18/91
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	06/17/91	06/18/91
Hexachlorobenzene	ND	mg/L	0.011	1	8270	06/17/91	06/18/91
Hexachloro-1,3-butadiene	ND	mg/L	0.032	1	8270	06/17/91	06/18/91
Hexachloroethane	ND	mg/L	0.020	1	8270	06/17/91	06/18/91
Nitrobenzene	ND	mg/L	0.0076	1	8270	06/17/91	06/18/91
Pentachlorophenol	ND	mg/L	0.0368	1	8270	06/17/91	06/18/91
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	06/17/91	06/18/91
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	06/17/91	06/18/91
Pyridine	ND	mg/L	0.10	1	8270	06/17/91	06/18/91

Acid/Base/Neutral Extractables	% Surrogate Recovery
2-Fluorophenol	14%
Phenol-d5	16%
Nitrobenzene-d5	82%
2-Fluorobiphenyl	69%
2,4,6-Tribromophenol	28%
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: 913600.1 **Date Received:** 06/11/91

Sample Matrix: Soil **Date Reported:** 06/20/91

Condition of Samples: Satisfactory **Field Prep:** None

Number & Type of Containers: One large glass jar and four VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	RESULT	UNITS	MDL**	REF*	METHOD	DATES EXT/PREP	DATES ANALYSIS
TCLP Extraction	----	-----	---	13	1311	06/14/91	------
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	06/20/91
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	06/20/91
Chlorobenzene	ND	mg/L	0.018	1	8240	----	06/20/91
Chloroform	ND	mg/L	0.0075	1	8240	----	06/20/91
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	06/20/91
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	06/20/91
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	06/20/91
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	06/20/91
Trichloroethene	ND	mg/L	0.005	1	8240	----	06/20/91
Vinyl chloride	ND	mg/L	0.018	1	8240	----	06/20/91
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	06/20/91

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	84%
Toluene-d8	102%
4-Bromofluorobenzene	99%

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: 913600.1S Date Received: 06/11/91

Sample Matrix: Soil Date Reported: 06/20/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One large glass jar and four VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	% RECOVERY
TCLP RCRA 8 Metals	
Arsenic	101%
Barium	103%
Cadmium	70%
Chromium	97%
Lead	96%
Mercury	100%
Selenium	92%
Silver	93%
TCLP Acid/Base Neutral Extractables	
Total cresol	32%
2,4-Dinitrotoluene	95%
Hexachlorobenzene	93%
Hexachloro-1,3-butadiene	60%
Hexachloroethane	62%
Nitrobenzene	93%
Pentachlorophenol	25%
2,4,5-Trichlorophenol	52%
2,4,6-Trichlorophenol	50%
Pyridine	3.3%

Acid/Base/Neutral Extractables	% Surrogate Recovery
2-Fluorophenol	22%
Phenol-d5	19%
Nitrobenzene-d5	83%
2-Fluorobiphenyl	74%
2,4,6-Tribromophenol	38%
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: 913600.1S **Date Received:** 06/11/91

Sample Matrix: Soil **Date Reported:** 06/20/91

Condition of Samples: Satisfactory **Field Prep:** None

Number & Type of Containers: One large glass jar and four VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	% RECOVERY
TCLP Volatile Organics	
Benzene	100%
Carbon tetrachloride	91%
Chlorobenzene	104%
Chloroform	91%
1,4-Dichlorobenzene	97%
1,2-Dichloroethane	100%
1,1-Dichloroethene	95%
Tetrachloroethene	100%
Trichloroethene	87%
Methyl ethyl ketone	88%

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	97%
Toluene-d8	103%
4-Bromofluorobenzene	100%

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

ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS

FOR INORGANICS

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

ALPHA ANALYTICAL LABORATORIES

ACCEPTABLE MATRIX SPIKE RECOVERY LIMITS

FOR ORGANICS

FRACTION	MATRIX SPIKE COMPOUND	WATER	SOIL/SEDIMENT
VOA	1,1-Dichloroethene	61-145 %	59-172 %
VOA	Trichloroethene	71-120 %	62-137 %
VOA	Chlorobenzene	75-130 %	60-133 %
VOA	Toluene	76-125 %	59-139 %
VOA	Benzene	76-127 %	66-142 %
BN	1,2,4-Trichlorobenzene	39-98 %	38-107 %
BN	Acenaphthene	46-118 %	31-137 %
BN	2,4-Dinitrotoluene	39-139 %	39-139 %
BN	Di-n-butyl phthalate	11-117 %	29-135 %
BN	Pyrene	26-127 %	35-142 %
BN	N-nitros-di-n-propylamine	41-116 %	41-126 %
BN	1,4-Dichlorobenzene	36-97 %	28-104 %
Acid	Pentachlorophenol	14-176 %	14-176 %
Acid	Phenol	12-89 %	26-90 %
Acid	2-Chlorophenol	27-123 %	25-102 %
Acid	4-Chloro-3-methylphenol	23-97 %	26-103 %
Acid	4-Nitrophenol	10-80 %	11-114 %
Pest.	Lindane	56-123 %	46-127 %
Pest.	Heptachlor	40-131 %	35-130 %
Pest.	Aldrin	40-120 %	34-132 %
Pest.	Dieldrin	52-126 %	31-134 %
Pest.	Endrin	56-121 %	42-139 %
Pest.	4,4'-DDT	38-127 %	23-134 %

ALPHA ANALYTICAL LABORATORIES

ACCEPTABLE SURROGATE SPIKE RECOVERY LIMITS

FRACTION	SURROGATE COMPOUND	LOW/MEDIUM WATER	LOW/MEDIUM SOIL/SEDIMENT
VOA	Toluene-d_8	88-110 %	81-117 %
VOA	4-Bromofluorobenzene	86-115 %	74-121 %
VOA	1,2-Dichloroethane-d_4	76-114 %	70-121 %
BNA	Nitrobenzene-d_5	35-114 %	23-120 %
BNA	2-Fluorobiphenyl	43-116 %	30-115 %
BNA	p-Terphenyl-d_{14}	33-141 %	18-137 %
BNA	Phenol-d_5	10-94 %	24-113 %
BNA	2-Fluorophenol	10-100 %	25-121 %
BNA	2,4,6-Tribromophenol	10-123 %	19-122 %
Pest.	Dibutylchlorendate	24-154 %	20-150 %

ALPHA ANALYTICAL LABS
ADDENDUM I
REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

2. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 16th Edition. 1985.

3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-82-055. 1983.

5. Oil Spill Identification System. CG-D-52-77 U. S. Coast Guard. 1977.

6. Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water. EPA 600/4-82-057. 1982.

7. U. S. Department of Health & Human Services, National Institute of Occupational Safety and Health. Peter M. Eller, NIOSH Manual of Analytical Methods, Third Edition, 1984.

8. Handbook of Analytical Quality Control in Water and Wastewater Laboratories. EPA 600/4-79-019. March 1979.

9. The United States Pharmacopeia. The National Formulary. USP 20th Edition. Formulary 15th Edition. 1980.

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11. Manual of Analytical Quality Control for Pesticides in Human and Environmental Media. PB 261 019. EPA 600/1-76-017. February 1975.

12. Annual Book of ASTM Standards. Sections 0, 3, 4, 5, 6, 8, 9, 11, and 14. American Society for Testing and Materials 1986.

13. 40 CFR Part 261, App. II. Method 1311 Toxicity Characteristic Leaching Procedure (TCLP). July 1, 1990 Edition.

14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. Available from USEPA, Cincinnati, 26 West Martin Luther King Drive, Cincinnati, Ohio, 45268.

15. Interim Methods for the Determination of Asbestiform Minerals in Bulk Insulation Samples, Research Triangle Institute, June 1980. Asbestos Containing Materials in School Buildings: A Guidance Document, March 1979, USEPA Document C00090, parts 1 & 2.

16. Interim Methods for the Determination of Asbestos in Bulk Insulation Samples (EPA-600/M4-82-020).

17. "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," Publication EPA-600/4-80-032, U. S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, August 1980.

18. "Clean Harbors Radiological Environmental Analytical Procedures," Clean Harbors Analytical Services, Braintree, MA, October 1985.

19. H. M. Prichard and T. F. Gesell, "Rapid Measurement of RN-222 Concentrations in Water with a Commercial Liquid Scintillation Counter", Health Physics, Volume 33, 1977, pp. 577-581.

20. "Handbook for Analytical Quality Control in Water and Wastewater Laboratories", March 1979, EPA 600/4-79-019.

21. Analysis of PCB's in Transformer Fluid and Waste Oil. EPA 600/4-81-045. 1981.

22. Klute, A. 1986, "Methods of Soil Analysis, Part 1", Methods 15-2.2 and 15-5.1. American Society of Agronomy, Madison, WI.

23. Exhibit No. 1. Petroleum Oils by Gas Chromatography. Alley, Young & Baumartner, Inc., Consulting Engineers, P.O. Box 2036, Brentwood, TN 37024.

24. Principal Organic Hazardous Constituents and Products of Incomplete Combustion Screening Protocol. Southern Research Institute, October 1989.

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME
101-75-13	ALTRESCO UTILITY LINE SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID Soil	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TCLP - NO HERBICIDES OR PESTICIDES					REMARKS
ALTR-ULS-C1		6-10-91	1045		X	X			5	X					J. Desantis
															Please Send Report.
															GEC,
															100 Woodlawn Ave
															Pittsfield Ma 01201
															ATTN: W. Fessler
															MAIL Drop C23

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
James Jarrett III	6-10-91 1045		James Jarrett III	6-11-91 1210	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
J Nicholson	6-11-91 12:00 NOON	K McGinn		6/11/91 4:50	J. Willeford
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
		VM Sweeney	6-10-91 12:10 AM	Please use P.O. # A3K-PX302170 for the costs for Analysis.	

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-12 - Altresco Tanker Unloading Station Excavation

BLASLAND & BOUCK ENGINEERS P.C.
(REQUEST FOR SAMPLING)

To: Files

Date: 4-29-92

From: Bruce Eulian

File No: 101-75-13

Re: Altresco Tanker Unloading Station
Soil Sampling (pre-excavation)

INITIATOR: Jackie DeSantis (GE)

DATE: 3-24-92

BLDG. LOCATION: Tanker Unloading Station

CONTACT PERSON: Jackie DeSantis (GE) EXT: 3306

ITEM DESCRIPTION:

1.) Soil (discrete-grab)

PURPOSE: To collect a sample for GE to determine the proper disposal method for the soil that is to be excavated at the south side of the retainig wall of the tanker unloading station. The area to be excavated is going to be approximately 4'X4'X2' deep.

NOTES: The following sampling program was implemented at the request of Jackie DeSantis (GE).

1.) One pre-excavation soil sample is to be collected and analyzed for PCB's method 8080. The soil sample is not to be screened for Volatile Organic Compounds with a PID, as described in the document entitled Protocols For The Management Of Excavation Activities dated April 1990. This is not to be done due to the fact that the company that is going to do the excavating is going to screen the soil as it is being excavated.

agp

12-2

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

o: Files
rom: Bruce Eulian
e: Altresco Tanker Unloading Station
Soil Sampling (pre-excavation)

Date: 4-29-92
File No: 101-75-13
cc: Grant Bowman (GE)
Jackie DeSantis (GE)

The following is a summary of the sampling program conducted on 3-24-92,on the soil that is to be excavated from the south ide of the retaining wall at the tanker unloading station. The area to be excavated is going to be approximately 4'X4'X2' deep. he soil was not screened for Volatile Organic Compounds with a PID, as described in the document entitled Protocols For The lanagement Of Excavation Activities dated April 1990. This was not done due to the fact that the company that is going to do the xcavating is going to screen the soil as it is being excavated.

At the reciest of Jackie DeSantis (GE),the following sampling was performed;

- 1 discrete-grab sample of soil

A summary table of the sampling program results have been provided (Table 1), including a drawing showing the site location Figure 1) and sample location (Figure 2). An analytical report provided by QBQ Laboratories has also been included (Attachment 1).

agp

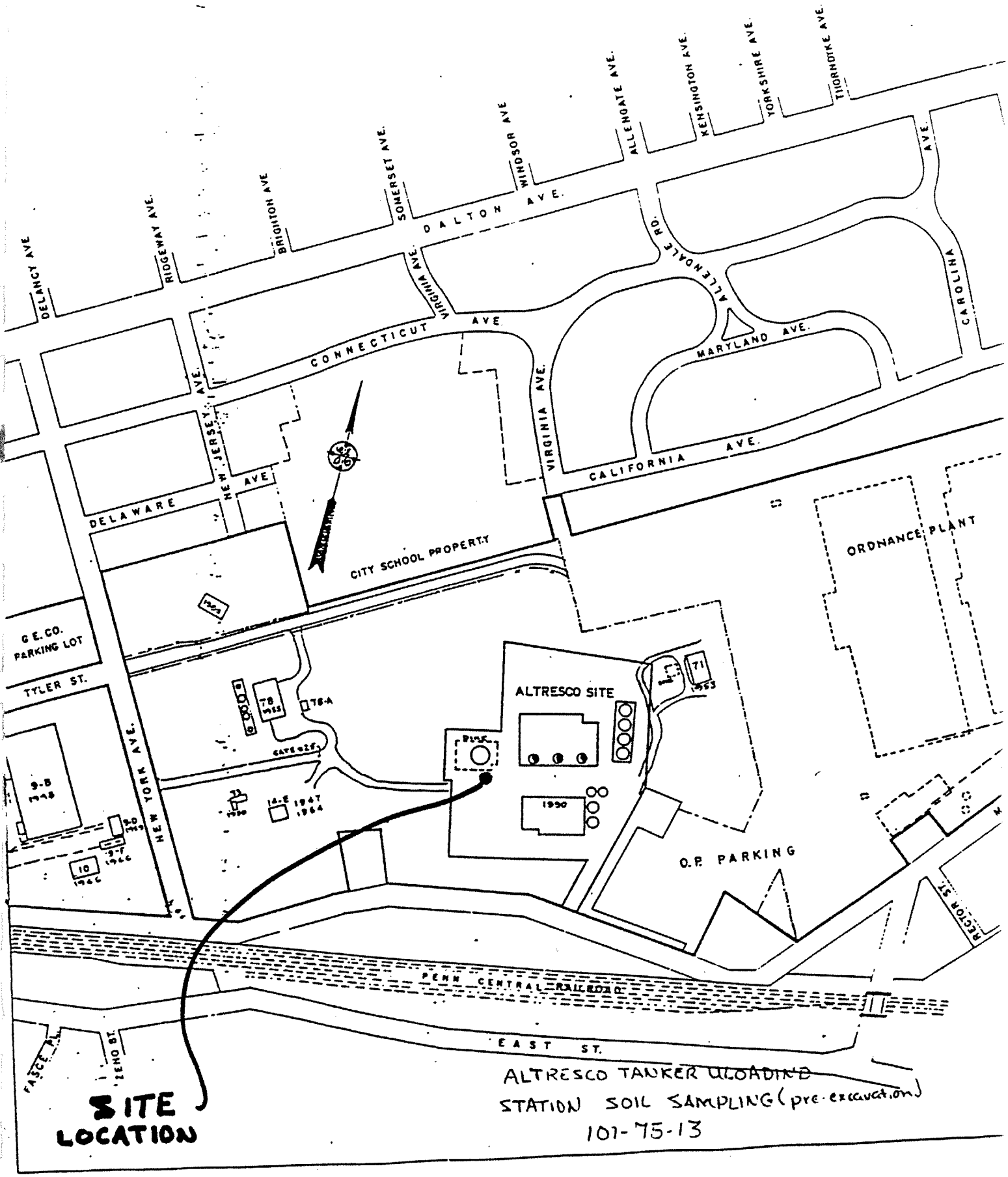
Altresco Tanker Unloading Station
Soil Sampling (pre-excavation)
101-75-13

Table 1

CB SAMPLING RESULTS METHOD 8080

AB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
LTR-TUS-01	3-24-92	2.3	1	SOIL	DISCRETE-GRAB	0 - 2'	2

FIGURE # 1


DELANCY AVE
RIDGEWAY AVE.
BRIGHTON AVE
SOMERSET AVE.
DALTON AVE.
WINDSOR AVE
ALLENGATE AVE.
KENSINGTON AVE.
YORKSHIRE AVE.
THORNDIKE AVE.
CONNECTICUT AVE.
VIRGINIA AVE.
ALLENDALE RD.
MARYLAND AVE.
CAROLINA AVE.
CALIFORNIA AVE.
DELAWARE AVE.
NEW JERSEY AVE.
CITY SCHOOL PROPERTY
ORDNANCE PLANT
G.E.CO. PARKING LOT
TYLER ST.
NEW YORK AVE.
ALTRESCO SITE
O.P. PARKING
PENN CENTRAL RAILROAD
EAST ST.
FASCE PL.
ZENO ST.
REGION ST.
SITE LOCATION
ALTRESCO TANKER OLOADING
STATION SOIL SAMPLING (pre-excavation)
101-75-13

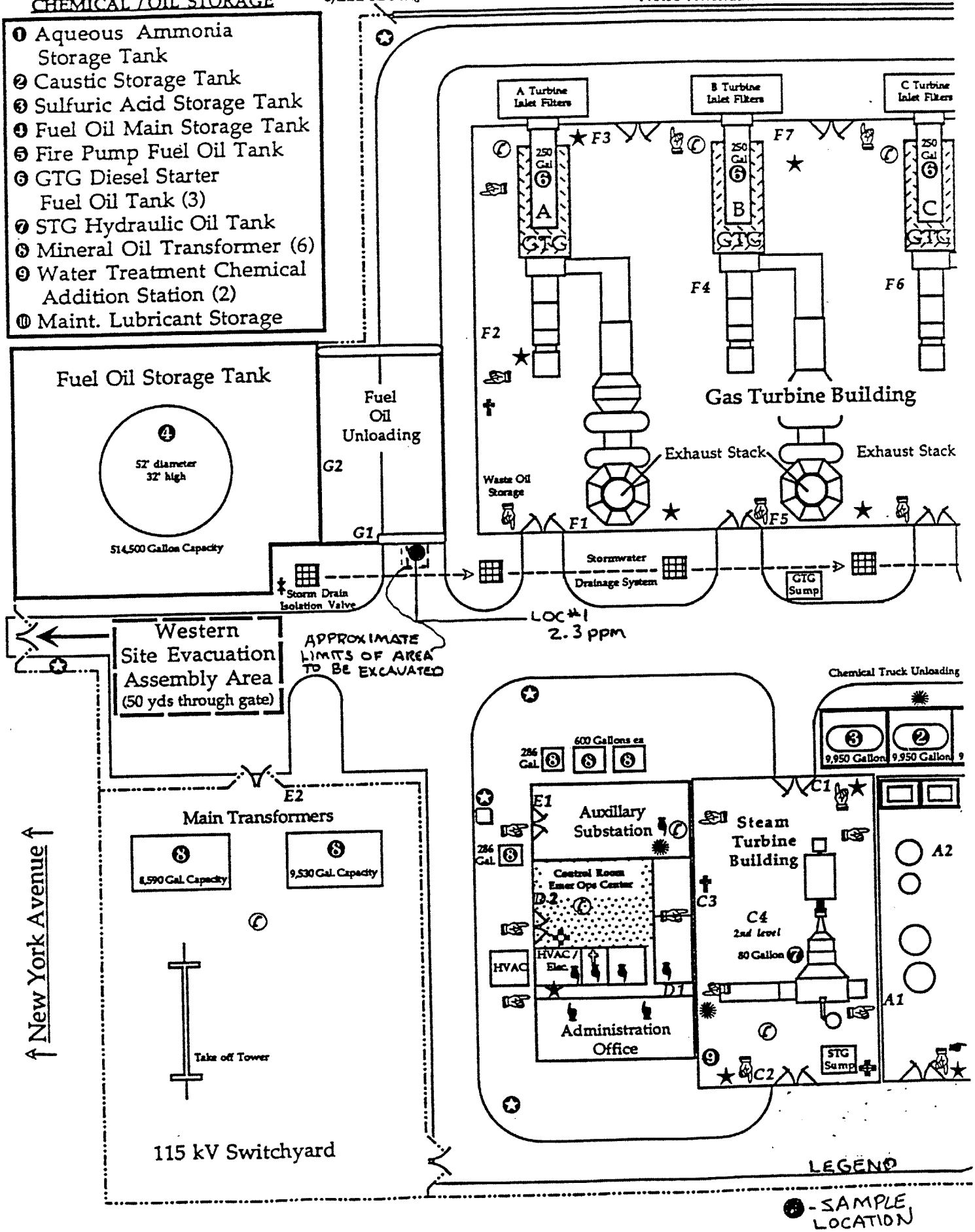
ALFRESCO TANKER UNLOADING STATION
SOIL SAMPLING (PRE-EXCAVATION)

FIGURE # 2

12-5

CHEMICAL / OIL STORAGE

1. Aqueous Ammonia Storage Tank
2. Caustic Storage Tank
3. Sulfuric Acid Storage Tank
4. Fuel Oil Main Storage Tank
5. Fire Pump Fuel Oil Tank
6. GTG Diesel Starter Fuel Oil Tank (3)
7. STG Hydraulic Oil Tank
8. Mineral Oil Transformer (6)
9. Water Treatment Chemical Addition Station (2)
10. Maint. Lubricant Storage



LEGEND

● - SAMPLE LOCATION

ATTACHMENT 1

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield, MA B&B Job No. 101.75.13

Altresco Tanker Unloading Station Soil Sampling

Date Analyzed 3-25-92 DATE COLLECTED See Below DATE RECEIVED 3-24-92

LAB ID NO.	DATE SAMPLED	PCB	COMMENTS	QC RESULTS
Altr-TUS-C1	3-24-92	2.3	soil	A
A)Reagent Blank 2		<1.		
Reference Sample 2		3.3/3.3 = 100%		
Matrix Spike OP-1-LD-C1		3.0/3.3 = 91%		
Matrix Spike Duplicate		3.0/3.3 = 91%		
Precision		3.0 vs. 3.0 RPD = 0%		

Comments:

Certification No.: NY034

Units: mg/kg(ppm) dry weight

Authorized:

Date: April 1, 1992

OBG Laboratories, Inc., *an O'Brien & Gere Limited Company*
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-13 - Altresco Cathodic Protection Excavation (A)

PRELIMINARY

BLASLAND & BOUCK ENGINEERS P.C.
(REQUEST FOR SAMPLING)

To: Files

Date: 10-07-92

To: Bruce Eulian

File No: 101.75.13

Re: Altresco Cathodic Protection
Excavation Sampling (Well #4)

INITIATOR: Jackie Knox (GE)

DATE: 10-05-92

BLDG. LOCATION: Altresco

CONTACT PERSON: Jackie Knox (GE)

EXT: 3306

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine the proper disposal method for the soil that was generated during an excavation for the Cathodic Protection at Altresco.

NOTES:The following sampling program was implemented at the request of Jackie Knox (GE):

1.) Soil from excavation for the Cathodic Protection at Altresco is to be sampled for PCB's using method 8080.

2.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

3.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be sampled for VOC's using Method 8240 as described in the document entitled "Protocals for the Management of Excavated Activities", dated April 1990.

4.) GE requests the samples to be analyzed at OBG Laboratories in Pittsfield, Mass.

hme

PRELIMINARY

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

DELIVERED TO GRANT BOWMAN (GE) 10-23-92

To: Files
From: Bruce Eulian
Re: Altresco Cathodic Protection
Excavation Sampling (Well #4)

Date: 4-29-92
File No: 101-75-13
cc: Grant Bowman (GE)
Jackie Knox (GE)
Robert Rhoades (B & B)

13-2

The following is a summary of samples (Table 1) collected from soil generated during the excavation for the Cathodic Protection at Altresco. Approximately 43.3 cu yds of soil were generated during the excavation. At the request of Jackie Knox (GE) 15 discrete-grab samples were collected and analyzed discretely for PCB's using Method 8080. All soil samples were screened with a calibrated PID meter and found to be less than 10 PPM, therefore the soil did not have to be analyzed for VOC's using Method 8240 as described in the document entitled "Protocals For The Management Of Excavated Activites", dated April 1990.

Drawings showing the site location (Figure 1), and the sample locations (Figure 2) have been attached. A preliminnary analytical report provided by OBG Laboratories (Attachment 1) has also been included. In addition, a calibration form (Attachment 2), and the soil screening results have also been provided (Attachment 3).

rfh

PRELIMINARY

Altresco Cathodic Protection
Excavation Sampling (Well #4)
101.75.13

13-3

Table 1

LAB ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
ALT-CAT-C1	10-05-92	3.0	1	SOIL	DISCRETE-GRAB	0"-12"	2
ALT-CAT-C2	10-05-92	3.1	2	SOIL	DISCRETE-GRAB	12"-24"	2
ALT-CAT-C3	10-05-92	30.0	3	SOIL	DISCRETE-GRAB	24"-36"	2
ALT-CAT-C4	10-05-92	2.8	4	SOIL	DISCRETE-GRAB	0"-12"	2
ALT-CAT-C5	10-05-92	4.4	5	SOIL	DISCRETE-GRAB	12"-24"	2
ALT-CAT-C6	10-05-92	15.0	6	SOIL	DISCRETE-GRAB	24"-36"	2
ALT-CAT-C7	10-05-92	7.9	7	SOIL	DISCRETE-GRAB	0"-12"	2
ALT-CAT-C8	10-05-92	7.7	8	SOIL	DISCRETE-GRAB	12"-24"	2
ALT-CAT-C9	10-05-92	5.9	9	SOIL	DISCRETE-GRAB	24"-36"	2
ALT-CAT-C10	10-05-92	5.2	10	SOIL	DISCRETE-GRAB	0"-12"	2
ALT-CAT-C11	10-05-92	7.3	11	SOIL	DISCRETE-GRAB	12"-24"	2
ALT-CAT-C12	10-05-92	3.8	12	SOIL	DISCRETE-GRAB	24"-36"	2
ALT-CAT-C13	10-05-92	5.9	13	SOIL	DISCRETE-GRAB	0"-12"	2
ALT-CAT-C14	10-05-92	5.0	14	SOIL	DISCRETE-GRAB	12"-24"	2
ALT-CAT-C15	10-05-92	4.5	15	SOIL	DISCRETE-GRAB	24"-36"	2

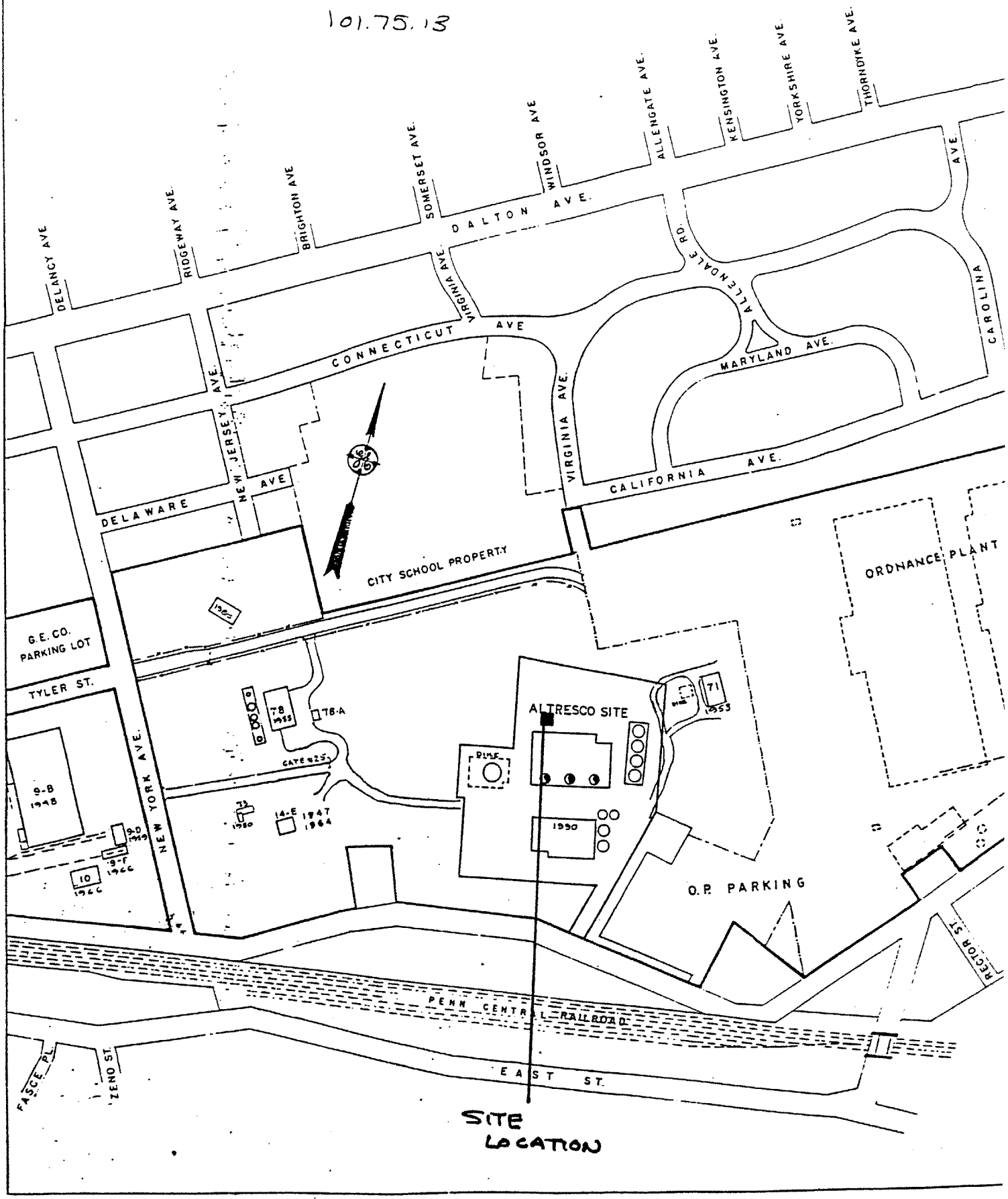
hme

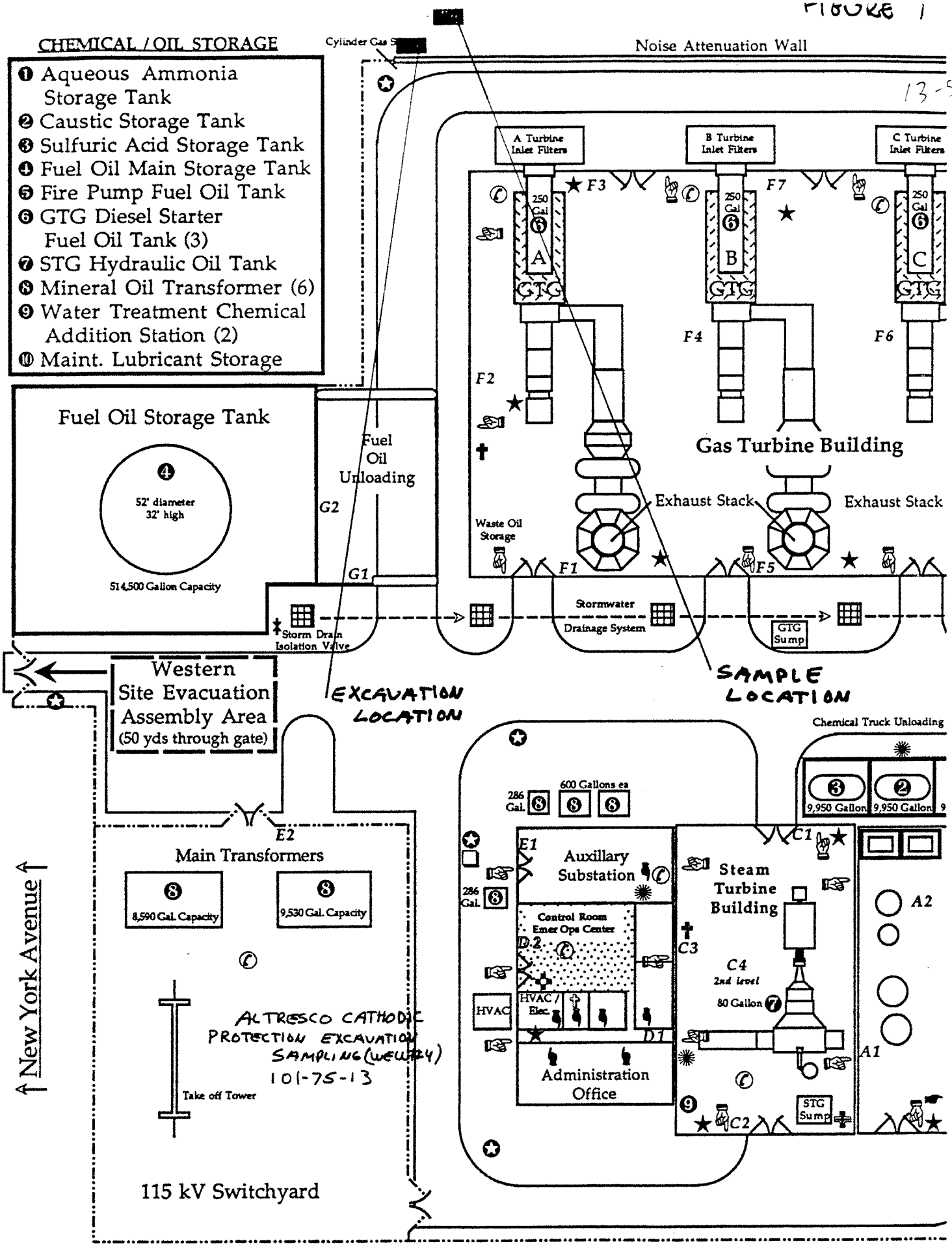
FIGURE 1

13-4

ALTRESCO CATHODIC PROTECTION EXCAVATION SAMPLING (WELL #4)

101.75.13



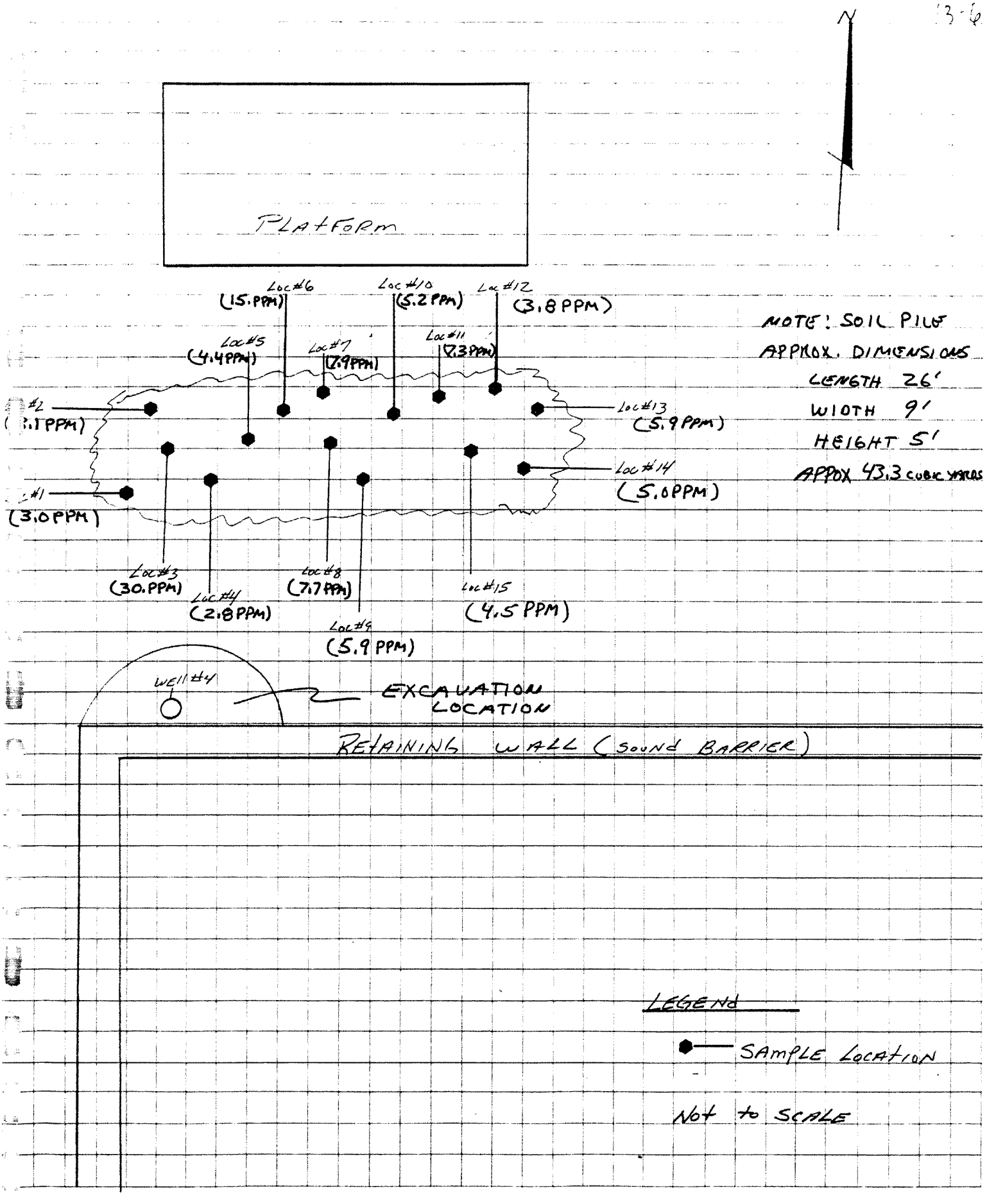

CHEMICAL / OIL STORAGE
❶ Aqueous Ammonia Storage Tank
❷ Caustic Storage Tank
❸ Sulfuric Acid Storage Tank
❹ Fuel Oil Main Storage Tank
❺ Fire Pump Fuel Oil Tank
❻ GTG Diesel Starter Fuel Oil Tank (3)
❼ STG Hydraulic Oil Tank
❽ Mineral Oil Transformer (6)
❾ Water Treatment Chemical Addition Station (2)
❿ Maint. Lubricant Storage
Noise Attenuation Wall
A Turbine Inlet Filters
B Turbine Inlet Filters
C Turbine Inlet Filters
250 Gal
Gas Turbine Building
Exhaust Stack
Exhaust Stack
Waste Oil Storage
Fuel Oil Storage Tank
52' diameter 32' high
514,500 Gallon Capacity
Fuel Oil Unloading
Storm Drain Isolation Valve
Stormwater Drainage System
GTG Sump
Western Site Evacuation Assembly Area (50 yds through gate)
EXCAVATION LOCATION
SAMPLE LOCATION
Chemical Truck Unloading
9,950 Gallon
9,950 Gallon
286 Gal.
600 Gallons ea
Auxillary Substation
Steam Turbine Building
Control Room Emer Ops Center
HVAC
HVAC / Elec.
Administration Office
80 Gallon
STG Sump
Main Transformers
8,590 Gal. Capacity
9,530 Gal. Capacity
Take off Tower
ALTRESCO CATHODIC PROTECTION EXCAVATION SAMPLING (WELL #4)
101-75-13
115 kV Switchyard
New York Avenue

BLASLAND, BOUCK & LEE

FIGURE 2

JECT	PROJ. NO.	BY	DATE	SHEET
ULTRESCO Cathodic Protection Excavation Sampling (well #4)	101-75-13	RH	10-7-92	1 OF 1

13-6



ATTACHMENT 1

OBG LABORATORIES, INC.

4095

RECEIVED OCT 7 1992

Laboratory Report

13-8

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101-75-13

Altresco Cathodic Protection Excavation

Date Analyzed 10/6→10/7/92 DATE COLLECTED See Below DATE RECEIVED 10/5/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
Alt-Cat-C1	10/6/92	10/5/92	2.8	92	3.0	501	A
-C2			2.8	91	3.1		
-C3			28	92	30		
-C4			2.7	94	2.8		
-C5			4.0	91	4.4		
-C6			14	91	15		
-C7			7.3	92	7.9		
-C8			7.0	91	7.7		
-C9			5.4	92	5.9		
-C10			4.8	93	5.2		
-C11			6.6	90	7.3		
-C12			3.5	92	3.8		
-C13			5.4	91	5.9		
-C14			4.6	92	5.0		
-C15			4.1	92	4.5		

A) Reagent Blank 100692-1: <1

Reference Sample 100692-1: 2.7/3.3 = 82%.

Matrix Spike 31-LE-C3: 2.4/3.3 = 74%.

Matrix Spike Duplicate: 2.4/3.3 = 74%.

Precision: 2.4 vs 2.4 = 0% RPD

Comments:

Certification No.:

Units: mg/Kg = ppm

Authorized:

Date:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME
101-7513	AltResco Cathodic Protection Excavation

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB Soil	SAMPLE TYPE SOLID	WIPE	WATER	NO. OF CONTAINERS	PCBs thru Method 8080					REMARKS
ALT-CAT-C1		10-5-92	1140		X				1	X					
ALT CAT C2		10-5-92	1150		X				1	X					
ALT CAT C3		10-5-92	1200		X				1	X					
ALT CAT C4		10-5-92	1210		X				1	X					
ALT CAT C5		10-5-92	1220		X				1	X					
ALT CAT C6		10-5-92	1230		X				1	X					
ALT CAT C7		10-5-92	1240		X				1	X					
ALT CAT C8		10-5-92	1250		X				1	X					
ALT CAT C9		10-5-92	1300		X				1	X					
ALT CAT C10		10-5-92	1310		X				1	X					
ALT CAT C11		10-5-92	1320		X				1	X					
[illegible]		10-5-92	1330		X				1	X					
[illegible]		10-5-92	1340		X				1	X					
[illegible]		10-5-92	1350		X				1	X					
[illegible]		10-5-92	1400		X				1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[illegible]	10-5-92 1140 thru 1400		[illegible]	10-5-92 1445	
RELINQUISHED BY: (SIGNATURE)	**DATE/TIME**	**RECEIVED BY: (SIGNATURE)**	**RELINQUISHED BY: (SIGNATURE)**	**DATE/TIME**	**RECEIVED BY: (SIGNATURE)**
RELINQUISHED BY: (SIGNATURE)	**DATE/TIME**	**RECEIVED FOR LABORATORY BY: (SIGNATURE)**	**DATE/TIME**	**REMARKS**	
		Diane Lewellin	10/5/92 1445	Sent to Pittsfield OBG	

135

ATTACHMENT 2

#1

13-11

HNU CALIBRATION

DATE: 10-5-92
OPERATOR: R Huther

HNU SERIAL NO: Z70107
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 57 ppm

INITIAL READING: 9.8 span setting @ 57 ppm

ADJUSTED SETTING: _____ span setting @ _____ ppm

NOTES:

_____

_____

_____

_____

_____

12

13-2

HNU CALIBRATION

DATE: 10-5-92
OPERATOR: R Hutter

HNU SERIAL NO: 2761707
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 57 ppm

INITIAL READING: 9.8 span setting @ 57 ppm

ADJUSTED SETTING: _____ span setting @ _____ ppm

NOTES:

_____

_____

_____

_____

_____

ATTACHMENT 3

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

DATE: 10-5-92
OPERATOR: R Hutter

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
ALT-CAT-C1	0.1	0.1	0.1
ALT-CAT-C2	0.1	0.1	0.1
ALT-CAT-C3	0.1	0.1	0.1
ALT-CAT-C4	0.0	0.0	0.0
ALT-CAT-C5	0.0	0.0	0.0
ALT-CAT-C6	0.1	0.1	0.1
ALT-CAT-C7	0.0	0.0	0.0
ALT-CAT-C8	0.1	0.1	0.1
ALT-CAT-C9	0.0	0.0	0.0
ALT-CAT-C10	0.0	0.0	0.0
ALT-CAT-C11	0.0	0.0	0.0
ALT-CAT-C12	0.0	0.0	0.0
ALT-CAT-C13	0.0	0.0	0.0
ALT-CAT-C14	0.0	0.0	0.0
ALT-CAT-C15	0.0	0.0	0.0

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-14 - Altresco Cathodic Protection Excavation (B)

PRELIMINARY

14-1

BLASLAND & BOUCK ENGINEERS, P.C.
(REQUEST FOR SAMPLING)

TO: Files

DATE: 10-21-92

FROM: Bruce Eulian

FILE NO: 101.75.13

RE: Altresco Cathodic Protection
Excavation Sampling (Locations A, B & C)

INITIATOR: Jackie Knox (GE)

DATE: 10-20-92

BLDG. LOCATION: Altresco

CONTACT PERSON: Jackie Knox (GE)

EXT: 3306

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples so GE can determine the proper disposal method for the soil that was generated during an excavation for the Cathodic Protection at Altresco.

NOTES: The following sampling program was implemented as the request of Jackie Knox (GE):

1.) Soil from the excavation for the Cathodic Protection at Altresco is to be sampled for PCB's Method 8080.

2.) Soil samples are to be screened for Volatile Organic Compounds with a calibrated PID meter.

3.) If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be sampled for VOC's using Method 8240 as described in the document entitled "Protocols For The Management Of Excavation Activities", dated April 1990.

4.) GE requests the samples to be analyzed at OBG Laboratories in Pittsfield, MA.

jjh

PRELIMINARY

DELIVERED TO GRANT BOWMAN (GE) 11-4-92

14-2

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

): Files
rom: Bruce Eulian
Re: Altresco Cathodic Protection
Excavation Sampling (Locations A, B & C)

Date: 10-21-92
File No: 101.75.13
cc: Grant Bowman (GE)
Jackie Knox (GE
Robert Rhoades (B&B)

The following is a summary of samples (Table 1) collected from soil generated during the excavation for the Cathodic Protection at Altresco. Approximately 7.92 cu yds of soil was generated at (3) locations during the excavation.

Location A: Pile 1 - approximately .44 cu yds - 1 discrete grab sample
Pile 2 - approximately .88 cu yds - 2 discrete grab samples
Pile 3 - approximately 3.3 cu yds - 3 discrete grab samples

Location B: Pile 4 - approximately .52 cu yds - 1 discrete grab sample

Location C: Pile 5 - approximately 1.3 cu yds - 3 discrete grab samples

At the request of Jackie Knox (GE) 10 discrete-grab samples of soil were collected and analyzed discretely for PCB's sing Method 8080. All soils were screened with a calibrated PID meter and found to be <10 PPM, therefore the soil did not ave to be analyzed for VOC's using Method 8240 as described in the document entitled "Protocols For The Management Of Excavation Activities", dated April 1990.

Drawings showing the site location (Figure 1), and the sample locations (Figure 2) have been included. A preliminary nalytical report provided by OBG Laboratories (Attachment 1) has also been included. In addition, a calibration form (Attachment 2), and the soil screening results have also been provided (Attachment 3).

jjh

PRELIMINARY

Altresco Cathodic Protection
Excavation Sampling (Locations A, B & C)

101.75.13

14-3

Table 1

PCB SAMPLING RESULTS METHOD 8080

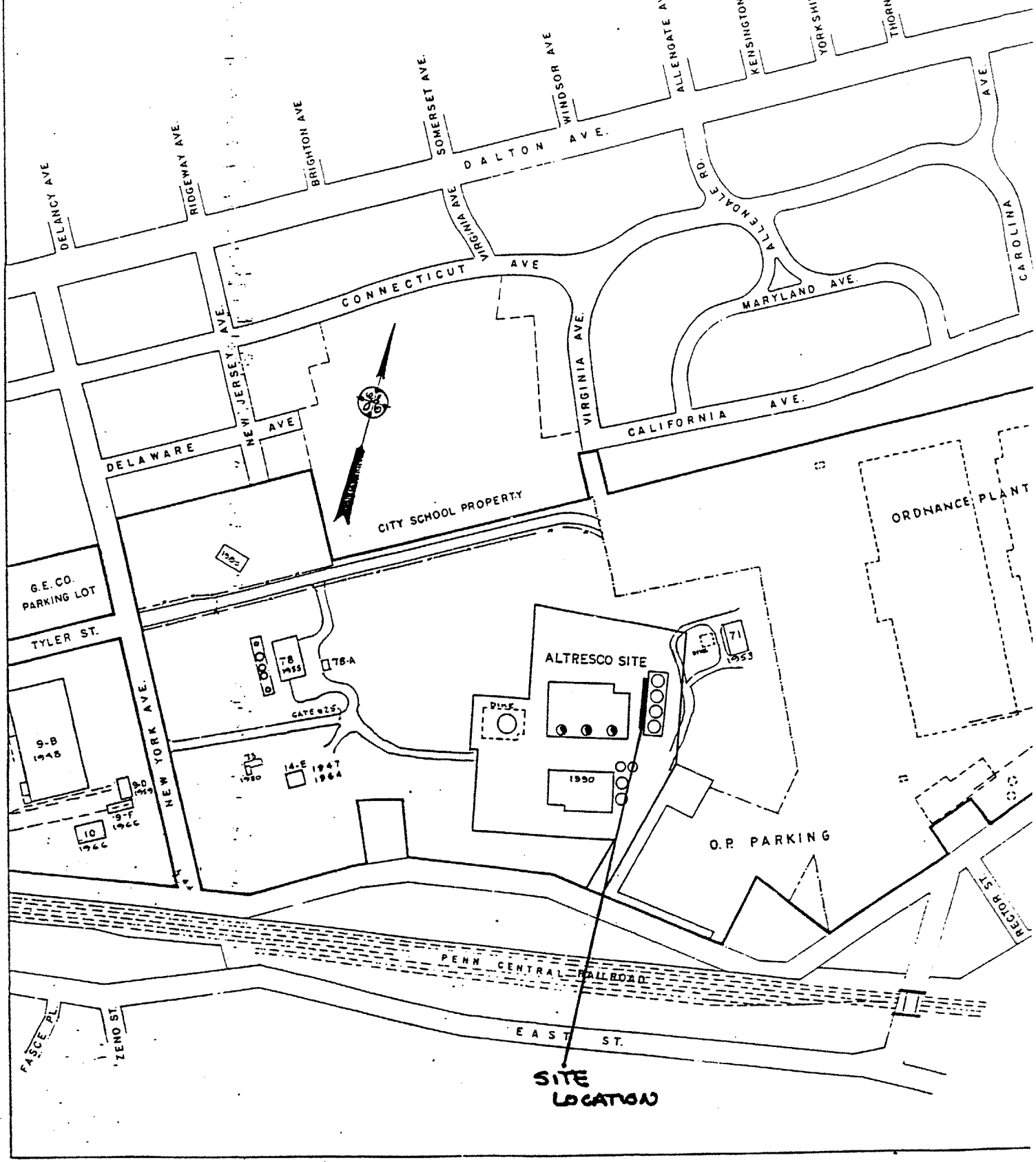
LAB ID	DATE SAMPLED	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
LOCATION A							
PILE # 1							
ALT-CAT-C16	10-20-92	4.9	A1	SOIL	DISCRETE-GRAB	0-1'	2
PILE # 2							
ALT-CAT-C17	10-20-92	1,4	A2	SOIL	DISCRETE-GRAB	0-1'	2
ALT-CAT-C18	10-20-92	<1.0	A3	SOIL	DISCRETE-GRAB	0-1'	2
PILE # 3							
ALT-CAT-C19	10-20-92	24,0	A4	SOIL	DISCRETE-GRAB	0-1'	2
ALT-CAT-C20	10-20-92	16.0	A5	SOIL	DISCRETE-GRAB	1-2'	2
ALT-CAT-C21	10-20-92	25.0	A6	SOIL	DISCRETE-GRAB	0-1'	2
LOCATION B							
PILE # 4							
ALT-CAT-C22	10-20-92	4.1	B1	SOIL	DISCRETE-GRAB	0-1'	2
LOCATION C							
PILE # 5							
ALT-CAT-C23	10-20-92	2.3	C1	SOIL	DISCRETE-GRAB	0-1'	2
ALT-CAT-C24	10-20-92	2.0	C2	SOIL	DISCRETE-GRAB	0-1'	2
ALT-CAT-C25	10-20-92	<1.0	C3	SOIL	DISCRETE-GRAB	0-1'	2

FIGURE 1

ALTRESCO CATHODIC PROTECTION EXCAVATION SAMPLING (LOCATIONS A, B+C)

(101.75, 13)

14-4

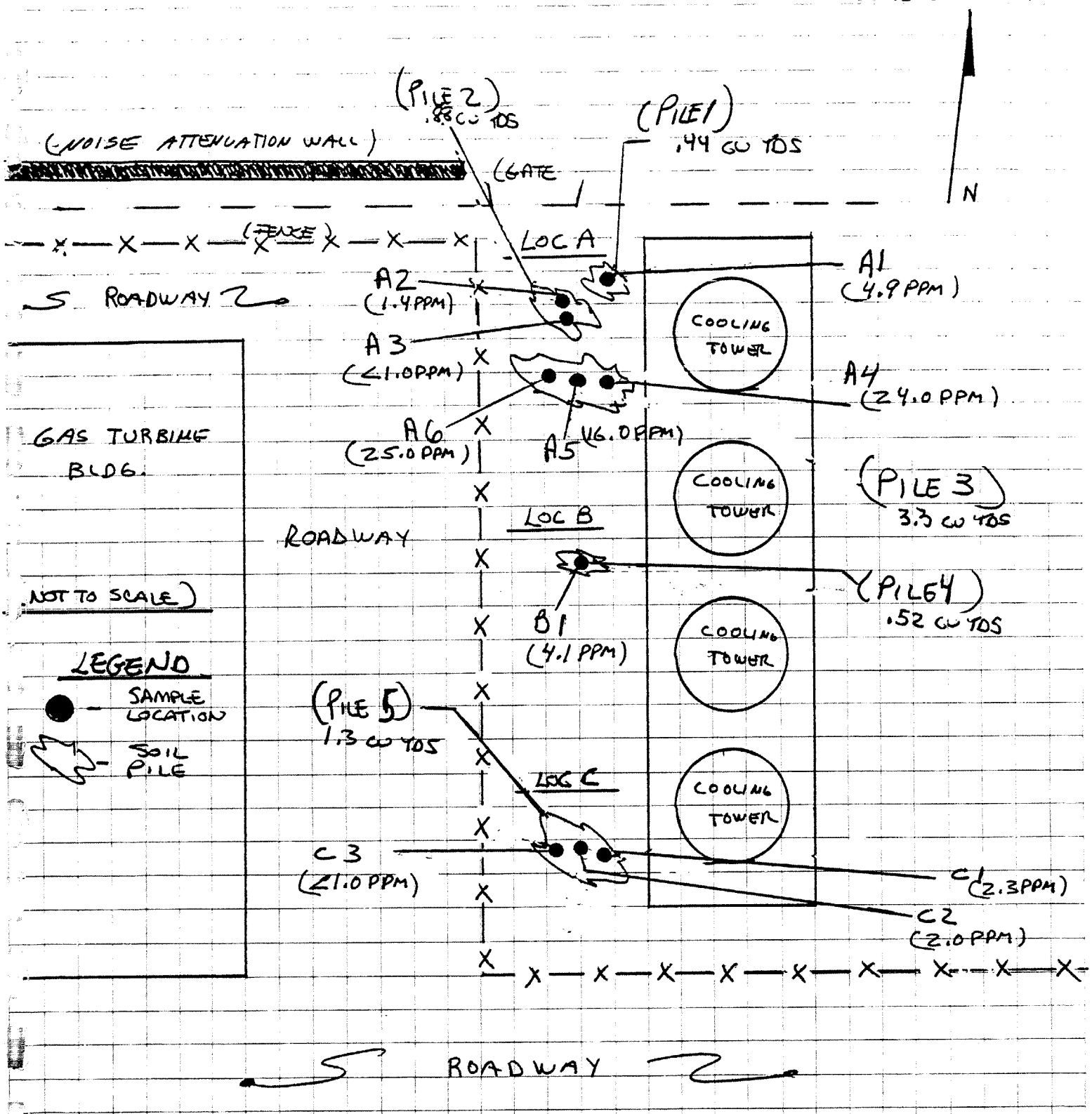


BLASLAND, BOUCK & LEE

PROJECT	PROJ. NO.	BY	DATE	SHEET
ALTRESCO CATHODIC PROTECTION EXCAVATION SAMPLING (LOCATIONS A, B+C)	101.75.13	JJH	10-20-92	1 of 1

FIGURE 2

14-5



ATTACHMENT 1

4116

PRELIMINARY

OCT 2 2 1992

OBG LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield Job No. 101.75.13

Altresco Cathodic Protection Excavation Sampling (Locations A, B, & C)

Date Analyzed 10/21→10/22/92 DATE COLLECTED See Below DATE RECEIVED 10/20/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
ALT-CAT-C16	10/21/92	10/20/92	4.4	89	4.9	soil	A
ALT-CAT-C17			1.2	86	1.4		
ALT-CAT-C18			<1 (.799)	84	<1		
ALT-CAT-C19			22	91	24		
ALT-CAT-C20			15	92	16		
ALT-CAT-C21			23	91	25		
ALT-CAT-C22			3.8	93	4.1		
ALT-CAT-C23			2.2	94	2.3		
ALT-CAT-C24			1.8	92	2.0		
ALT-CAT-C25			<1 (.83)	90	<1		
A) Reagent Blank 102192-1:					<1		
Reference Sample 102192-1:					2.1/3 = 71%		
Matrix Spike OP-1-GM-CH:					2.5/3.3 = 76%		
Matrix Spike Duplicate:					2.5/3.3 = 76%		
Precision:				2.5 vs 2.5 = 0% RPD			

Comments:

Certification No.:

Units: mg/Kg = ppm

Authorized:

Date:

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75,13

PROJECT NAME: ALTRESCO CATHODIC PROTECTION EXCAVATION SAMPLING - (LOCATIONS A, B + C)

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID SOIL	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB's METHOD 8080					REMARKS
ALT-CAT-C16		10/20/92	1030		X	X				X					
ALT-CAT-C17		10/20/92	1040		X	X				X					
ALT-CAT-C18		10/20/92	1050		X	X				X					
ALT-CAT-C19		10/20/92	1100		X	X				X					
ALT-CAT-C20		10/20/92	1110		X	X				X					
ALT-CAT-C21		10/20/92	1120		X	X				X					
ALT-CAT-C22		10/20/92	1130		X	X				X					
ALT-CAT-C23		10/20/92	1140		X	X				X					
ALT-CAT-C24		10/20/92	1150		X	X				X					
ALT-CAT-C25		10/20/92	1200		X	X				X					

SAMPLED BY: (SIGNATURE)	DATE/TIME: 10-20-92, 1030 to 1200	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE) — DATE/TIME: 10-20-92, 1630 — RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE) — DATE/TIME — RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) Diane Lane Cox — DATE/TIME: 10/20/92, 1630	REMARKS: TO PITTSTON ORS

ATTACHMENT 2

HNU CALIBRATION

ALTRESCO CATHODIC PROTECTION
EXCAVATION SAMPLING (LOCATIONS A, B+C)
101.75,13

DATE: 10-20-92
OPERATOR: R HUTTER

HNU SERIAL NO: A70129
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 57 ppm

INITIAL READING: 9.8 span setting @ 57 ppm

ADJUSTED SETTING: NONE span setting @ NONE ppm

NOTES:

NO ADJUSTMENT WAS NEEDED WHEN UNIT WAS CALIBRATED

ATTACHMENT 3

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

ALTRESCO CATHODIC PROTECTION
EXCAVATION SAMPLING (LOCATIONS A, B + C)
101.75.13

DATE: 10-20-92
OPERATOR: Jim HASSETT
CALIBRATION DATE: 10-20-92
CALIBRATED BY: RUSS HUTHER

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
A1	0.0	0.0	0.0
A2	0.0	0.0	0.0
A3	0.0	0.0	0.0
A4	0.0	0.0	0.0
A5	0.0	0.0	0.0
A6	0.0	0.0	0.0
B1	0.0	0.0	0.0
C1	0.0	0.0	0.0
C2	0.0	0.0	0.0
C3	0.0	0.0	0.0

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-15 - Concrete Slab Installation

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

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: Altresco Concrete Slab Installation
Soil Sampling

DATE: September 4, 1996
FILE NO.: 201.70.02

INITIATOR: Aimee Cole (GE)

DATE: 8-13-96

LOCATION: Altresco Plant

CONTACT PERSON: Aimee Cole (GE) **EXT:** 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine the proper disposal method of the soil generated during the excavation for a concrete slab installation at the Altresco Plant (north of the Steam Turbine Building).

NOTES: See attached letter from Aimee Cole (GE) to Bruce Eulian (BBL) dated August 13, 1996.

1.) Five (5) discrete-grab samples are to be collected and analyzed for PCBs.

2.) The samples are to be screened for Volatile Organic Compounds (VOCs) with a calibrated Photoionization Detector (PID).

3.) If any of the PID readings are ≥ 10, a field-composite sample is to be collected for every (20) cubic yards of soil and analyzed for VOCs and 1,2,4 Trichlorobenzene.

4.) GE requests that the PCB analysis be performed by the Pittsfield GE Laboratory and if necessary, the VOC and 1,2,4 Trichlorobenzene analyses be performed by the Syracuse, NY OBG Laboratory.

jjh
September 4, 1996
finsum96\7002csss.cov

S A M P L I N G R E Q U E S T

DATE: August 13, 1996

TO: B. Eulian - BBL

FROM: A. Cole - GEC AC

CC: J.Nicholson

RE: ALTRESCO - CONCRETE SLAB INSTALLATION

Altresco is beginning an excavation today (8/13)to pour a concrete slab with footings as part of an equipment installation. They will be generating up to 5 yards of soil which they intend to backfill after the installation of sonotubes.

Please take PCB samples and PID readings on the excavated soil pile. The PCB samples may go to the GE lab for analysis (method 8080). They expect to be finished Thursday or Friday but will contact us when complete with the initial excavation.

Your project number is 201.70.02 - Hill 78 Miscellaneous.

DELIVERED TO JEFF RUEBESAM (GE) 9-10-96

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

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: Altresco Concrete Slab Installation
Soil Sampling

DATE: September 4, 1996
FILE NO.: 201.70.02
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted 8-16-96 on the soil that was generated during the excavation for a concrete slab installation at the Altresco Plant (north of the Steam Turbine Building). The soil was found placed in piles (approximate) as follows: **Pile #1** - 4' x 5' x 2'= 1.5 cubic yards, **Pile #2** - 10' x 3' x 2'=2.2 cubic yards, **Pile #3** - 13' x 3' x 2'= 2.9 cubic yards, **Pile #4** - 6' x 3' x 2'=1.3 cubic yards and **Pile #5** - 2' x 2' x 1'=0.2 cubic yards. There was a total of 8.1 cubic yards associated with this sampling program.

At the request of Aimee Cole (GE) the following sampling program was implemented:

- Five (5) discrete-grab samples of soil were collected and analyzed for PCBs.

Note:

The samples were screened with a calibrated Photoionization Detector (PID) and were found to be <10, therefore, no Volatile Organic Compounds (VOCs) or 1,2,4 Trichlorobenzene analyses were performed.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). Analytical results provided by the Pittsfield GE Laboratory (Attachment 1), a PID calibration form (Attachment 2), a PID head space screening results sheet (Attachment 3) and a copy of the chain of custody that accompanied the samples (Attachment 4) are also included.

jjh
September 4, 1996
finsum96\7002csss.sum

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

Altresco Concrete Slab Installation
Soil Sampling

(201.70.02)

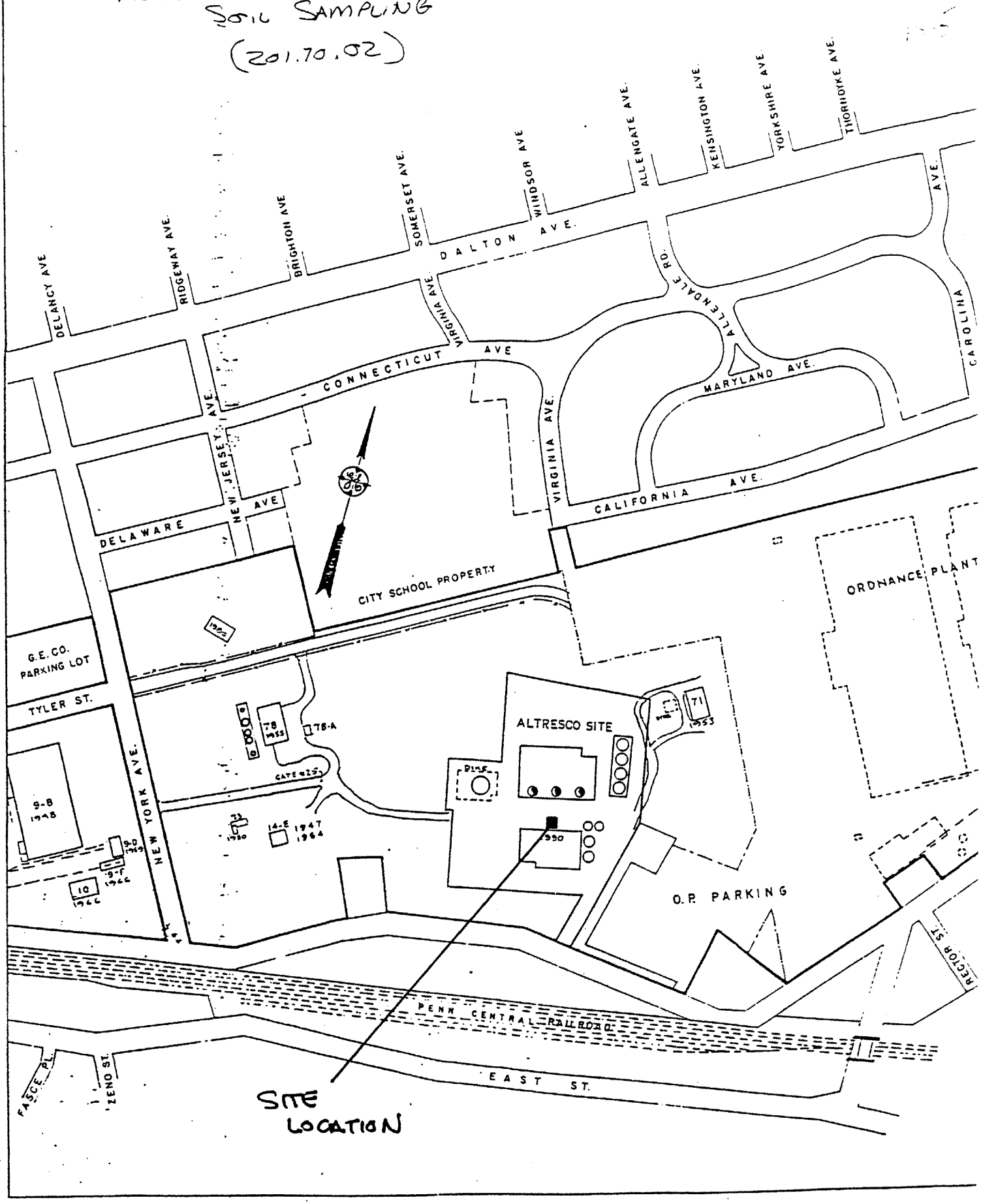
Table 1

LAB ID	SAMPLE DATE	PCBs PPM	SAMPLE DEPTH	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SEE FIGURE
ALT-CSSS-1	8-16-96	5.	(0 - 1')	1	SOIL	DISCRETE-GRAB	2
ALT-CSSS-2	8-16-96	3.	(1 - 2')	2	SOIL	DISCRETE-GRAB	2
ALT-CSSS-3	8-16-96	4.	(0 - 1')	3	SOIL	DISCRETE-GRAB	2
ALT-CSSS-4	8-16-96	<1.	(1 - 2')	4	SOIL	DISCRETE-GRAB	2
ALT-CSSS-5	8-16-96	5.	(0 - 1')	5	SOIL	DISCRETE-GRAB	2

jjh
September 4, 1996
finsum96/7002csss.tbl

FIGURE 1

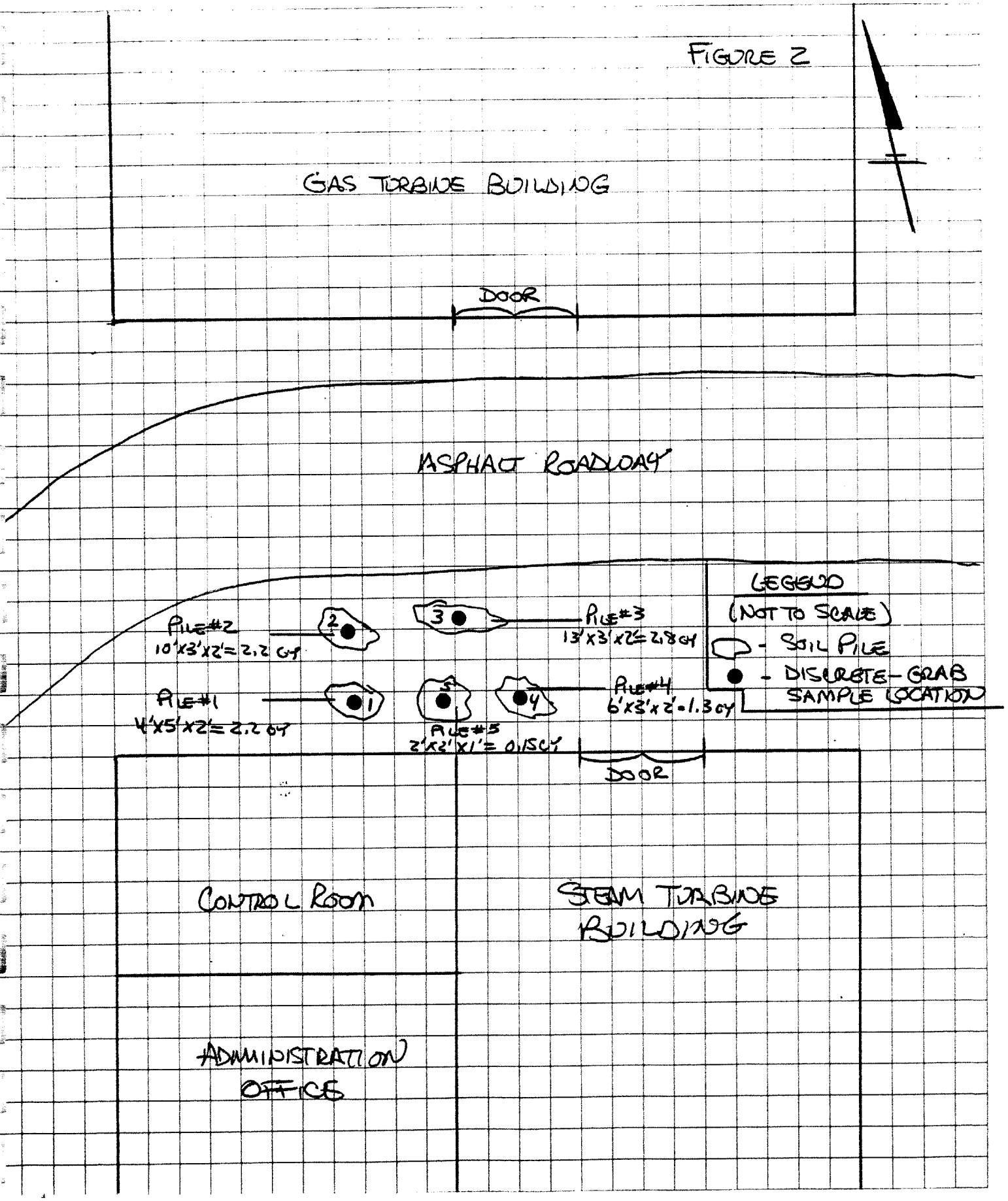
ALTRESCO CONCRETE SLAB INSTALLATION
SOIL SAMPLING
(201.70.02)



BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

SUBJECT	PROJ. NO.	BY	DATE	SHEET
ALTRESCO CONCRETE SLAB INSTALLATION SOIL SAMPLING	201.70.02	JJH	8/16/96	1/1

FIGURE 2



Attachment 1

GENERAL ELECTRIC

ENVIRONMENTAL LABOROTORY

Pittsfield, MA

Altresco Concrete Slab Installation Soil Sampling — 9/3/96

Project No. 201.70.02

Sample Number	Sample Date	Sample Type	PCB Content (ug/g)	Comments
ALT-CSSS-1	8/16/96	soil	5	
ALT-CSSS-1 spike	8/16/96	soil	102.50%	
ALT-CSSS-1 spike dup	8/16/96	soil	115.40%	
ALT-CSSS-2	8/16/96	soil	3	
ALT-CSSS-2 dup	8/16/96	soil	3	
ALT-CSSS-3	8/16/96	soil	4	
ALT-CSSS-4	8/16/96	soil	<1	
ALT-CSSS-5	8/16/96	soil	5	
1242 Reference Standard LA50944			115%	98.40%
1260 Reference Standard LA51703			116.80%	104.60%

Comments: Analysis - GC/ECD packed column
1 - Elevated reporting limit due to matrix interferences.
2 - Estimate only, result above upper calibration limit.

Report by JS Nicholson

Distribution: WA Fessler, A Cole, File — B Fuller, J Bujak

WP-6374

Attachment 2

BBL
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engineers & scientists

PHOTOIONIZATION DETECTOR (PID) - MicroTIP™ HL-2000 CALIBRATION FORM

Altresco Concrete Slab Installation
Soil Sampling

(201.70.02)

Date: 8-16-96

		Initials
1.)	Connect the regulator to the span gas cylinder.	JJH
2.)	Open the valve on the gas bag by turning the valve stem fully counterclockwise.	JJH
3.)	Attach the nut to the regulator.	JJH
4.)	Turn the regulator knob counterclockwise about half a turn.	JJH
5.)	Fill the gas bag about half full and then close the regulator fully clockwise.	JJH
6.)	Disconnect the bag from the adapter and empty it. Flush bag two (2) times with span gas and then fill it.	JJH
7.)	Close the gas bag by turning the valve clockwise.	JJH
8.)	Press **CAL** and enter the desired response factor: **1.00**	JJH
9.)	**Connect zero gas then press ENTER** will display. Expose meter to ambient air and press **ENTER**	JJH
10.)	Meter displays **Calibrating now, please wait...**, then asks for span gas concentration, enter **100.00** and then press **ENTER.**	JJH
11.)	Connect span gas and then press **ENTER.**	JJH
12.)	Meter displays **Calibrating now, please wait...**	JJH
13.)	Meter displays **100 ppm** and then goes to ready mode, unit is calibrated.	JJH

jjh
August 16, 1996
finsum96\7002csss.cal

Attachment 3

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

15-12

PHOTOIONIZATION DETECTOR (PID) - MicroTIP™ HL-2000 HEAD SPACE SCREENING RESULT SHEET

Altresco Concrete Slab Installation
Soil Sampling

(201.70.02)

Date: 8-16-96
Operator: Jim Hassett

Sample Location	Reading Sample A	Reading Sample B	Average of Samples A & B
1	6.6	3.2	4.90
2	2.3	2.1	2.20
3	2.1	2.5	2.30
4	2.2	2.0	2.10
5	2.0	2.0	2.00

jjh
August 19, 1996
finsum96\7002csss.hsp

Attachment 4

BBL
BARTON, BOUCK & LEE, INC.
engineers & scientists
6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 261.70.02

PROJECT NAME: ATHENS COLLEGE SLAB INSTALLATION SOIL SAMPLING

LAB ID	CUSTODY TAPE NUMBERED	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID SOIL	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCBs (METHOD 8082)						REMARKS
NJ-CSSS-1		8/16/96	0840		X	X			1	X						
NJ-CSSS-2			0850		X	X			1	X						
NJ-CSSS-3			0900		X	X			1	X						
NJ-CSSS-4			0910		X	X			1	X						
NJ-CSSS-5			0920		X	X			1	X						

SAMPLED BY: (SIGNATURE)	DATE/TIME 8/16/96 0920	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME 8/16/96 1110	RECEIVED BY: (SIGNATURE) 8/16/96 11:10AM
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS: DELIVERED TO PITTSFIELD GE LABORATORY	

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-16 - Water Main Repair

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

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: Altresco Water Main Repair Sampling

DATE: July 9, 1996
FILE NO.: 201.70.02

INITIATOR: Aimee Cole (GE)

DATE: 6-20-96

LOCATION: Altresco Plant

CONTACT PERSON: Aimee Cole (GE) **EXT:** 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine the proper disposal method of the soil generated during the water main repair at the Altresco Plant (north of the Gas Turbine Building).

NOTES: See attached letter from Aimee Cole (GE) to Bruce Eulian (BBL) dated June 20, 1996.

1.) Eight (8) discrete-grab samples are to be collected and analyzed for PCBs.

2.) The samples are to be screened for Volatile Organic Compounds (VOCs) with a calibrated Photoionization Detector (PID).

3.) If any of the PID readings are ≥ 10, a field-composite sample is to be collected for every (20) cubic yards of soil and analyzed for VOCs (Method 8260) and 1,2,4 Trichlorobenzene (Method 8120).

4.) GE requests that the PCB analysis be performed by the Pittsfield GE Laboratory and if necessary, the VOC and 1,2,4 Trichlorobenzene analyses be performed by the Syracuse, NY OBG Laboratory.

jjh
July 9, 1996
finsum96\7002wmrs.cov

16-2

S A M P L I N G R E Q U E S T

DATE: June 20, 1996

TO: B. Eulian - BBL

FROM: A. Cole - GEC AC

RE: Altresco water main repair

CC: J. Nicholson

In order to repair a broken water main associated with the fire control system at Altresco, they will be excavating this afternoon, Thursday June 20, 1996. Maxymillian is the contractor. They should generate no more than a couple yards of material for PCB and PID sampling. Please take 3 samples for PCB and screen for PID. If the PID is greater than 10, then sample for VOC (method 8260) and 1,2,4 Trichlorobenzene (method 8120.

The PCB samples should go to the GE lab for analysis and should be charged to Hill 78 MCP.

Your project number is 201.70.02. - Hill 78. If the VOCs are necessary, send them to OBG Syracuse.

The contacts at Altresco are Debby Mackey and Tim Egland. Altresco phone is 442-6905

Delivered to
Jeff Ruebesam (GE)
7-9-96

16-9

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

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: Altresco Water Main Repair Sampling

DATE: July 9, 1996
FILE NO.: 201.70.02
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted 6-25 and 6-26-96 on the soil that was generated during the water main repair at the Altresco Plant (north of the Gas Turbine Building). The soil was found placed in piles as follows: **Pile #1** - (from excavation outside building) 10' x 3' x 3'= 3.3 cubic yards, **Pile #2** - (from excavation outside building) 12' x 4' x 4'=7.1 cubic yards, **Pile #3** - (from excavation inside building) 5' x 4' x 4'= 3.0 cubic yards, **Pile #4** - (from excavation inside building) 5' x 4' x 2'=1.5 cubic yards.

At the request of Aimee Cole (GE) the following sampling program was implemented:

- Five (5) discrete-grab samples of soil (from excavation outside building) were collected and analyzed for PCBs.
- Three (3) discrete-grab samples of soil (from excavation inside building) were collected and analyzed for PCBs.

Note:

The samples were screened with a calibrated Photoionization Detector (PID) and were found to be <10, therefore, no Volatile Organic Compounds (VOCs) or 1,2,4 Trichlorobenzene analyses were performed.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). Analytical results provided by the Pittsfield GE Laboratory (Attachment 1), PID calibration forms (Attachment 2), a PID head space screening results sheet (Attachment 3) and a copy of the chains of custody that accompanied the samples (Attachment 4) are also included.

jjh
July 9, 1996
finsum96\7002wmrs.sum

SUBJECT	PROJ. NO.	BY	DATE	SHEET
ALTRESCO WATER MAIN REPAIR SAMPLING	201.70.02	JJH	6-21 to	1 / 16-4

JUNE 21, 1996

1030 JJH, EWB DRIVE TO ALTRESCO - MET DEBBY MACKEY, EXCAVATION NOT COMPLETE, DEBBY SAID SHE WOULD CALL WHEN COMPLETE

1345 TALKED WITH CHET (MTI - EXCAVATION CONTRACTORS) HE SAID EXCAVATION WOULD NOT BE COMPLETED UNTIL EITHER MON 6/24 OR TUE 6/25

400 CHET, AIMEE COLE (GE) AND JJH DISCUSSED WHEN TO SAMPLE EXCAVATED SOIL, IT WAS DECIDED TO WAIT UNTIL EXCAVATION IS COMPLETE - MTI WILL NOTIFY US WHEN IT IS COMPLETE.

JUNE 25, 1996

1010 AIMEE CALLED TO SAY THEY (MTI) HAS COMPLETED EXCAVATION OUTSIDE BUILDING AND WE SHOULD SAMPLE WHAT THEY HAVE. SHE SAID THERE ARE (2) PILES. SHE ALSO SAID WE SHOULD NOT COLLECT MORE THAN (5) SAMPLES AND THESE SHOULD GET PID READINGS - PCBs TO GE PITTSFIELD, IF HITS VOCs + 1,2,4 TRICHLOROBENZENE TO SYRACUSE ORG.

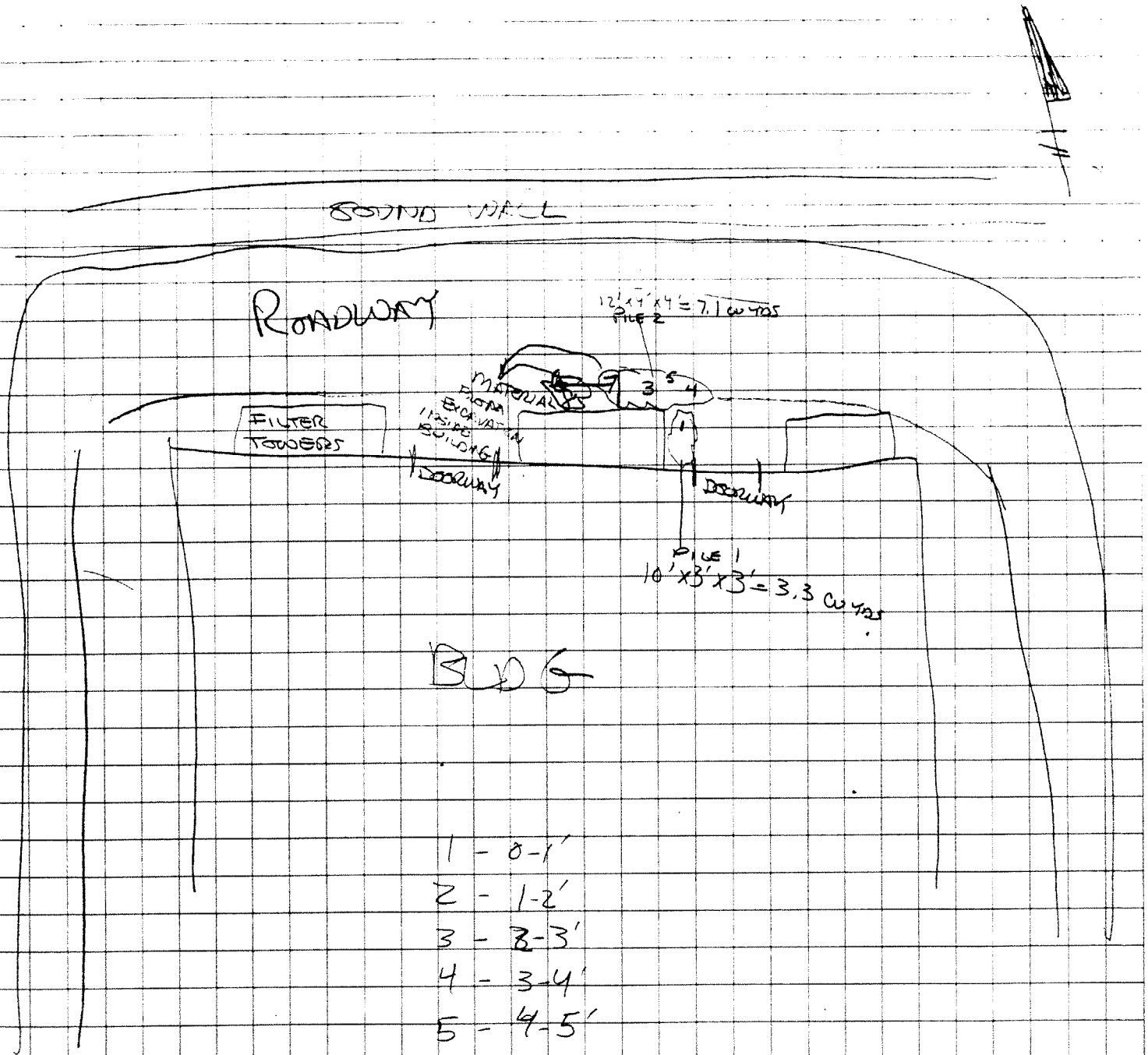
1145 COMPLETED SAMPLING - (5) SAMPLES, DELIVERED TO PITTSFIELD GE LAB

630 CHET INFORMED THAT THEY EXCAVATED INSIDE THE GAS TURBINE BLDG FOR THE SAME BREAK AND THAT WAS COMPLETE - WILL CHECK WITH AIMEE ON 6/26/96

JUNE 26, 1996

0830 TALKED WITH AIMEE ON EXCAVATION - SHE SAID IF 3 YARDS OR LESS WE WOULD INCORPORATE WITH OTHER SAMPLING, IF >3 YARDS WE WILL TAKE ADDITIONAL (3) SAMPLES - WILL INVESTIGATE.

630 UPON INVESTIGATION THERE WAS > 3 YARDS ADDITIONALLY EXCAVATED, COLLECTED (3) MORE SAMPLES - SHOULD COMPLETE JOB



$$\begin{array}{r} 10 \\ \times\ 3 \\ \hline 30 \\ \times\ 3 \\ \hline 27 \overline{)90} \\ \underline{81} \\ 90 \end{array} \qquad 3.3$$

$$\begin{array}{r} 12 \\ \times\ 4 \\ \hline 48 \\ \times\ 4 \\ \hline 27 \overline{)192} \\ \underline{189} \\ 30 \end{array} \qquad 7.1$$

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

Altresco Water Main Repair Sampling

(201.70.02)

Table 1

LAB ID	SAMPLE DATE	PCBs PPM	SAMPLE DEPTH	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SEE FIGURE
ALT-WMRS-1	6-26-96	7.	(0 - 1')	1	SOIL	DISCRETE-GRAB	2
ALT-WMRS-2	6-26-96	7.	(1 - 2')	2	SOIL	DISCRETE-GRAB	2
ALT-WMRS-3	6-26-96	7.	(2 - 3')	3	SOIL	DISCRETE-GRAB	2
ALT-WMRS-4	6-26-96	7.	(3 - 4')	4	SOIL	DISCRETE-GRAB	2
ALT-WMRS-5	6-26-96	7.	(4 - 5')	5	SOIL	DISCRETE-GRAB	2
ALT-WMRS-6	6-27-96	1.	(0 - 1')	6	SOIL	DISCRETE-GRAB	2
ALT-WMRS-7	6-27-96	11.	(1 - 2')	7	SOIL	DISCRETE-GRAB	2
ALT-WMRS-8	6-27-96	1.	(2 - 3')	8	SOIL	DISCRETE-GRAB	2

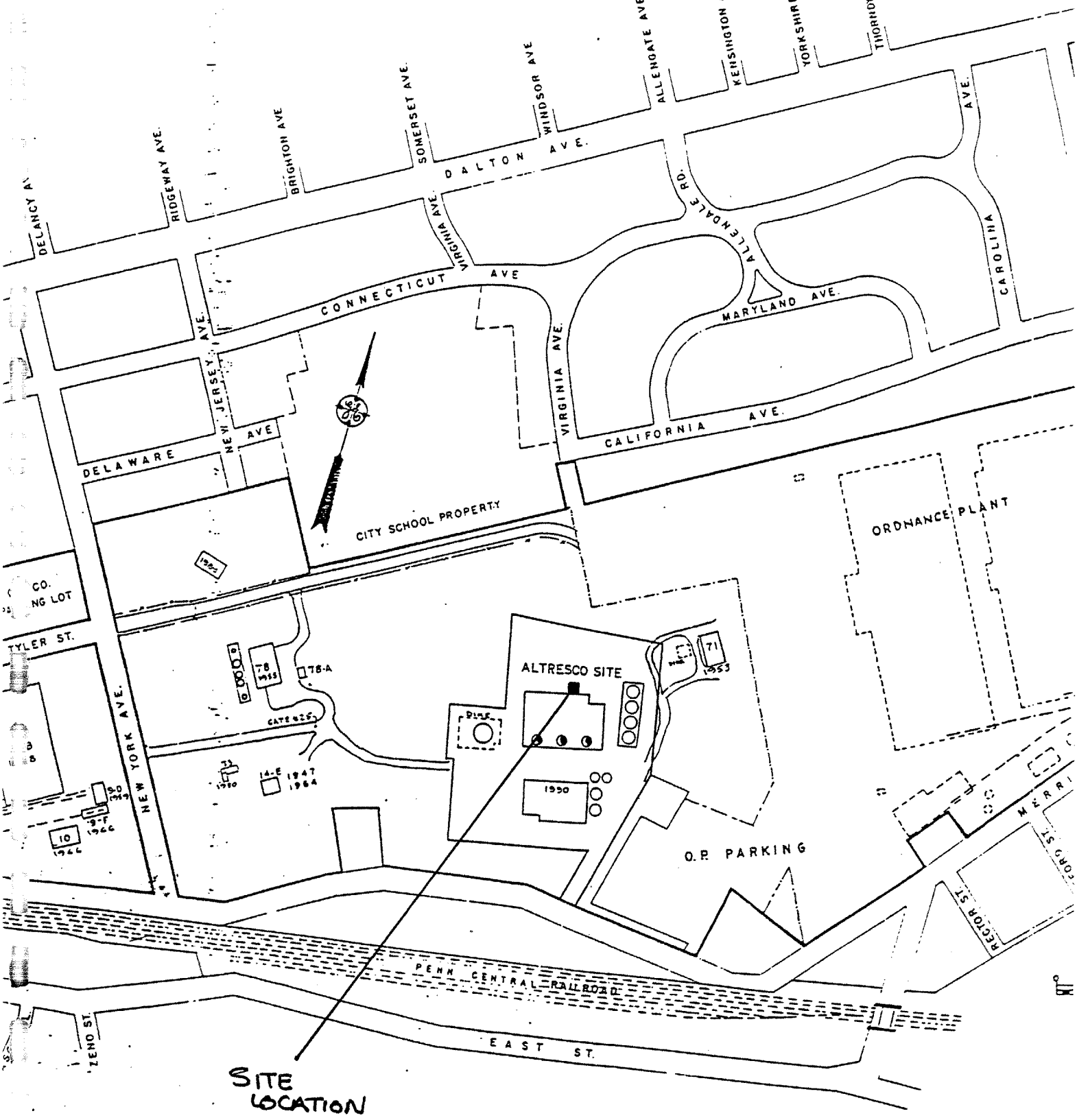
jjh
July 9, 1996
finsum96/7002wmrs.tbl

FIGURE 1

ALTRESCO WATER MAIN REPAIR SAMPLING

(201.70.02)

167

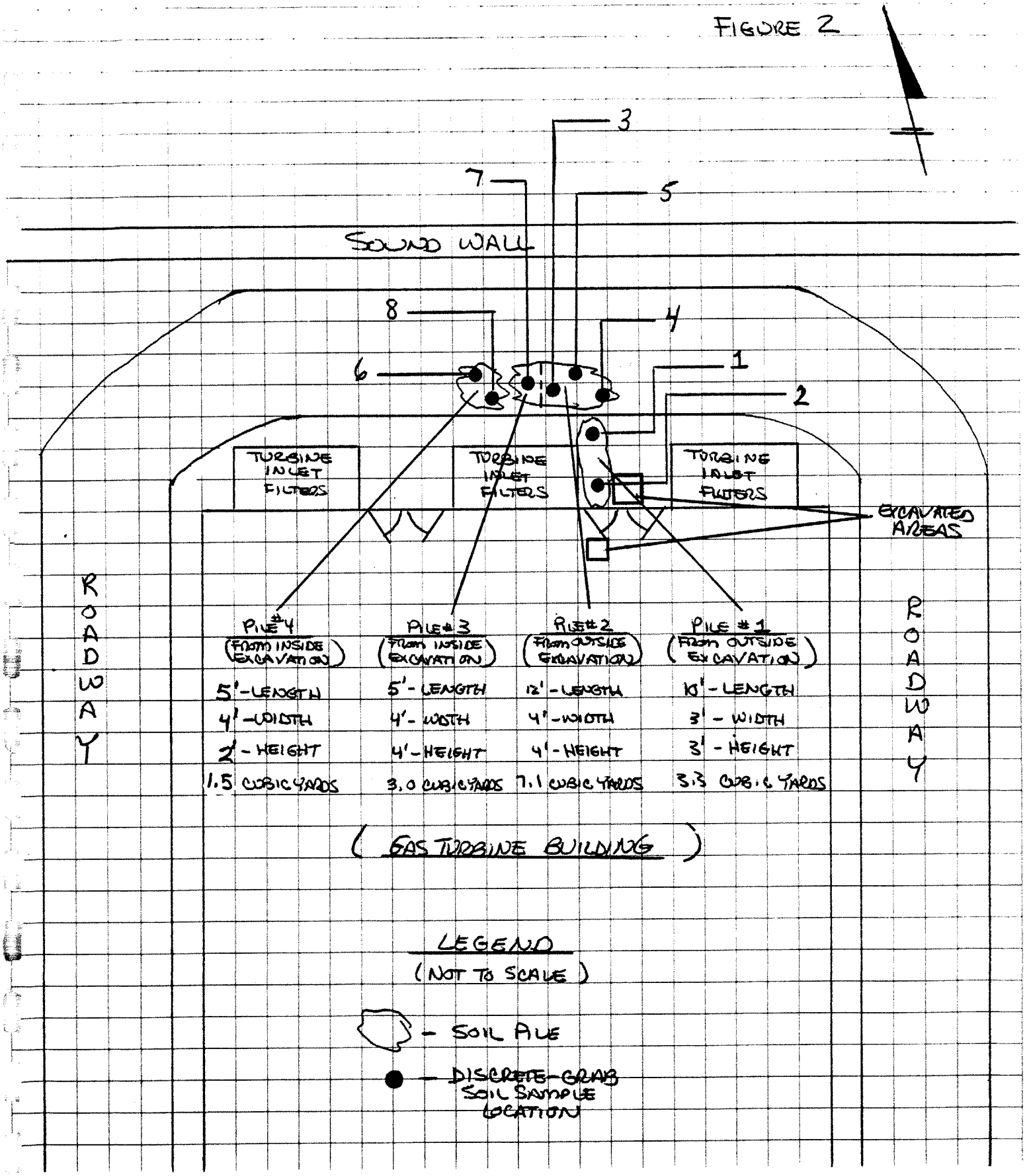


BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

SUBJECT	PROJ. NO.	BY	DATE	SHEET
ALTRESCO WATER MAIN REPAIR SAMPLING	201.70.02	JJH	6/27/96	1/1

16-4

FIGURE 2



Attachment 1

GENERAL ELECTRIC

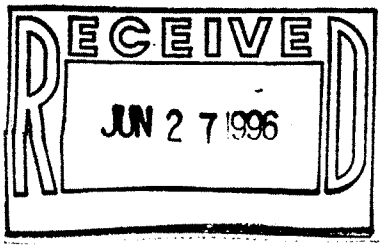
ENVIRONMENTAL LABOROTORY

Pittsfield, MA

Altresco Water Main Repair Sampling — 6/27/96

Project No. 201.70.02

Sample Number	Sample Date	Sample Type	PCB Content (ug/g)	Comments
ALT-WMRS-1	6/25/96	soil	7	
ALT-WMRS-2	6/25/96	soil	7	
ALT-WMRS-3	6/25/96	soil	7	
ALT-WMRS-4	6/25/96	soil	7	
ALT-WMRS-5	6/25/96	soil	7	



1242 Reference Standard LA50944	107.40%
1260 Reference Standard LA51703	109.80%

Comments:

Analysis - GC/ECD packed column

1 - Elevated reporting limit due to matrix interferences.

2 - Estimate only, result above upper calibration limit.

Report by JS Nicholson

Distribution: WA Fessler, File, [redacted] J Bujak

WP-6357

GENERAL ELECTRIC

ENVIRONMENTAL LABOROTORY
Pittsfield, MA

Altresco Water Main Repair Sampling 7/3/96
Project No. 201.70.02

Sample Number	Sample Date	Sample Type	PCB Content (ug/g)	Comments
ALT-WMRS-6	6/26/96	soil	1	
ALT-WMRS-7	6/26/96	soil	11	
ALT-WMRS-8	6/26/96	soil	1	
ALT-WMRS-8 Dup	6/26/96	soil	2	

1242 Reference Standard LA50944	111.30%
1260 Reference Standard LA51703	111.30%

Comments: Analysis - GC/ECD packed column
1 - Elevated reporting limit due to matrix interferences.
2 - Estimate only, result above upper calibration limit.

Report by JS Nicholson

Distribution: WA Fessler, A Cole, File, J Bujak

WP-6362

Attachment 2

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

PHOTOIONIZATION DETECTOR (PID) - MicroTIP™ HL-2000 CALIBRATION FORM

Altresco Water Main Repair Sampling

(201.70.02)

Date: 6-26-96

		Initials
1.)	Connect the regulator to the span gas cylinder.	JJH
2.)	Open the valve on the gas bag by turning the valve stem fully counterclockwise.	JJH
3.)	Attach the nut to the regulator.	JJH
4.)	Turn the regulator knob counterclockwise about half a turn.	JJH
5.)	Fill the gas bag about half full and then close the regulator fully clockwise.	JJH
6.)	Disconnect the bag from the adapter and empty it. Flush bag two (2) times with span gas and then fill it.	JJH
7.)	Close the gas bag by turning the valve clockwise.	JJH
8.)	Press **CAL** and enter the desired response factor: **1.00**	JJH
9.)	**Connect zero gas then press ENTER** will display. Expose meter to ambient air and press **ENTER**	JJH
10.)	Meter displays **Calibrating now, please wait...**, then asks for span gas concentration, enter **100.00** and then press **ENTER.**	JJH
11.)	Connect span gas and then press **ENTER.**	JJH
12.)	Meter displays **Calibrating now, please wait..**	JJH
13.)	Meter displays **100 ppm** and then goes to ready mode, unit is calibrated.	JJH

jjh
June 27, 1996
finsum96\7002wmrs.cal

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

PHOTOIONIZATION DETECTOR (PID) - MicroTIP™ HL-2000 CALIBRATION FORM

Altresco Water Main Repair Sampling

(201.70.02)

Date: 6-27-96

		Initials
1.)	Connect the regulator to the span gas cylinder.	JJH
2.)	Open the valve on the gas bag by turning the valve stem fully counterclockwise.	JJH
3.)	Attach the nut to the regulator.	JJH
4.)	Turn the regulator knob counterclockwise about half a turn.	JJH
5.)	Fill the gas bag about half full and then close the regulator fully clockwise.	JJH
6.)	Disconnect the bag from the adapter and empty it. Flush bag two (2) times with span gas and then fill it.	JJH
7.)	Close the gas bag by turning the valve clockwise.	JJH
8.)	Press CAL and enter the desired response factor: 1.00	JJH
9.)	Connect zero gas then press ENTER will display. Expose meter to ambient air and press ENTER	JJH
10.)	Meter displays Calibrating now, please wait..., then asks for span gas concentration, enter 100.00 and then press ENTER.	JJH
11.)	Connect span gas and then press ENTER.	JJH
12.)	Meter displays Calibrating now, please wait...	JJH
13.)	Meter displays 100 ppm and then goes to ready mode, unit is calibrated.	JJH

jjh
June 27, 1996
finsum96\7002wmrs.cal

Attachment 3

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

PHOTOIONIZATION DETECTOR (PID) - MicroTIP™ HL-2000 HEAD SPACE SCREENING RESULT SHEET

Altresco Water Main Repair Sampling

(201.70.02)

Date: 6-26 and 6-27-96
Operator: Jim Hassett

Sample Location	Reading Sample A	Reading Sample B	Average of Samples A & B
1	1.8	2.0	1.90
2	1.6	1.9	1.75
3	2.4	2.1	2.25
4	2.2	2.4	2.30
5	2.2	2.3	2.25
6	5.5	4.6	5.05
7	5.0	4.6	4.80
8	3.2	3.6	3.40

jjh
July 9, 1996
finsum96\7002wmrs.hsp

Attachment 4

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists
6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 20170.02
PROJECT NAME: ALTRESCO WATERMAIN REPAIR SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID SOIL	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCBs	REMARKS
ALT-WMRS-1		6/25/96	1040		X	X			1	X	
ALT-WMRS-2			1050		X	X			1	X	
ALT-WMRS-3			1100		X	X			1	X	
ALT-WMRS-4			1110		X	X			1	X	
ALT-WMRS-5			1120		X	X			1	X	

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	6/25/96 1120			6/25/96 1145	6/25/96 11:43AM
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
				DELIVERED TO PITTSFIELD GE LABORATORY	

BBL
BASLAND, BOUCK & LEE, INC.
engineers & scientists
6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 201.70.02

PROJECT NAME: ALTRESCO WATER MAIN REPAIR SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID SOIL	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCBs	REMARKS
ALT-WMRS-6		6/26/96	1640		X	X			1	X	
ALT-WMRS-7			1650		X	X			1	X	
ALT-WMRS-8			1700		X	X			1	X	

	DATE/TIME			DATE/TIME	
SAMPLED BY: (SIGNATURE) J. Lawton B	6/26/96 1700	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE) J. Lawton B	6/27/96 0920	RECEIVED BY: (SIGNATURE) J. Nicholson 6/27/96 9:20 AM
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS: DELIVERED TO PITTSFIELD GE LABORATORY	

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-17 - PGC Proposed Building Site

7-1

SAMPLING REQUEST

DATE: November 21, 1996

TO: B. Eullan - BBL

CC: J. Nicholson

FROM: A. Cole - GEC

RE: PITTSFIELD GENERATING COMPANY PROPOSED BUILDING SITE

The parking lot on Merrill Rd. at the base of the driveway to Pittsfield Generating Company (PGC) has a building outline marked on the asphalt. Please divide this outline into quadrants and take samples from 0 - 2 ft and 2 - 4 feet in each of the quadrants for PCB analysis (method 8080) by the GE lab. Do a headspce analysis with the PID on eachof the samples. If you receive a hit above 10 on the PID, take a sample for VOC (method 8240) and 1,2,4, trichlorobenzene. Send the VOC samples to OBG in Syracuse.

Charge this sampling to 201.70.01 - MCP Hill 78 Miscellaneous Sampling.

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

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: Pittsfield Generating Company Proposed Building Site (Pre-Excavation) Sampling

DATE: December 31, 1996
FILE NO.: 201.70.02

INITIATOR: Jeff Ruebesam (GE)

DATE: 11-21-96

LOCATION: Pittsfield Generating Company Parking Lot

CONTACT PERSON: Aimee Cole (GEC) **EXT:** 2534

ITEM DESCRIPTION:

1.) Soil (Under Asphalt Surface)

PURPOSE: To collect soil samples at selected locations at depths of (0-2') and (2-4') to determine PCB concentration.

NOTES: See attached sample request letter from Aimee Cole (GEC) to Bruce Eulian (BBL) dated November 21, 1996.

1.) One (1) location is to be sampled for every 500 square feet of area to be excavated and analyzed for PCBs.

2.) The samples are to be screened for Volatile Organic Compounds (VOCs) with a calibrated Photoionization Detector (PID).

3.) If either of the PID readings for a location are ≥ 10, a field-composite sample from both depths is to be collected and analyzed for VOCs (Method 8240) and 1,2,4 Trichlorobenzene.

4.) GE requests that the PCB analysis be performed by the Pittsfield GE Laboratory and, if necessary, the VOCs and 1,2,4 Trichlorobenzene analyses be performed by the Syracuse,NY OBG Laboratory.

jjh
December 31, 1996
finsum96\7002pbs.cov

DELIVERED TO
OFF RUEBESAM
1-6-97

BBL
BLASLAND, BOUCK & LEE, INC.
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SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: Pittsfield Generating Company Proposed Building Site (Pre-Excavation) Sampling

DATE: December 31, 1996
FILE NO.: 201.70.02
cc: Jeff Ruebesam (GE)

The following is a summary of the sampling program conducted 12-3 and 12-4-96 on the soil under the asphalt that was outlined for a proposed building site. The site was located in the parking lot on Merrill Road adjacent to the Pittsfield Generating Company. Approximately 5000 square feet was found outlined to be excavated.

At the request of Aimee Cole (GEC) the following sampling program was implemented:

- Ten locations were sampled at depths of (0 - 2') and (2 - 4') for PCBs.

Notes:

The samples were screened with a calibrated Photoionization Detector (PID) and were found to be <10, therefore, no Volatile Organic Compounds (VOCs) or 1,2,4 Trichlorobenzene analyses were performed.

The samples were collected with a split-spoon sampler.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). Analytical results provided by the Pittsfield GE Lab (Attachment 1), PID calibration forms (Attachment 2), a PID head space screening results sheet (Attachment 3) and a copy of the chains of custody that accompanied these samples (Attachment 4) have also been included.

jjh
December 31, 1996
finsum96\7002pbs.sum

BBL
BLASLAND, BOUCK & LEE, INC.
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Pittsfield Generating Company Proposed Building Site (Pre-Excavation) Sampling

(201.70.02)

(Table 1)

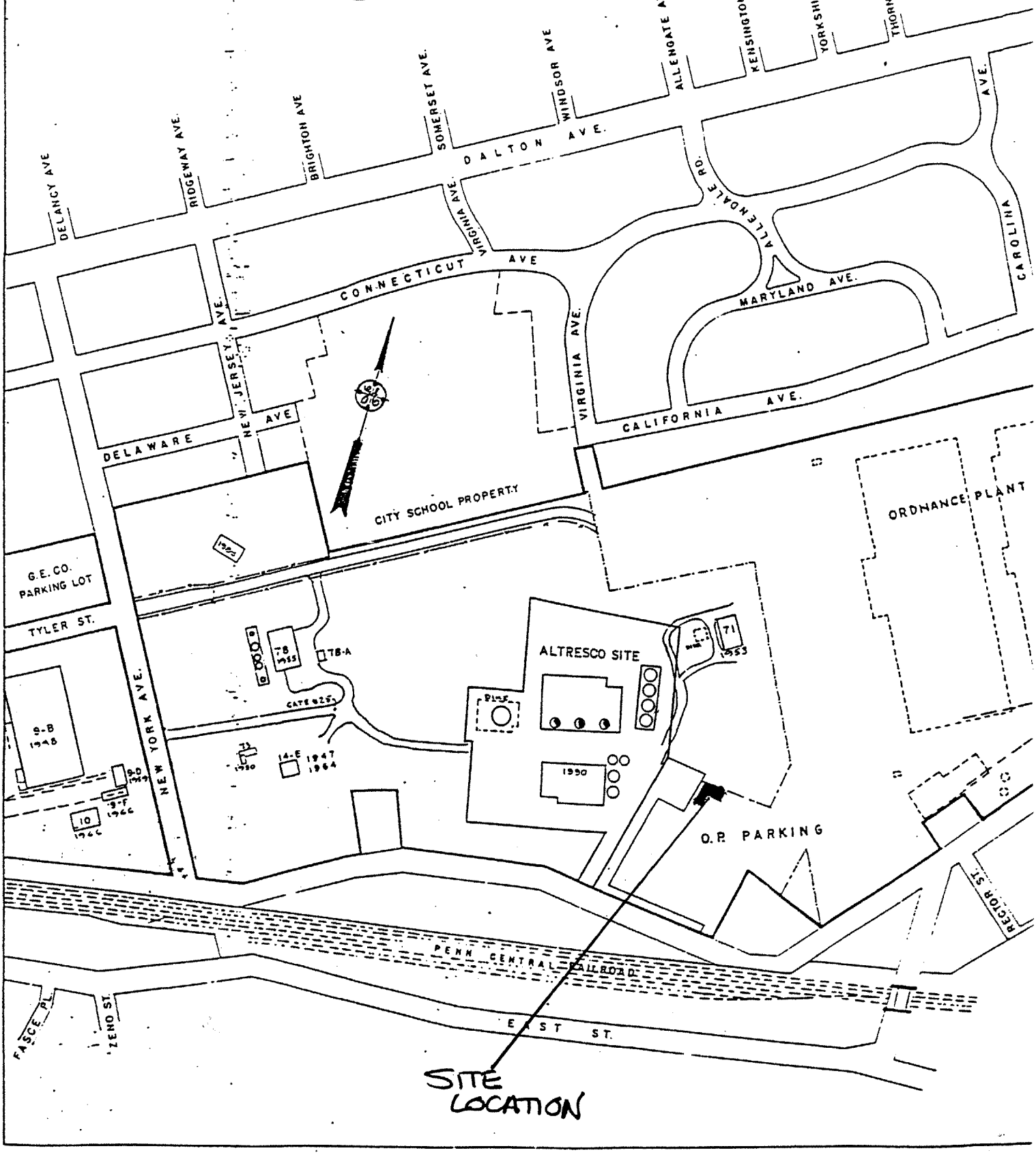
LAB ID	SAMPLE DATE	SAMPLE LOCATION	PCB (ppm)	SAMPLE MATERIAL	SAMPLE DEPTH	SAMPLE TYPE	SEE FIGURE
PGC-PBS-1 (0-2')	12-3-96	1	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-1 (2-4')	12-3-96	1	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-2 (0-2')	12-3-96	2	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-2 (2-4')	12-3-96	2	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-3 (0-2')	12-3-96	3	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-3 (2-4')	12-3-96	3	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-4 (0-2')	12-4-96	4	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-4 (2-4')	12-4-96	4	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-5 (0-2')	12-4-96	5	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-5 (2-4')	12-4-96	5	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-6 (0-2')	12-4-96	6	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-6 (2-4')	12-4-96	6	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-7 (0-2')	12-4-96	7	1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-7 (2-4')	12-4-96	7	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-8 (0-2')	12-4-96	8	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-8 (2-4')	12-4-96	8	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-9 (0-2')	12-4-96	9	<1.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-9 (2-4')	12-4-96	9	<1.	SOIL	(2 - 4')	DISCRETE-GRAB	2
PGC-PBS-10 (0-2')	12-4-96	10	2.	SOIL	(0 - 2')	DISCRETE-GRAB	2
PGC-PBS-10 (2-4')	12-4-96	10	1.	SOIL	(2 - 4')	DISCRETE-GRAB	2

jjh
December 31, 1996
finsum96\7002pbs.tbl

FIGURE 1

PITTSFIELD GENERATING COMPANY PROPOSED BUILDING SITE (PRE-EXCAVATION) SAMPLING

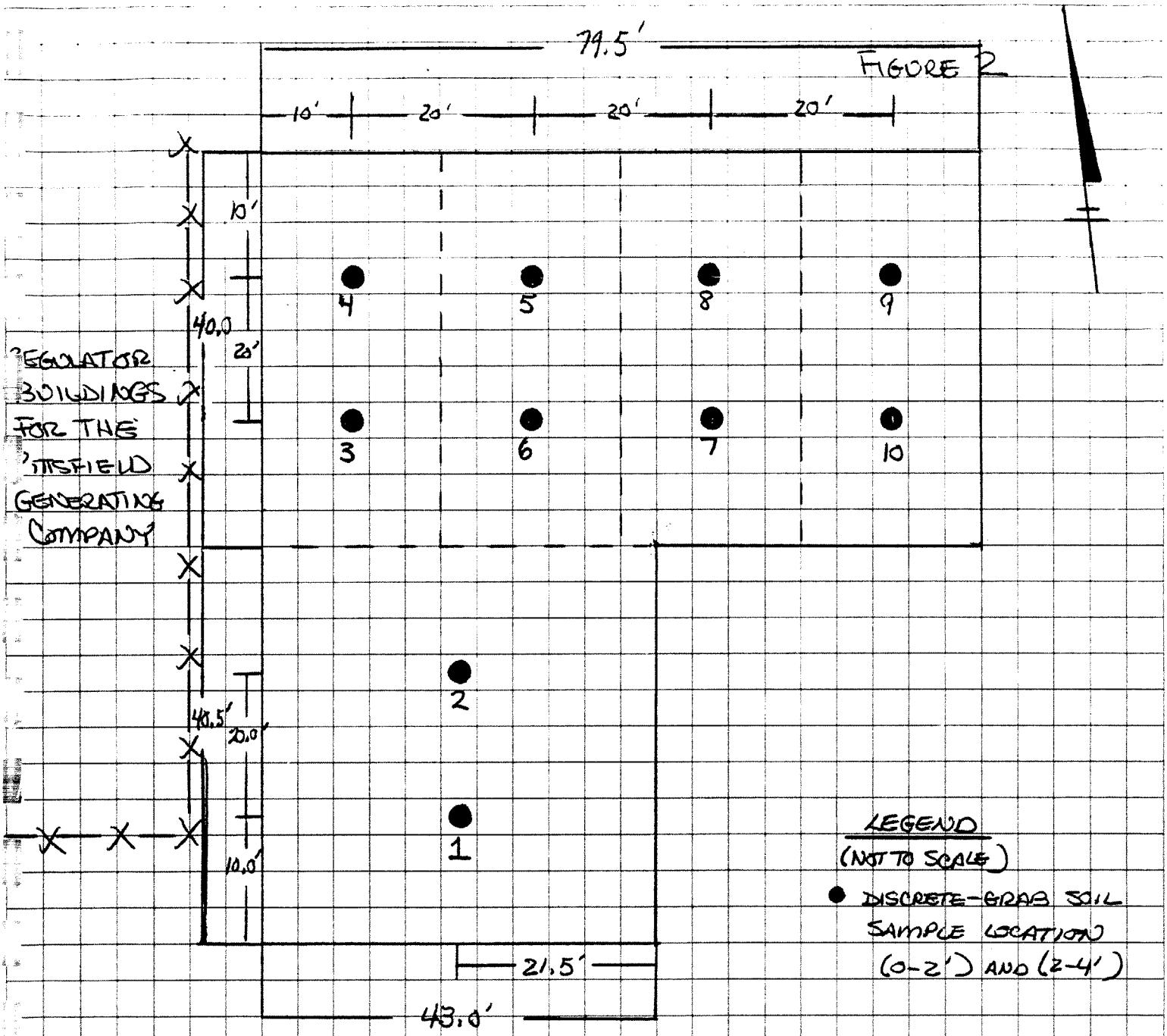
(201.70.02)



BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

SUBJECT	PROJ. NO.	BY	DATE	SHEET
PITTSFIELD GENERATING COMPANY PROPOSED BUILDING SITE AREA EXCAVATION SAMPLING	201.70.02	JJH	12/31/96	1 / 1

FIGURE 2



Attachment 1

17-8

GENERAL ELECTRIC

ENVIRONMENTAL LABORATORY
Pittsfield, MA

Pittsfield Generating Co. Proposed Building Site - Pre-Excavation Sampling
Proj. # 201.70.01

12/16/96

Sample Number	Sample Date	Sample Type	PCB Content (ug/g)	Comments
PGC-PBS-1 0-2'	12/3/96	SOIL	<1	
PGC-PBS-1 2-4'	12/3/96	SOIL	<1	
PGC-PBS-2 0-2'	12/3/96	SOIL	<1	
PGC-PBS-2 2-4'	12/3/96	SOIL	<1	
PGC-PBS-3 0-2'	12/3/96	SOIL	<1	
PGC-PBS-3 2-4'	12/3/96	SOIL	<1	
PGC-PBS-4 0-2'	12/3/96	SOIL	<1	
PGC-PBS-4 2-4'	12/3/96	SOIL	<1	
PGC-PBS-5 0-2'	12/3/96	SOIL	<1	
PGC-PBS-5 2-4'	12/3/96	SOIL	<1	
PGC-PBS-6 0-2'	12/3/96	SOIL	<1	
PGC-PBS-6 2-4'	12/3/96	SOIL	<1	
PGC-PBS-7 0-2'	12/4/96	SOIL	1	
PGC-PBS-7 2-4'	12/4/96	SOIL	<1	
PGC-PBS-8 0-2'	12/4/96	SOIL	<1	
PGC-PBS-8 2-4'	12/4/96	SOIL	<1	
PGC-PBS-9 0-2'	12/4/96	SOIL	<1	
PGC-PBS-9 2-4	12/4/96	SOIL	<1	
PGC-PBS-9 2-4' DUP	12/4/96	SOIL	<1	
PGC-PBS-10 0-2'	12/4/96	SOIL	2	
PGC-PBS-10 2-4'	12/4/96	SOIL	1	
PGC-PBS-10 2-4' SPIKE	12/4/96	SOIL	108.0%	Recovery
1242 Reference Standard # 054-408		109.30%	123.30%	103.30%
1260 Reference Standard LA51703		108.30%	113.30%	109.70%

Comments: Analysis - GC/ECD packed column
1 - Elevated reporting limit due to matrix interferences.
2 - Estimate only, result above upper calibration limit.

Report by JS Nicholson

Distribution: WA Fessler, JRuebesam, J Clampa, File, B Eulian, J Bujak

WP-6423.XLS

Attachment 2

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

5-10

PHOTOIONIZATION DETECTOR (PID) - MicroTIP™ HL-2000 CALIBRATION FORM

Pittsfield Generating Company Proposed Building Site (Pre-Excavation) Sampling

(201.70.02)

Date: 12-3-96/12-4-96

		Initials
1.)	Connect the regulator to the span gas cylinder.	RJP
2.)	Open the valve on the gas bag by turning the valve stem fully counterclockwise.	RJP
3.)	Attach the nut to the regulator.	RJP
4.)	Turn the regulator knob counterclockwise about half a turn.	RJP
5.)	Fill the gas bag about half full and then close the regulator fully clockwise.	RJP
6.)	Disconnect the bag from the adapter and empty it. Flush bag two (2) times with span gas and then fill it.	RJP
7.)	Close the gas bag by turning the valve clockwise.	RJP
8.)	Press **CAL** and enter the desired response factor: **1.00**	RJP
9.)	**Connect zero gas then press ENTER** will display. Expose meter to ambient air and press **ENTER**	RJP
10.)	Meter displays **Calibrating now, please wait...**, then asks for span gas concentration, enter **100.00** and then press **ENTER.**	RJP
11.)	Connect span gas and then press **ENTER.**	RJP
12.)	Meter displays **Calibrating now, please wait...**	RJP
13.)	Meter displays **100 ppm** and then goes to ready mode, unit is calibrated.	RJP

rjp
December 31, 1996
finsum96\7002pbs.cal

Attachment 3

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

12-12

PHOTOIONIZATION DETECTOR (PID) - MicroTIP™ HL-2000 HEAD SPACE SCREENING RESULT SHEET

Pittsfield Generating Company Proposed Building Site (Pre-Excavation) Sampling

(201.70.02)

Operator: Bob Papallo

Sample Location	Sample Date	Reading Sample A	Reading Sample B	Average of Samples A & B
1 (0-2')	12-3-96	1.6	1.4	1.50
1 (2-4')	12-3-96	5.4	5.8	5.60
2 (0-2')	12-3-96	4.6	3.8	4.20
2 (2-4')	12-3-96	4.2	5.6	4.90
3 (0-2')	12-3-96	3.6	2.8	3.20
3 (2-4')	12-3-96	2.8	2.2	2.50
4 (0-2')	12-3-96	3.6	2.2	2.90
4 (2-4')	12-3-96	5.2	4.6	4.90
5 (0-2')	12-3-96	3.6	2.8	3.20
5 (2-4')	12-3-96	1.8	2.6	2.20
6 (0-2')	12-3-96	3.2	5.4	4.30
6 (2-4')	12-3-96	2.8	2.6	2.70
7 (0-2')	12-4-96	3.4	2.6	3.00
7 (2-4')	12-4-96	4.1	3.5	3.80
8 (0-2')	12-4-96	2.6	1.8	2.20
8 (2-4')	12-4-96	3.5	4.3	3.90
9 (0-2')	12-4-96	6.2	5.6	5.90
9 (2-4')	12-4-96	4.4	3.8	4.10
10 (0-2')	12-4-96	3.3	3.7	3.50
10 (2-4')	12-4-96	4.2	3.8	4.00

rjp
December 31, 1996
finsum96\7002pbs.hsp

17-13

Attachment 4

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists
6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO. 201.70,01

PROJECT NAME PITTSFIELD GENERATING COMPANY/ PROPOSED BUILDING SITE (PRE-EXCAVATION SAMPLING)

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE SOLID/SOIL	WIPE	WATER	NO. OF CONTAINERS	PCB'S (METHOD 8080)				REMARKS
PGC-PBS-1	(0-2')	12-3-96	1230		X	X			1	X				
PGC-PBS-1	(2-4')	↓	1315		X	X			1	X				
PGC-PBS-2	(0-2')	↓	1345		X	X			1	X				
PGC-PBS-2	(2-4')	↓	1415		X	X			1	X				
PGC-PBS-3	(0-2')	↓	1440		X	X			1	X				
PGC-PBS-3	(2-4')	↓	1500		X	X			1	X				
PGC-PBS-4	(0-2')	↓	1520		X	X			1	X				
PGC-PBS-4	(2-4')	↓	1545		X	X			1	X				
PGC-PBS-5	(0-2')	↓	1615		X	X			1	X				
PGC-PBS-5	(2-4')	↓	1645		X	X			1	X				
PGC-PBS-6	(0-2')	↓	1715		X	X			1	X				
PGC-PBS-6	(2-4')	↓	1745		X	X			1	X				

SAMPLED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
Robert J. Papallo	12/3/96 1745		Robert J. Papallo	12/4/96 0800	[illegible]

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE / TIME	REMARKS
				DELIVERED TO PITTSFIELD GE LAB

1-14

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists
6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO. 201.70.01

PROJECT NAME PITTSFIELD GENERATING COMPANY/ PROPOSED BUILDING SITE (PRE-EXCAVATION SAMPLING)

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID (SOIL)	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB's (METHOD 8080)					REMARKS
PGC-PBS-7	(0-2')	12-4-96	0830		X	X			1	X					
PGC-PBS-7	(2-4')		0850		X	X			1	X					
PGC-PBS-8	(0-2')		0930		X	X			1	X					
PGC-PBS-8	(2-4')		1005		X	X			1	X					
PGC-PBS-9	(0-2')		1040		X	X			1	X					
PGC-PBS-9	(2-4')		1110		X	X			1	X					
PGC-PBS-10	(0-2')		1145		X	X			1	X					
PGC-PBS-10	(2-4')	↓	1220		X	X			1	X					

SAMPLED BY: (SIGNATURE) Robert D Papallo	DATE/TIME 12/4/96 1220	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE) Robert D Papallo	DATE/TIME 12/4/96 1300	RECEIVED BY: (SIGNATURE) J Nicholson 12/4/96 1:00 A.M.
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS: DELIVERED TO PITTSFIELD GE LAB	

17-15

Appendix E - Analytical Data and Location Plans Associated with Miscellaneous Soil Investigations

Section MS-18 - Oil Line Shut-off Excavation

18-1

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

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: Hill 78 Oil Line Shutoff Excavation
Pit Sampling

DATE: March 21, 1997
FILE NO.: 101.94.110

INITIATOR: John Ciampa (GE)

DATE: 3-13-97

LOCATION: Hill 78

CONTACT PERSON: John Ciampa (GE) **EXT:** 3952

ITEM DESCRIPTION:

1.) Soil (side walls and bottom of excavated pit)

PURPOSE: To collect samples for GE to determine the PCB concentration of the soil on the sidewalls and the bottom of the excavated pit dug to shutoff oil lines on Hill 78.

NOTES:

1.) Four (4) discrete-grab (0 - 6") samples are to be collected and analyzed for PCBs.

2.) GE requests that the samples collected be analyzed by Pittsfield GE Laboratory.

rjp
March 21, 1997
finsum97\94110olp.cov (v)

DELIVERED TO
JEFF RUBERSON (GE)
3-24-97

16-2

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

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: Hill 78 Oil Line Shutoff Excavation
Pit Sampling

DATE: March 21, 1997
FILE NO.: 101.94.110
cc: John Ciampa (GE)

The following is a summary of the sampling program conducted 3-13-97 on Hill 78. Soil samples were collected from the sidewalls and bottom of the excavated pit dug to shutoff oil lines located on Hill 78.

At the request of John Ciampa (GE) the following sampling program was implemented:

- Four (4) locations (two (2) sidewalls and two (2) bottom) were sampled at (0 - 6") depths and analyzed for PCBs.

Note:

The samples were collected with stainless steel scoops.

A summary table of the sampling program has been included (Table 1) along with drawings showing the site location (Figure 1) and sample locations (Figure 2). Analytical results provided by the Pittsfield GE Lab (Attachment 1) and a copy of the chain of custody that accompanied the samples (Attachment 2) have also been included.

njp
March 21, 1997
finsum97\94110olp.sum (v)

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

Hill 78 Oil Line Shutoff Excavation
Pit Sampling

(101.94.110)

Table 1

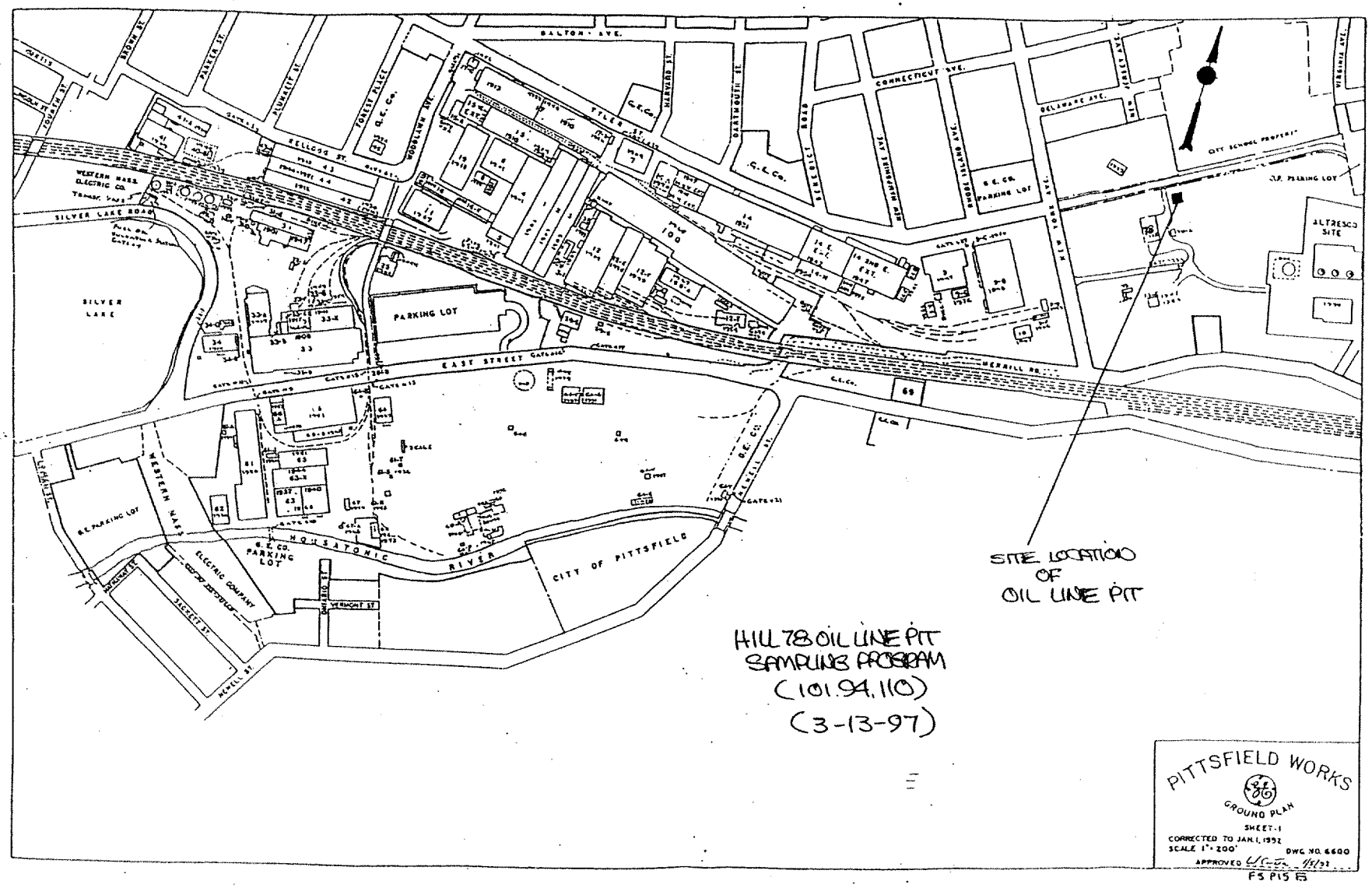
LAB ID	SAMPLE DEPTH	SAMPLE DATE	SAMPLE LOCATION	PCBs (PPM)	SAMPLE MATERIAL	SAMPLE TYPE	SEE FIGURE
78-OL-PIT-1	(0 - 6")	3/13/97	1	1.2	SOIL (EAST SIDE WALL)	DISCRETE-GRAB	2
78-OL-PIT-2	(0 - 6")	3/13/97	2	1.2	SOIL (WEST SIDE WALL)	DISCRETE-GRAB	2
78-OL-PIT-3	(0 - 6")	3/13/97	3	1.4	SOIL (SOUTH-MIDDLE BOTTOM)	DISCRETE-GRAB	2
78-OL-PIT-4	(0 - 6")	3/13/97	4	1.5	SOIL (MIDDLE OF BOTTOM)	DISCRETE-GRAB	2

NOTE:

THE SAMPLES WERE COLLECTED WITH STAINLESS STEEL SCOOPS.

rjp
March 21, 1997
finsum97/94110olp.tbl (v)

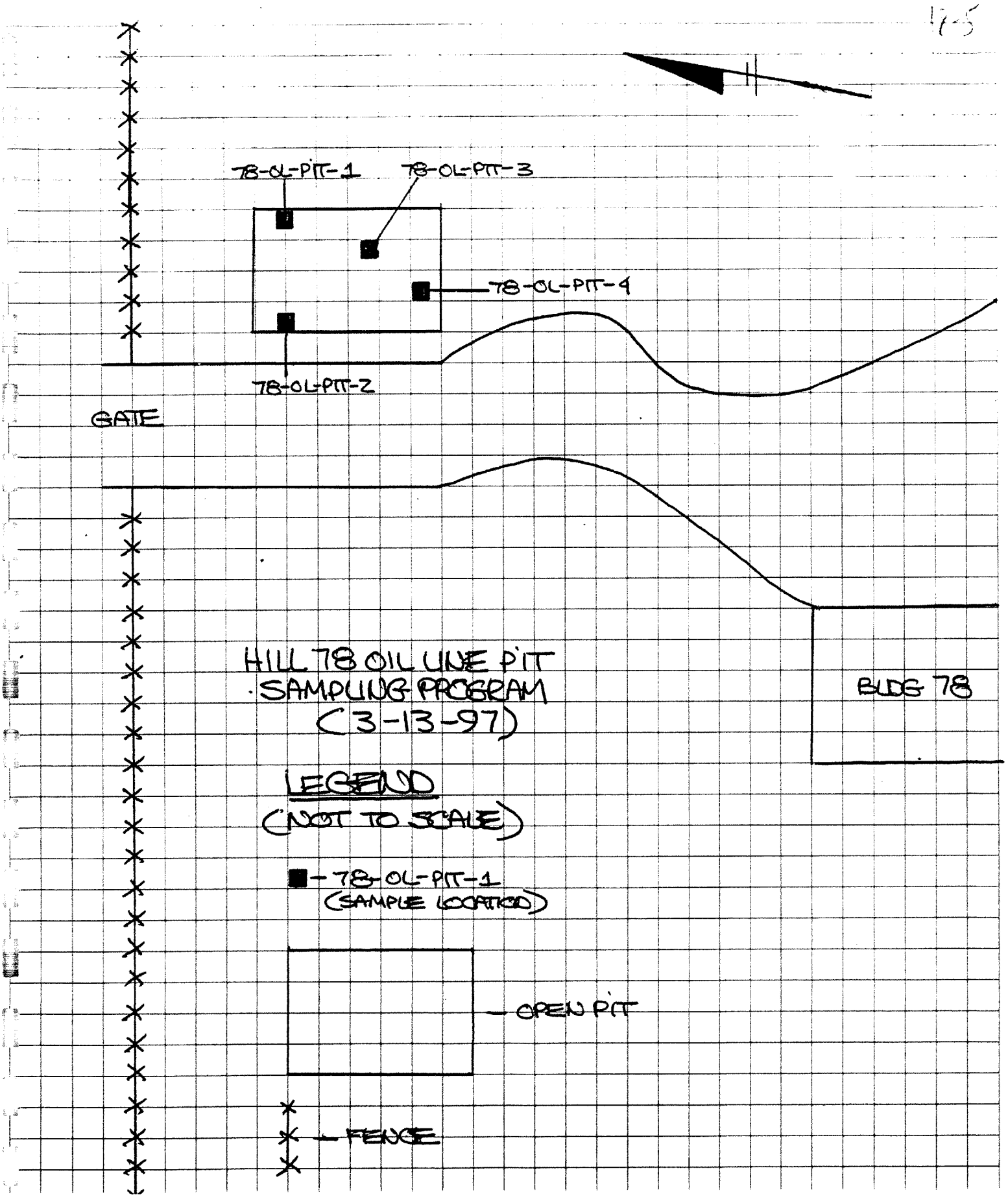
FIGURE 1


BALTON AVE.
TYLER ST.
CONNECTICUT AVE.
DELAWARE AVE.
KELLOGG ST.
SILVER LAKE ROAD
SILVER LAKE
PARKING LOT
EAST STREET
MERRILL RD.
ALTRESCO SITE
CITY SCHOOL PROPERTY
G.E. PARKING LOT
G.E. CO. PARKING LOT
WESTERN MASS. ELECTRIC CO.
WESTERN MASS. ELECTRIC COMPANY
HOUSATONIC RIVER
CITY OF PITTSFIELD
VERMONT ST.
SITE LOCATION OF OIL LINE PIT
HILL 78 OIL LINE PIT SAMPLING PROGRAM (101.94.110) (3-13-97)
PITTSFIELD WORKS
GROUND PLAN
SHEET-1
CORRECTED TO JAN. 1, 1952
SCALE 1"= 200'
DWG. NO. 6600
APPROVED
FS PI5 E5

BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

FIGURE 2

SUBJECT	PROJ. NO.	BY	DATE	SHEET
HILL 78 PIT SAMPLING PROGRAM	101.94.110	RJP	3-13-97	1 OF 1



Attachment 1

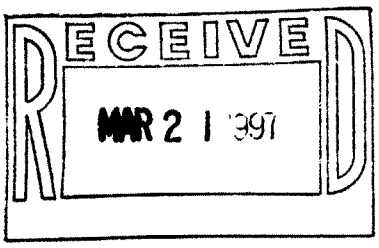
GENERAL ELECTRIC

ENVIRONMENTAL LABORATORY
Pittsfield, MA

Hill 78 Oil Line Pit Sampling Program
Project #101.94.110

3/20/97

Sample Number	Sample Date	Sample Type	PCB Content (ug/g)	Comments
78-OL-PIT-1	3/13/97	soil	1.2	
78-OL-PIT-2	3/13/97	soil	1.2	
78-OL-PIT-3	3/13/97	soil	1.4	
78-OL-PIT-4	3/13/97	soil	1.5	
78-OL-PIT-4 DUP	3/13/97	soil	1.5	



Accustandard 1242 #A6090018	85.90%	Recovery
Accustandard 1260 #A6120034	103.20%	Recovery

Comments:

Analysis - GC/ECD packed column
1 - Elevated reporting limit due to matrix interferences.
2 - Estimate only, result above upper calibration limit.

Report by JS Nicholson

Distribution:

WA Fessler
M Phillips
File
B Eulian
J Bujak
J Ciampa

WP-6479.XLS

Attachment 2

BBL
BARTON, BOUCK & LEE, INC.
engineers & scientists
6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME
101.94.110	Hill 78 - OIL LINE PIT SAMPLING PROGRAM

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: SOIL	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB's					REMARKS
78-OL-PIT-1		3-13-97	1500		X		X		1	X					
78-OL-PIT-2		3-13-97	1515		X		X		1	X					
78-OL-PIT-3		3-13-97	1530		X		X		1	X					
78-OL-PIT-4		3-13-97	1545		X		X		1	X					

SAMPLED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
[signature]	3/13/97	1545	[signature]				
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	REMARKS	
[signature]	3/14/97	0840	[signature]	3/14/97	8:40 A.M.	DELIVERED TO PITTSFIELD GE LAB	