MCP INTERIM PHASE II REPORT AND CURRENT ASSESSMENT SUMMARY FOR EAST STREET AREA 1/USEPA AREA 3

VOLUME IV OF IV

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

OCTOBER 1994

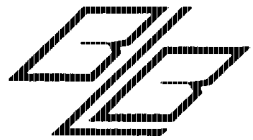
BLASLAND, BOUCK & LEE, INC.
6723 TOWPATH ROAD, BOX 66
SYRACUSE, NEW YORK 13214

MCP INTERIM PHASE II REPORT AND CURRENT ASSESSMENT SUMMARY FOR EAST STREET AREA 1/USEPA AREA 3

TABLE OF CONTENTS

VOLUME IV OF IV

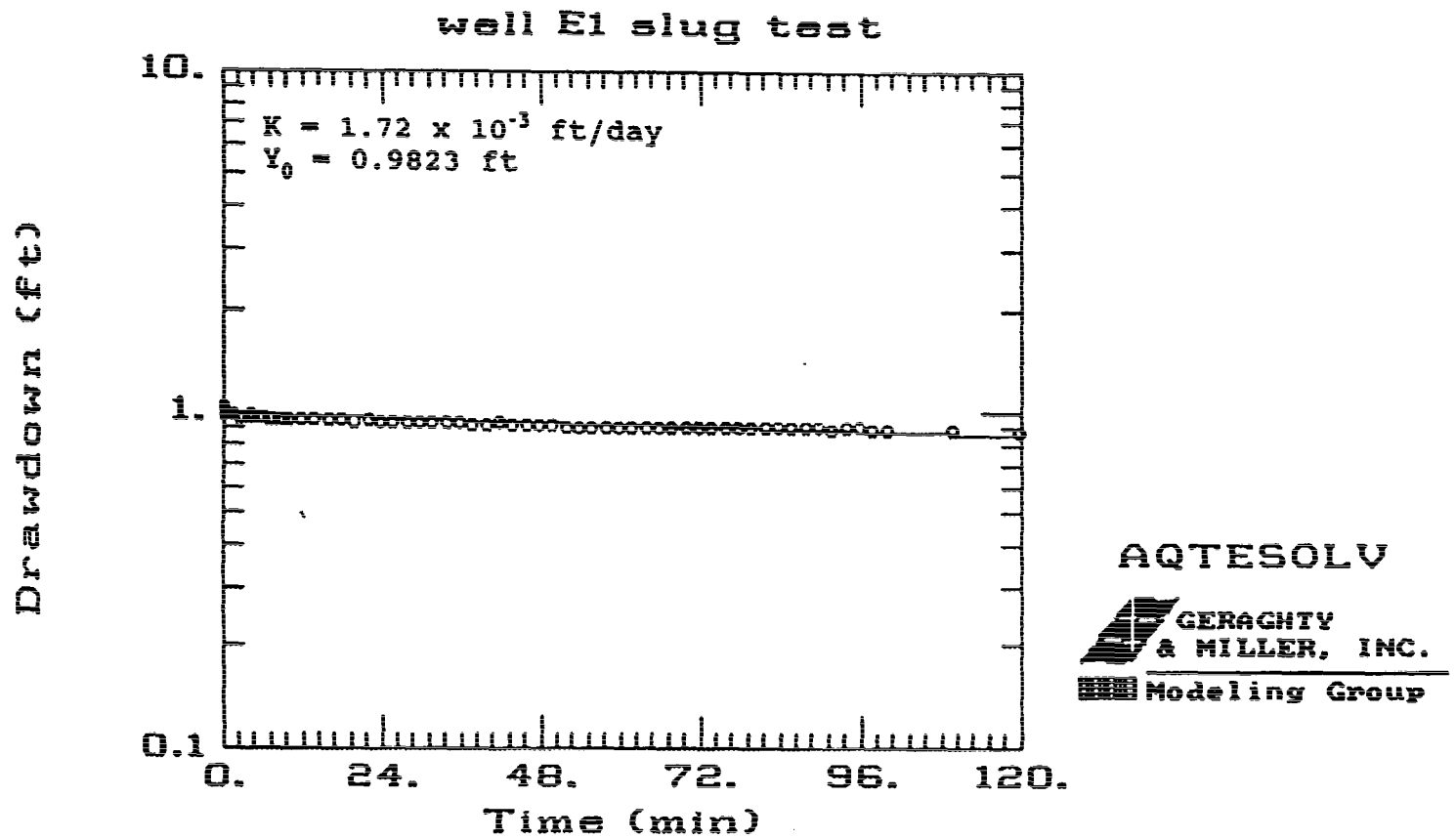
APPENDICES

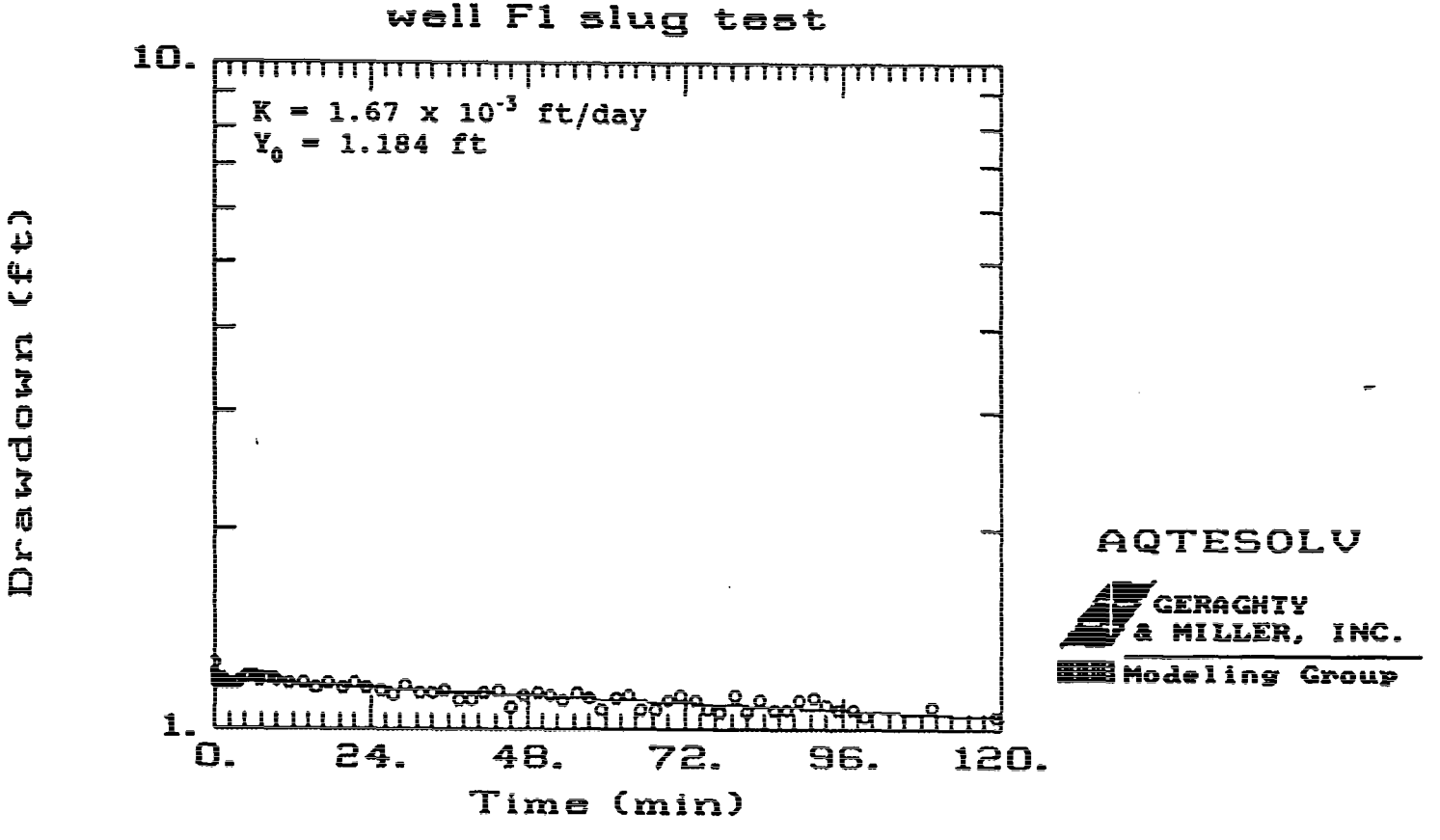


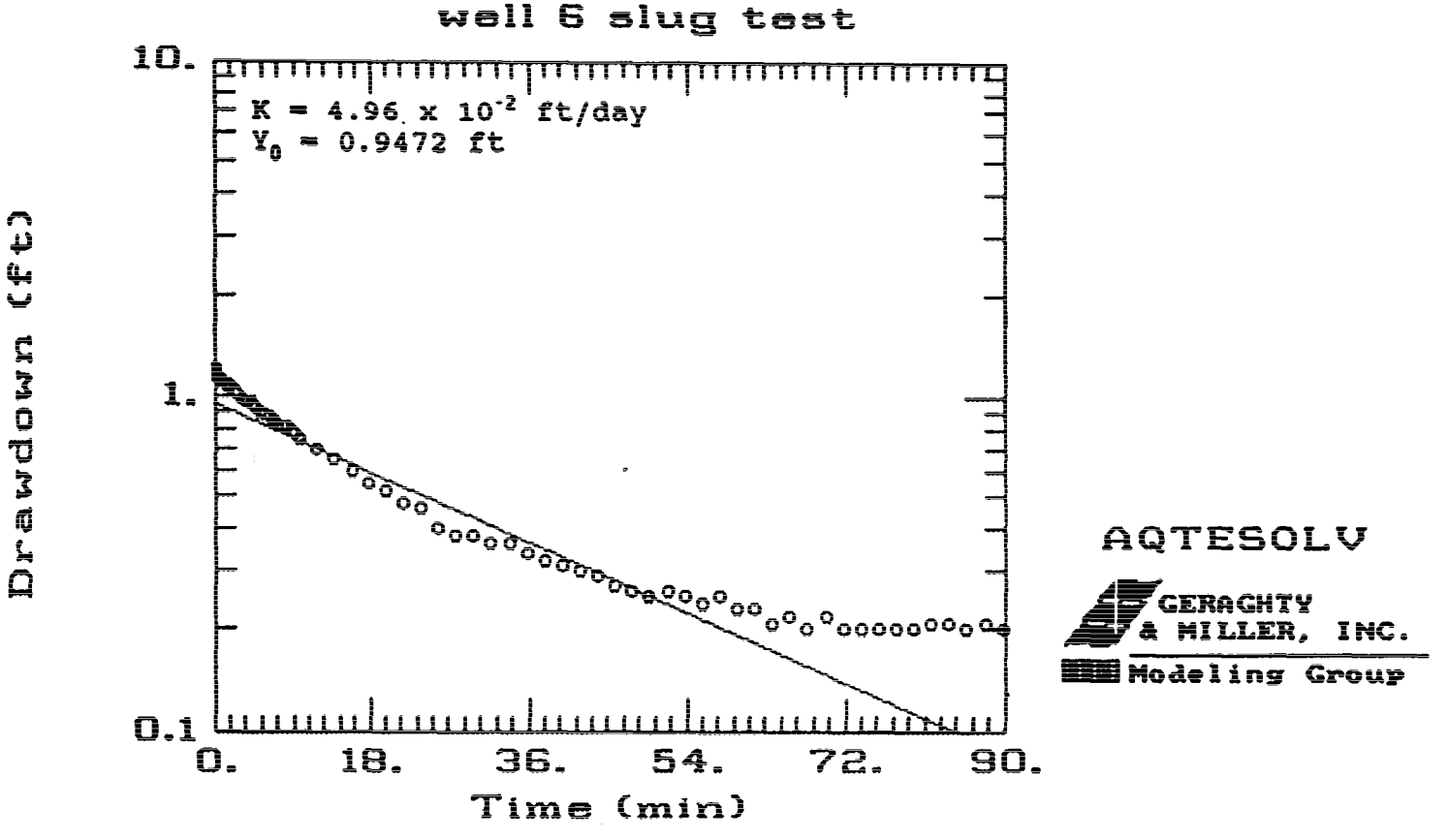
Appendices

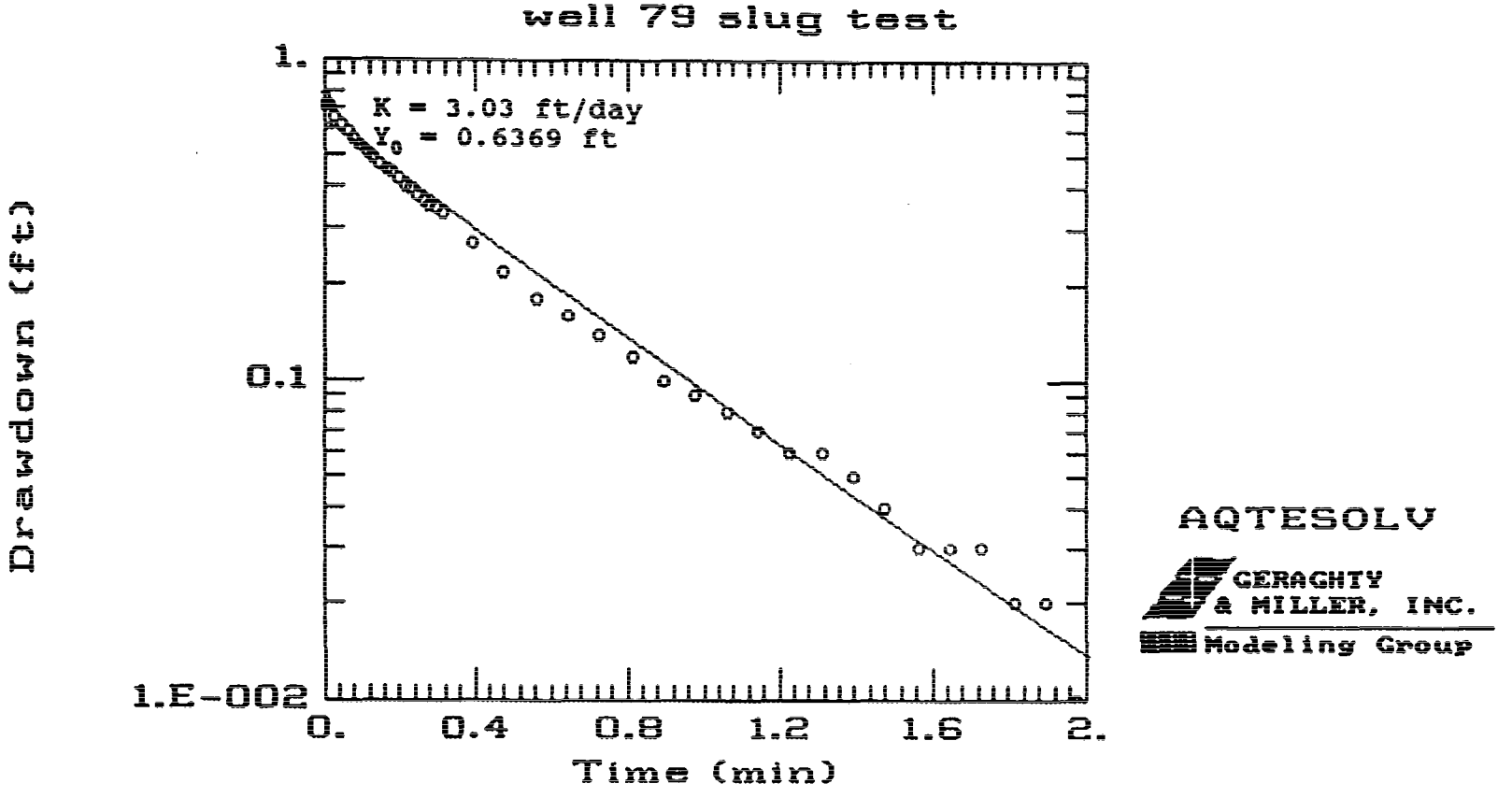
APPENDIX K

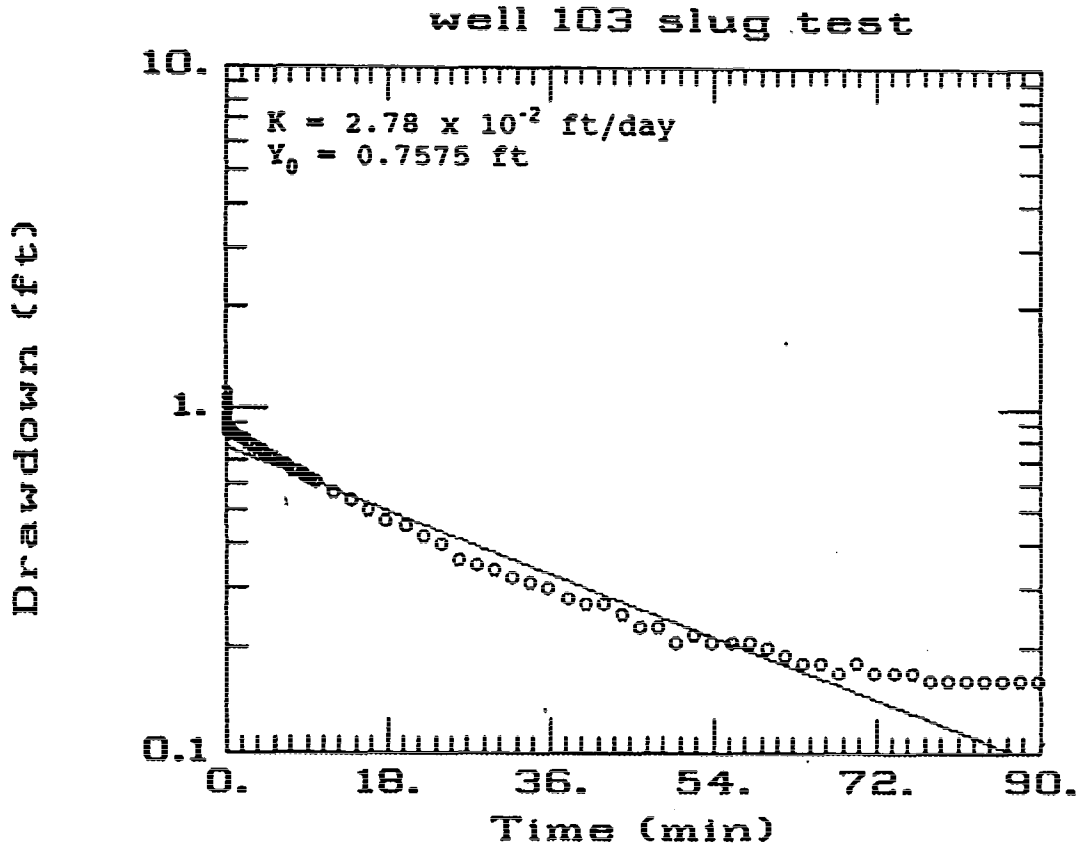
MCP SLUG TEST RESULTS


well E1 slug test
10.
1.
0.1
K = 1.72 x 10-3 ft/day
Y0 = 0.9823 ft
Drawdown (ft)
0.
24.
48.
72.
96.
120.
Time (min)
AQTESOLV
GERAGHTY & MILLER, INC.
Modeling Group


well F1 slug test
10.
1.
K = 1.67 x 10-3 ft/day
Y0 = 1.184 ft
Drawdown (ft)
0.
24.
48.
72.
96.
120.
Time (min)
AQTESOLV
GERAGHTY & MILLER, INC.
Modeling Group


well 6 slug test
K = 4.96 x 10^-2 ft/day
Y0 = 0.9472 ft
10.
1.
0.1
Drawdown (ft)
0.
18.
36.
54.
72.
90.
Time (min)
AQTESOLV
GERAGHTY & MILLER, INC.
Modeling Group


well 79 slug test
K = 3.03 ft/day
Y_0 = 0.6369 ft
Drawdown (ft)
1.
0.1
1.E-002
0.
0.4
0.8
1.2
1.6
2.
Time (min)
AQTESOLV
GERAGHTY & MILLER, INC.
Modeling Group



AQTESOLV

GERAGHTY & MILLER, INC.
Modeling Group

APPENDIX L

INFORMATION RELATED TO MISCELLANEOUS SOILS AND OTHER INVESTIGATIONS

APPENDIX L, SECTION 1

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 9B STEAMLINE REPAIR SAMPLING	101-75-01	HE	3/11/91	

Request for Sampling

Date: 2-22-91

Initiator: Mark Phillips

BLDG Location: Outside Bldg. 9B

Contact Person Mark Phillips Ext 3027

Item Description

1) Soil

2) Concrete, Asphalt

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

1) Soil, concrete and asphalt to be sampled for P.C.B's method 8080. P.I.D. readings to be taken on soil.

2) Soil to be analyzed for VOC's method 8240 if P.I.D readings exceed 10 PPM. Sampling program was conducted on a discrete grab-core sample basis.

DELIVERED TO
GRANT BOWMAN (GE)
3-15-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 9B Steamline Repair Sampling

Date: 3-15-91
File No: 101-75-01
cc: Grant Bowman (GE)
Mark Phillips (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside Bldg 9B on 3-6-91. 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
SLS-C1	<1.0	1	SOIL	DISCRETE-GRAB	0'-2'
.S-C2	<1.0	2	SOIL	DISCRETE-GRAB	0'-2'
9B-SLS-C3	<1.0	3	CONCRETE	DISCRETE-CORE	0"-4"
9B-SLS-C4	<1.0	4	CONCRETE	DISCRETE-CORE	0"-4"
9B-SLS-C5	<1.0	5	ASPHALT	DISCRETE-GRAB	0"-3"

VOC SAMPLING RESULTS METHOD 8240

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
9B-SLS-C6	SEE OBG LAB REPORT	1	SOIL	DISCRETE-GRAB	0'-2'
9B-SLS-C7	SEE OBG LAB REPORT	2	SOIL	DISCRETE-GRAB	0'-2'

jjh

OBG LABORATORIES, INC.

Volatile Organics Method 8240

PRELIMINARY

CLIENT Ebasco & Bovis Engineers JOB NO. 2857 026 577

DESCRIPTION Bldg 96 steamline Repair

Project # 101-75-01 MATRIX: Soil

DATE COLLECTED 3-6-91 DATE RECEIVED 3-7-91 DATE ANALYZED 3-11-91

DESCRIPTION:	96-SL5-6C	96-SL5-07			
SAMPLE NO.:	L9694	L9695			
Chloromethane	<12	<11			
Bromomethane	↓	↓			
Vinyl chloride					
Chloroethane					
Methylene chloride	<6	<6			
Acetone	<12	<11			
Carbon disulfide	<6	<6			
1,1-Dichloroethene	↓	↓			
1,1-Dichloroethane					
1,2-Dichloroethene (total)					
Chloroform					
1,2-Dichloroethane					
2-Butanone	<12	<11			
1,1,1-Trichloroethane	<6	<6			
Carbon tetrachloride	<6	<6			
Vinyl acetate	<12	<11			
Bromodichloromethane	<6	<6			
1,2-Dichloropropane	↓	↓			
cis-1,3-Dichloropropene					
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					

Authorized: _____

Date: _____

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.

Volatile Organics
Method 8240

PRELIMINARY

CLIENT Blasland + Bouck Engineers JOB NO. 2857 026 5-7

DESCRIPTION Bldg 9B steamline Repair

Project # - 101-75-01 MATRIX: Soil

DATE COLLECTED 3-6-91 DATE RECEIVED 3-7-91 DATE ANALYZED 3-11-91

DESCRIPTION:	9B-SCS-C6	9B-SCS-C7			
SAMPLE NO.:	L9694	L9695			
trans-1,3-Dichloropropene	<6	<6			
Bromoform	<6	<6			
4-Methyl-2-pentanone	<12	<11			
2-Hexanone	<12	<11			
Tetrachloroethene	<6	<6			
1,1,2,2-Tetrachloroethane	↓	↓			
Toluene	↓	↓			
Chlorobenzene	↓	↓			
Ethylbenzene	↓	↓			
Styrene	↓	↓			
Xylene (total)	↓	↓			

Comments: 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.~~

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

Certification No.: 10155

Units: ug/kg dry weight

Page 2 of 2

Authorized: ____

Date: ____

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2152

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-01

Date Analyzed 3/7 → 3/8/91 DATE COLLECTED See Below DATE RECEIVED 3/6/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
12Y-100-WS-C1	3/7/91	3/6/91	.29	94	<1	soil	A
12Y-100-WS-C2			.83	92	<1	soil	
12Y-100-WS-C3					2.8	asphalt	
9B-SLS-C1			.49	88	<1	soil	
9B-SLS-C2			.21	89	<1	soil	
9B-SLS-C3					<1	concrete	
9B-SLS-C4					<1	concrete	
9B-SLS-C5					<1	asphalt	
A) Reagent Blank 2:					<1		
Matrix Spike 9B-SLS-C1:					2.4/4 =	60%	

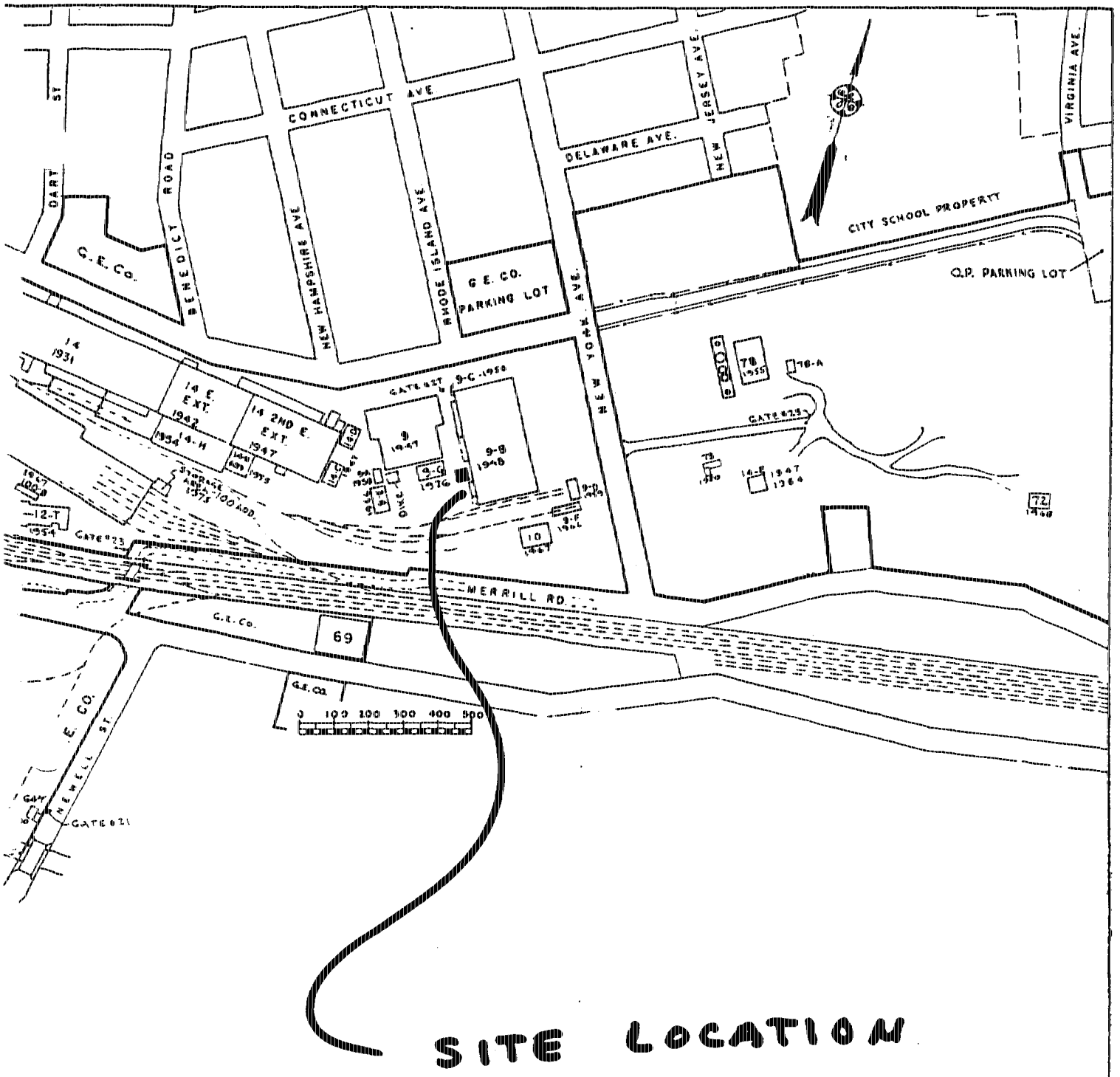
Comments:

Certification No.:

Units: ug/g = ppm

Authorized:

Date:



SITE LOCATION

PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1985

SCALE 1" = 200'

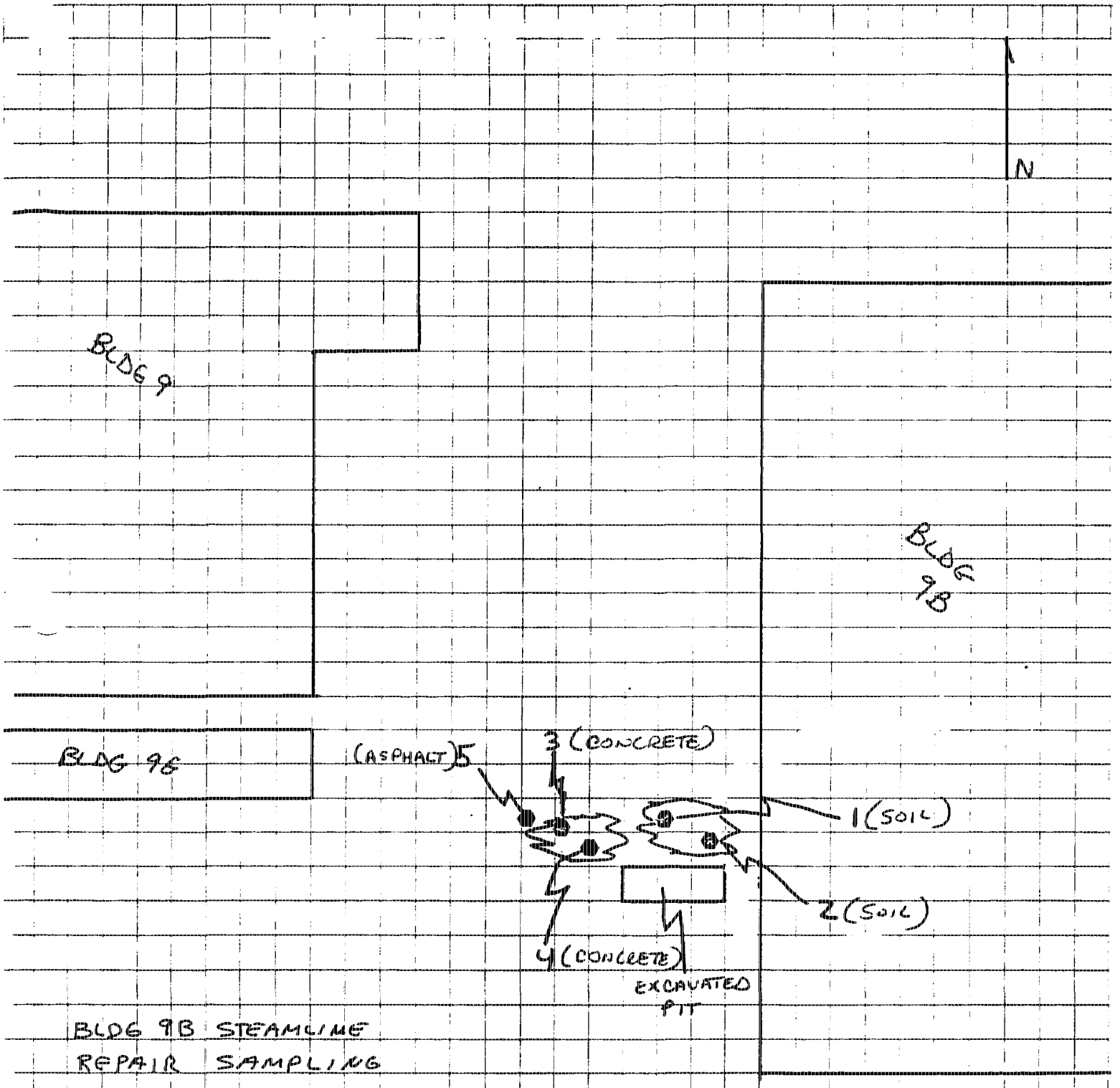
DWG. NO. 6600

APPROVED 1/5/15

F5 P15 E3

BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG 9B STEAMLINE REPAIR SAMPLING	101-75-01	JJH	3-6-91	1 of 1



BLDG 9B STEAMLINE
REPAIR SAMPLING
101-75-01

● - SAMPLE LOCATION

SOIL PILE	6' x 6' x 3' = 4 CU YDS
CONCRETE PILE	4' x 5' x 1'6" = 1.1 CU YDS
ASPHALT	1 PC 1' x 2' x 3"

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

9B STEAMLINE REPAIR SAMPLING

DATE: 3-6-91
OPERATOR: J HASSETT - A. PEART
CALIBRATION DATE: 3-6-91 48 PPM @ 9.8 SPAN

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
LOC 1	12	10	11
LOC 2	40	30	35

APPENDIX L, SECTION 2

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ NO.	BY	DATE	SHEET
BLDG. 10 STEAMLINE REPAIR SAMPLING	101-75-01	HE	4/8/91	

Request for Sampling

Date: 3-21-91

Initiator: Bob Pensivy

BLDG Location: Outside Bldg. 10

Contact Person Bob Pensivy Ext 5951

Item Description

1) Soil, Wood (RR Tie)

2) Concrete, Asphalt

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

1) Soil, concrete, asphalt and wood (RR tie) to be analyzed for P.C.B's method 8080.

2) PID readings to be taken on Soil.

Sampling program was conducted on a discrete grab and core sample basis.

DELIVERED TO GRANT BOWMAN (GE) 4-11-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 10 Steamline Repair Sampling

Date: 3-27-91
File No: 101-75-01
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling program conducted outside Bldg 10. 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	SAMPLE DATE
10-SLR-C1	<1.0	1	SOIL	DISCRETE-GRAB	0'-2'	3-21-91
10-SLR-C2	<1.0	2	SOIL	DISCRETE-GRAB	0'-2'	3-21-91
10-SLR-C3	<1.0	3	SOIL	DISCRETE-GRAB	0'-2'	3-21-91
10-SLR-C4	<1.0	4	CONCRETE	DISCRETE-CORE	0"-6"	3-22-91
10-SLR-C5	<1.0	5	CONCRETE	DISCRETE-CORE	0"-6"	3-22-91
10-SLR-C6	<1.0	6	CONCRETE	DISCRETE-CORE	0"-6"	3-22-91
10-SLR-C7	<1.0	7	ASPHALT	DISCRETE-GRAB	0"-2"	3-21-91
10-SLR-C8	<1.0	8	ASPHALT	DISCRETE-GRAB	0"-2"	3-21-91
10-SLR-C9	6.9	9	WOOD (RR TIE)	DISCRETE-CORE	0"-1"	3-22-91

jjh

2175

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-01

Date Analyzed 3/25→3/26/91 DATE COLLECTED See Below DATE RECEIVED 3/22/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
10-SLR-C1	3/22→25/91	3/21→22/91	.18	92	(.195) < 1	soil	A
-C2			.33	93	(.247) < 1	↓	
-C3			.51	93	(.548) < 1	↓	
-C4					< 1	concrete	
-C5					< 1	↓	
-C6					< 1	↓	
-C7					< 1	asphalt	
-C8					< 1	↓	
-C9			35	51	6.9	wood	
A) Reagent Blank 1:					< 1		
Matrix Spike 10-SLR-C1:					.37/.35 = 106%		
Matrix Spike Duplicate:					.37/.35 = 106%		
Precision:					.37 vs .37 = 0% RPD		

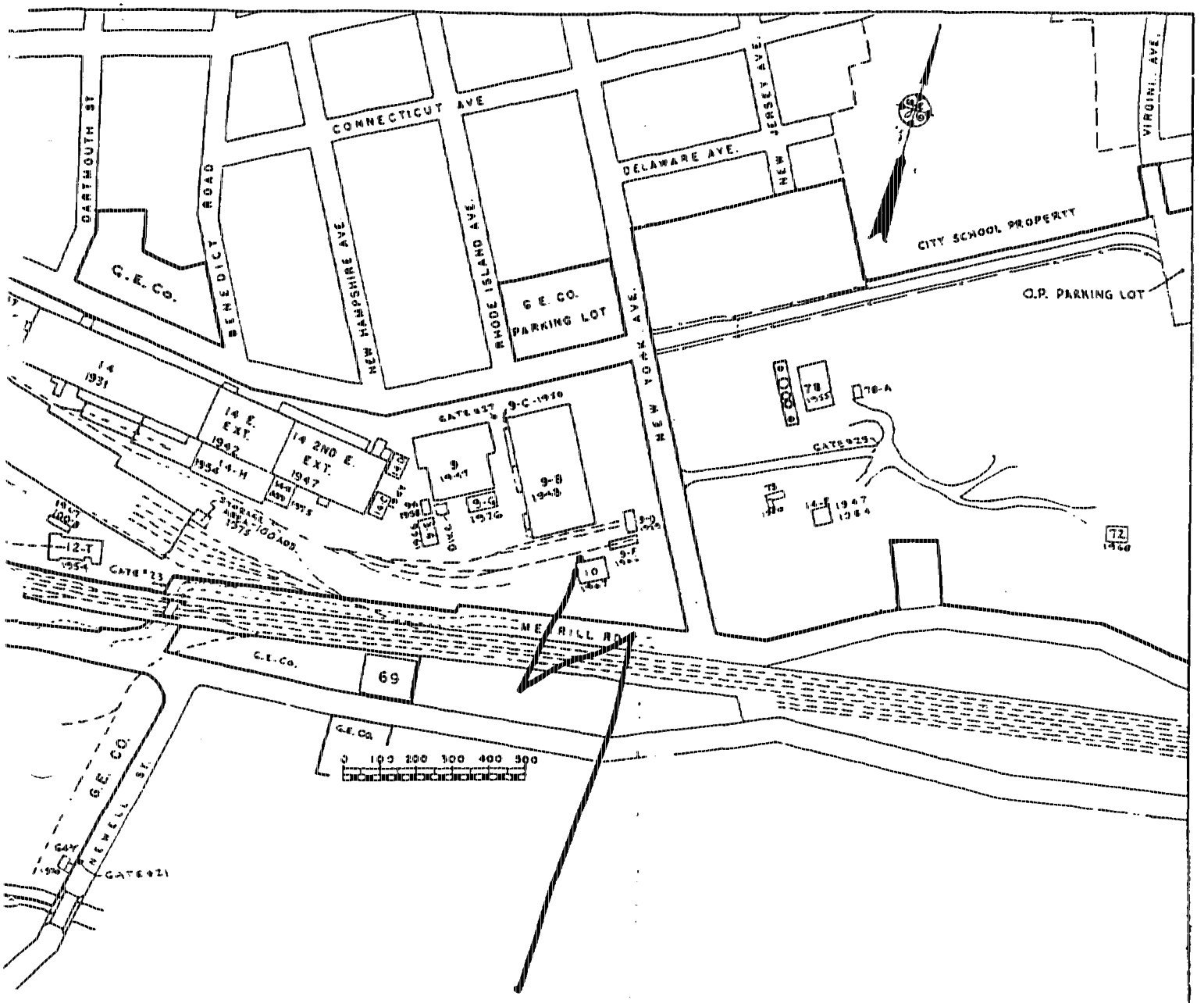
Comments:

Certification No.:

Units: ug/g = ppm

Authorized:

Date:



SITE LOCATION

PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1985

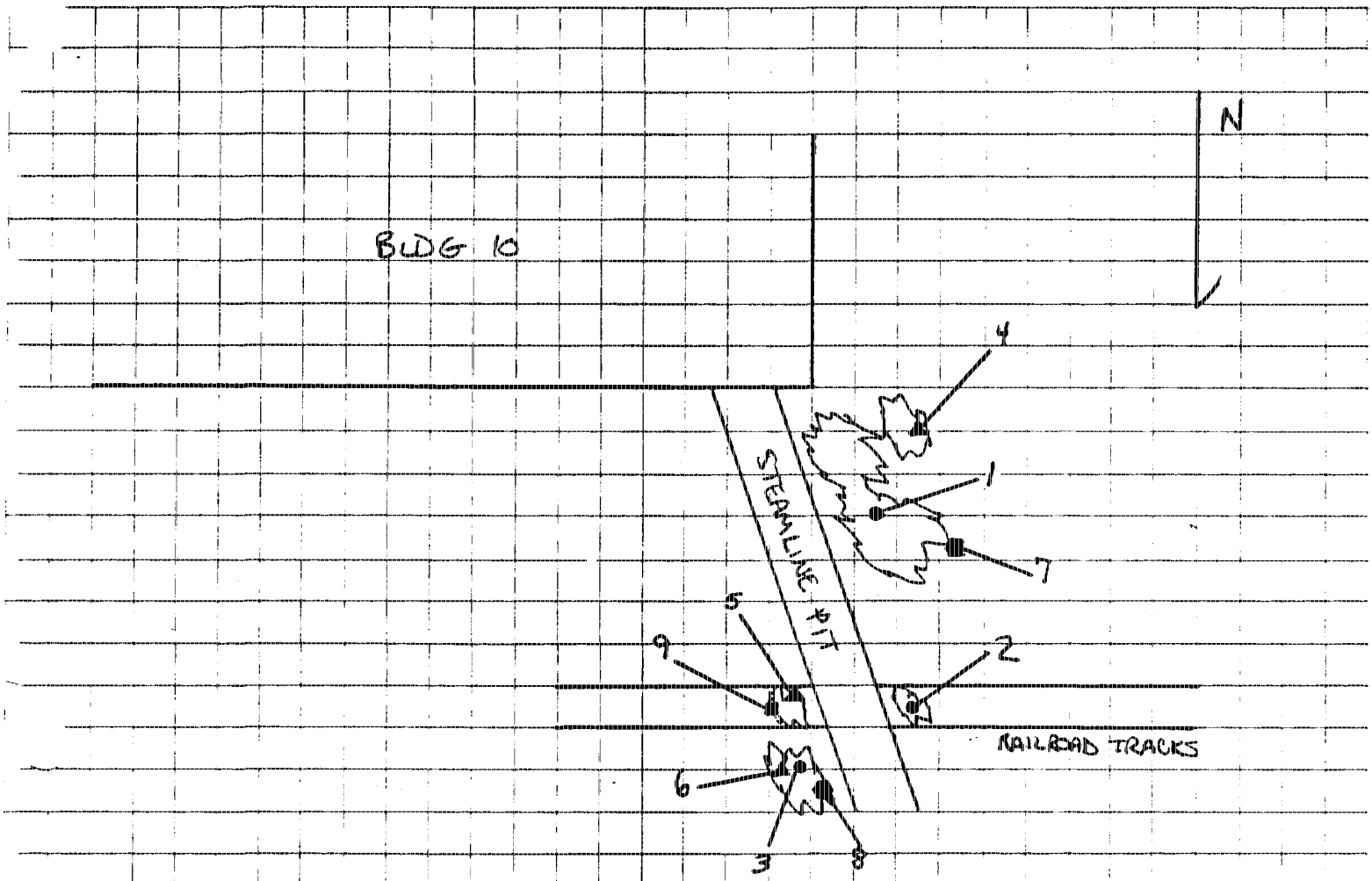
SCALE 1" = 200' DWG. NO. 6600

APPROVED 1/15/15

F5 P15 B

BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG 10 STEAMLINE REPAIR SAMPLING	101-51-05	JJH	3-22-91	1 of 1



- SOIL
- CONCRETE
- ASPHALT
- WOOD

HNU CALIBRATION

DATE: 3-6-91
OPERATOR: JIM HASSETT

HNU SERIAL NO: AJ0127
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 55 ppm

INITIAL READING: 9.8 span setting @ 48 ppm

ADJUSTED SETTING: 8.6 span setting @ 55 ppm

NOTES:

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

BLDG 10 STEAMLINE REPAIR SAMPLING

DATE: 3-21-91
OPERATOR: JIM HASSETT

CALIBRATION DATE 3-6-91 8.6 span @ 55 ppm

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
1	.01	.01	.01
2	.02	.01	.015
3	.01	.01	.01

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 10 STEAMLINE REPAIR EXTENSION SAMP.	101-75-01	HE	6-3-91	

Request for Sampling

Date: 5-6-91

Initiator: Aimee Cole (Goldman Assoc.)

BLDG Location: Outside Bldg 10

Contact Person Aimee Cole Ext 2534

Item Description

1) Soil

2) Asphalt, Concrete

Notes: The following sampling criteria was implemented at the request of Aimee Cole (G.A.)
1.) Soil from extension of Bldg. 10 Steamline repair to be sampled for P.C.B's method 8080 and PID reading to be taken on soil. If PID reading is >10 ppm. Soil to be sampled for VOC's method 8240.
2.) Asphalt and concrete to be sampled for P.C.B.'s method 8080. Sampling program was conducted on a discrete grab sample basis.

DELIVERED TO GRANT BOWMAN (GE) 6-11-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 10 Steamline Repair Extension Sampling

Date: 5-28-91
File No: 101-75-01
cc: Grant Bowman (GE)

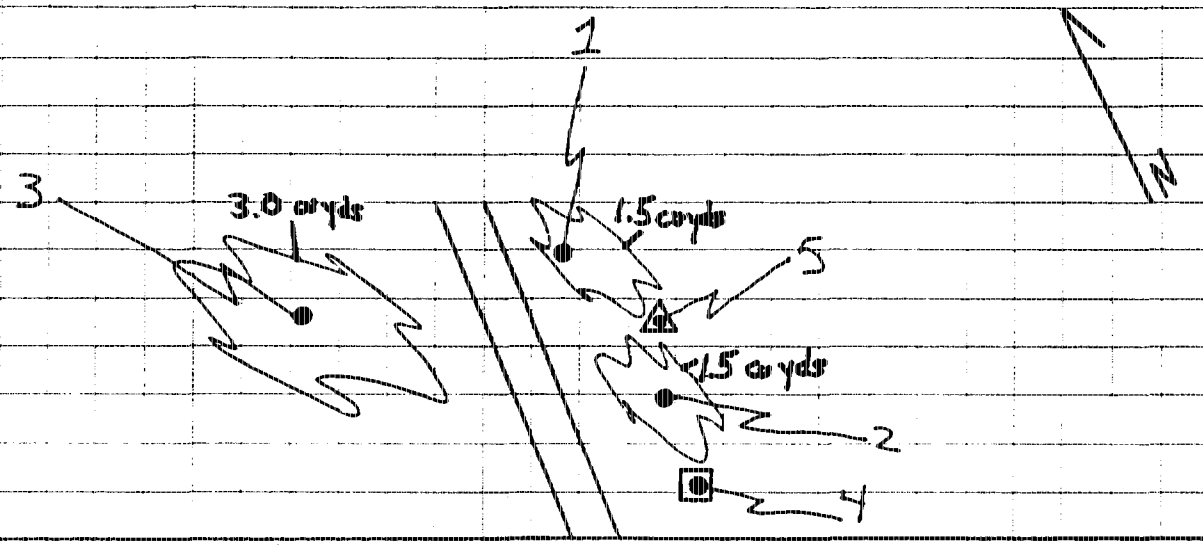
The following is a summary of the sample results for the PCB sampling program conducted outside Bldg 10 on 5-10-91. A drawing showing the sample location is attached (see figure 1). An analytical Report provided by OBG Laboratories has also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
10-SLRE-C1	2.9	1	SOIL	DISCRETE-GRAB	0-2'
10-SLRE-C2	<1.0	2	SOIL	DISCRETE-GRAB	0-2'
10-SLRE-C3	<1.0	3	SOIL	DISCRETE-GRAB	0-2'
10-SLRE-C4	<1.0	4	ASPHALT	DISCRETE-GRAB	0-2"
10-SLRE-C5	<1.0	5	CONCRETE	DISCRETE-GRAB	0-5"

BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG 10 STEAMLINE REPAIR EXTENSION SAMPLING	101-75-01	JJH	5-10-91	1 of 1



DG 10 STEAMLINE REPAIR EXTENSION SAMP
101-75-01

LEGEND
- ● - SAMPLE LOCATION
- SOIL PILE
- □ - ASPHALT
- △ - CONCRETE

BLDG 10

2285

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-01

Date Analyzed 5/14/91 DATE COLLECTED See Below DATE RECEIVED 5/10/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
10-SLRE-C1	5/13/91	5/10/91	2.7	93	2.9	soil	A
-C2			<1 (.791)	94	<1		
-C3			<1 (.836)	93	<1		
-C4					<1	asphalt	
-C5					<1	concrete	
A) Reagent Blank 1:					<1		
Matrix Spike - 10-SLRE-C2					*		
Matrix Spike Duplicate:					*		
Precision:					*		

Comments: * Unable to calculate due to matrix interference. 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

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

BLDG. 10 STEAMLINE REPAIR EXTENSION SAMPLING

DATE: 5-10-91
OPERATOR:

CALIBRATION: DATE: 5-9-91
BY: JIM HASSETT

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
ONE	8.2	7.0	7.6
TWO	6.8	6.2	6.5
THREE	4.4	5.0	4.7

HNU CALIBRATION

BLDG 10 STEAMLINE REPAIR EXTENSION SAMPLING

DATE: 5-9-91
OPERATOR: JIM HASSETT

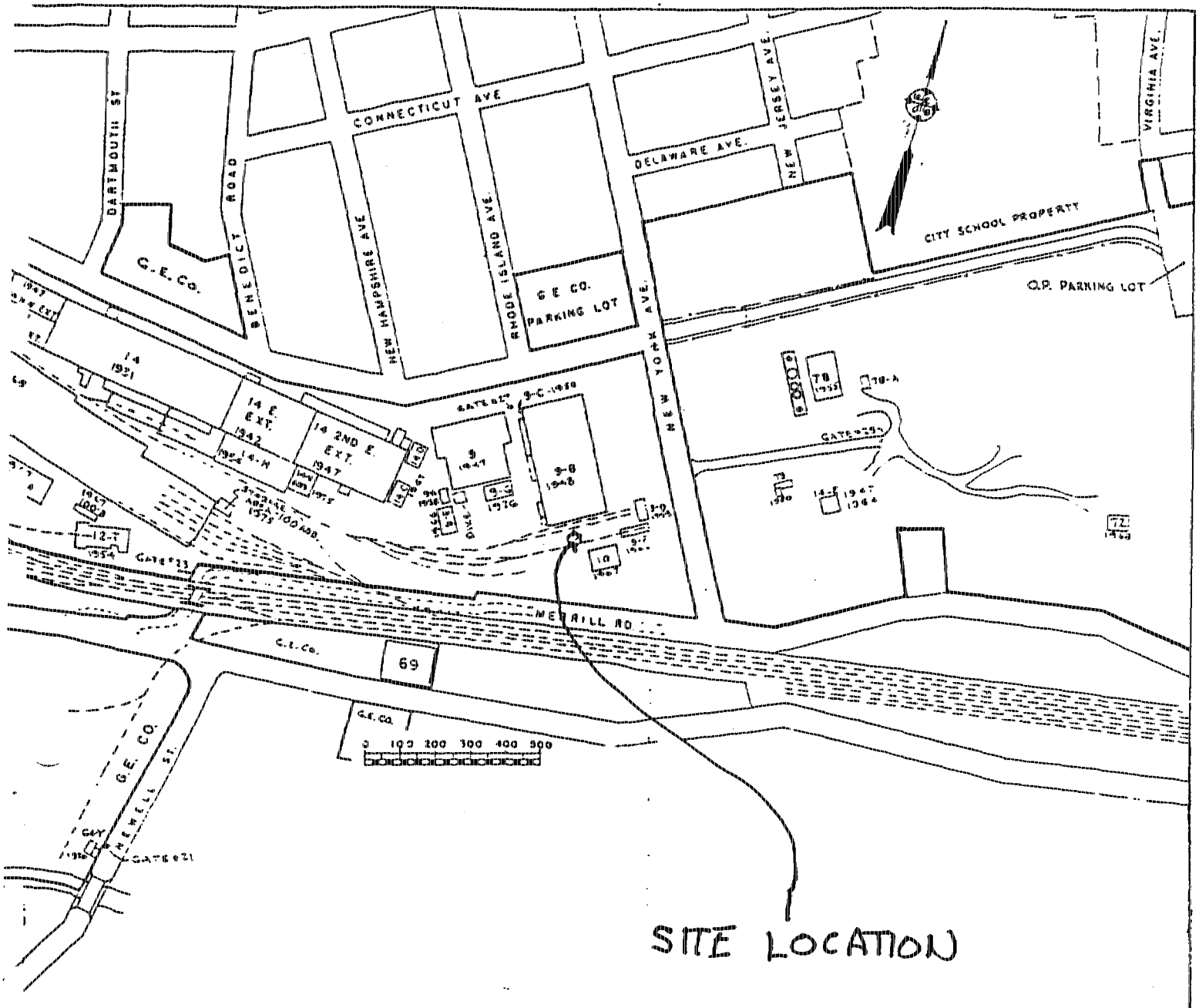
HNU SERIAL NO: A70129
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 55 ppm

INITIAL READING: 9.8 span setting @ 42 ppm

ADJUSTED SETTING: 7.26 span setting @ 55 ppm

NOTES:



PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1985

SCALE 1"=200' DWG. NO. 6600

APPROVED _____ 11/5/85

F5 P15 E5

BLASLAND & BOUCK ENGINEERS P.C.

SUBJECT: BLDG 10 (Outside) Pad Soil Sampling

PROJECT NO: 101-75-22

BY: S E Melbourne

DATE: 8-27-91

REQUEST FOR SAMPLING

DATE: 8-15-91

INITIATOR: Pete Woicik (GE)

BLDG. LOCATION: BLDG 10 Pad (Outside)

CONTACT PERSON: Pete Woicik EXT: 5320

ITEM DESCRIPTION:

1.) Soil

NOTES:

The following sampling criteria was implemented at the request of Pete Woicik (GE):

1.) Two soil piles approximately 3 cubic yards and 8 cubic yards to be sampled for PCB's Method 8080, TPH's Method 1418.1 and P.I.D. readings to be taken. If P.I.D. readings are >10 PPM soil to be sampled for VOC's Method 8240 and Semi-Volatiles Method 8270.

Sampling program was conducted on a discrete grab sample basis.

DELIVERED TO
GRANT BOWMAN (GE)
10-15-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 10 (Outside) Pad Soil Sampling

Date: 10-1-91
File No: 101-75-22
cc: Grant Bowman (GE)
Pete Wojcik (GE)

The following is a summary of the sample results for the PCP and TPH sampling program conducted outside Bldg 10 on 8-20-91. 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
10-PD-C1	(1.5)	1	SOIL	DISCRETE-GRAB	0"- 15"
10-PD-C2	1.7	2	SOIL	DISCRETE-GRAB	15"- 30"
10-PD-C3	1.5	3	SOIL	DISCRETE-GRAB	30"- 42"
10-PD-C7	1.9	4	SOIL	DISCRETE-GRAB	0"- 16"
10-PD-C8	(8.0)	5	SOIL	DISCRETE-GRAB	16"- 32"
10-PD-C9	1.6	6	SOIL	DISCRETE-GRAB	32"- 48"

TOTAL TPH SAMPLING RESULTS METHOD 1418.1

LAB ID	TOTAL TPH PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
10-PD-C4	<100.0	1	SOIL	DISCRETE-GRAB	0"- 15"
10-PD-C5	<100.0	2	SOIL	DISCRETE-GRAB	15"- 30"
10-PD-C6	<100.0	3	SOIL	DISCRETE-GRAB	30"- 42"
10-PD-C10	<100.0	4	SOIL	DISCRETE-GRAB	0"- 16"
10-PD-C11	300.0	5	SOIL	DISCRETE-GRAB	16"- 32"
10-PD-C12	210.0	6	SOIL	DISCRETE-GRAB	32"- 48"

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION Outside Bldg. 10(Pad) Soil Pile Sampling B & B # 101.75.22

MATRIX: Solid

DAte Analyzed 8-26-91 DATE COLLECTED 8-20-91 DATE RECEIVED 8-21-91

	Sample #	PCB	Aroclor	TOTAL PETROLEUM HYDRO-CARBONS*	PERCENT TOTAL SOLIDS
10-PD-C1	N0442	1.5	1260	-	93.
10-PD-C2	N0443	1.7	1260	-	92.
10-PD-C3	N0444	1.5	1260	-	92.
10-PD-C4	N0445	-	-	<100.	92.
10-PD-C5	N0446	-	-	<100.	93.
10-PD-C6	N0447	-	-	<100.	88.
10-PD-C7	N0448	1.9	1260	-	92.
10-PD-C8	N0449	8.0	1260	-	93.
10-PD-C9	N0450	1.6	1260	-	92.
10-PD-C10	N0451	-	-	<100.	93.
10-PD-C11	N0452	-	-	300.	94.
10-PD-C12	N0453	-	-	210.	91.

Comments: *By IR Spectrophotometry.

Certification No.: NY034

Units: mg/kg dry weight

Authorized:

Date: September 16, 1991

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

BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
OUTSIDE BLDG. 10-1 PAD (SOUTH EAST & SOUTH WEST CORNERS) SOIL SAMPLING	101.75.22	AGP	8-19-91	1 of 1

NOT TO SCALE

FIGURE #1

OUTSIDE BLDG. 10-1 PAD
(SOUTH EAST & SOUTH WEST CORNERS)
SOIL SAMPLING

NOTES:

PILE #1 IS APPROX. 6'x6'x 2½' DEEP = 3.33 YDS.
PILE #2 IS APPROX. 9'x6'x 4' DEEP = 8 Cu. Yds.
● — DENOTES SAMPLE LOCATION

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING
OUTSIDE BLDG. 10 PAD (SOUTH EAST / SOUTH WEST CORNERS)
SOIL SAMPLING
101.75.22

DATE: 8-20-91
OPERATOR: AL PEART

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
1	4.0	4.2	4.1
2	3.8	3.8	3.8
3	2.6	1.8	2.2
4	1.0	1.6	1.3
5	1.2	1.6	1.4
6	1.8	1.8	1.8

HNU CALIBRATION

OUTSIDE BLDG. 10 PAD (SOUTH EAST & SOUTH WEST CORNERS)
SOIL SAMPLING
101.75.22

DATE: 8-20-91
OPERATOR: AL PEART

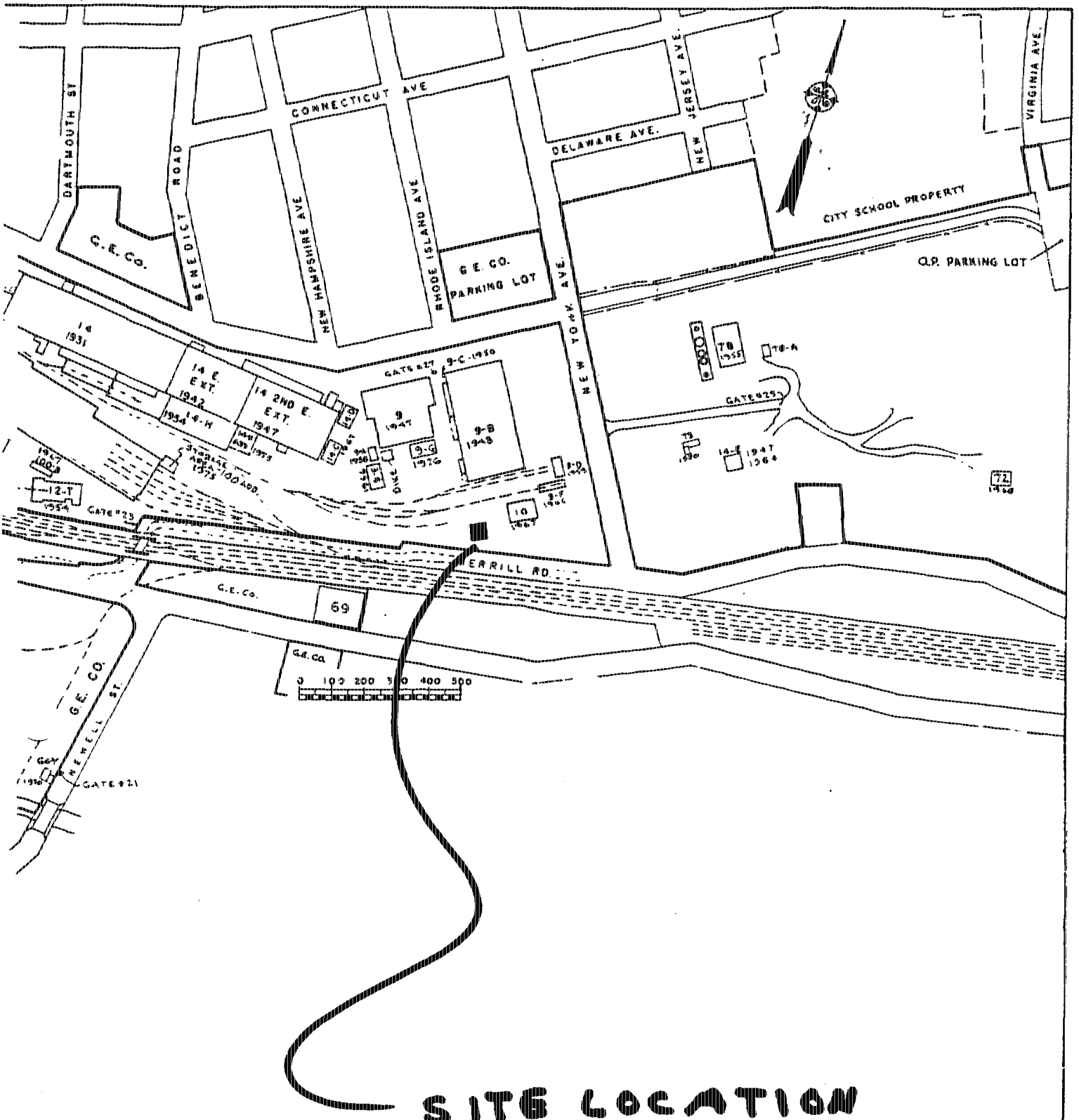
HNU SERIAL NO: A 70129
eV OF PROBE: 10.2

CALIBRATION GAS: 9.80 span setting @ 55 ppm

INITIAL READING: 9.80 span setting @ 55 ppm

ADJUSTED SETTING: — span setting @ — ppm

NOTES:



SITE LOCATION

PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1985

SCALE 1" = 200' DWG. NO. 6600

APPROVED _____ 11/5/15

F5 P15 B

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75.22

PROJECT NAME: OUTSIDE BLDG. 10 (PAD) SOIL PILE SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB's METHOD 8080	TOTAL TPH 418.1					REMARKS
10-PD-C1		8-20	11:00		X	X			1	X						SEND RESULTS TO:
10-PD-C2		8-20	11:10		X	X			1	X						BRUCE EULIAN
10-PD-C3		8-20	11:30		X	X			1	X						BLASLAND & BOUCK ENG.
10-PD-C4		8-20	11:35		X	X			1		X					% G.E. POWER TRANSFORMER
10-PD-C5		8-20	11:40		X	X			1		X					MAILCODE: D-32
10-PD-C6		8-20	11:45		X	X			1		X					100 WOODLAWN AVE.
10-PD-C7		8-20	11:50		X	X			1	X						PITTSFIELD, MA. 01201
10-PD-C8		8-20	11:55		X	X			1	X						
10-PD-C9		8-20	12:00		X	X			1	X						CC: ROBERT RHOADES
10-PD-C10		8-20	12:05		X	X			1		X					BLASLAND & BOUCK ENG.
10-PD-C11		8-20	12:10		X	X			1		X					6723 TOWPATH RD.
10-PD-C12		8-20	12:15		X	X			1		X					SYRACUSE, N.Y. 13214

SAMPLED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
O. H. Peart Jr.	8-20-91	11:00 TO 12:15					
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	
						NORMAL TURN AROUND FEDEREL EXPRESS AIRBILL # 3062323342	

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

TO: FILES DATE: 11-4-92

FROM: BRUCE EULIAN FILE NO: 101.75.01

RE: BLDG 10 (outside) Tank Sampling (UST-10-01)

INITIATOR: Grant Bowman (GE)

DATE: 6-5-92

BLDG. LOCATION: BLDG 10-1 (outside)

CONTACT PERSON: Paul Houle (GE) EXT: 2176

ITEM DESCRIPTION:

1.) Water

PURPOSE: To collect samples for GE to gather information on the water that is located in UST 10-01 outside of BLDG 10.

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

1.) Two discrete-grab samples of the water located in UST 10-01 outside of BLDG 10 is to be collected and analyzed for PCB's Method 8080 also, four discrete-grab samples of water is to be collected and analyzed for total Oil/Grease.

DELIVERED TO
AIMEE COLE (GE)
11-6-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: BLDG 10 (outside) Tank Sampling (UST 10-01)

Date: 11-4-92
File No: 101.75.01
cc: Grant Bowman (GE)
Paul Houle (GE)

The following is a summary of the sampling program conducted on 6-5-92, 6-9-92, 6-12-92 and 6-17-92 on the water that was collected from UST 10-01 located outside BLDG 10.

At the request of Grant Bowman (GE), the following sampling program was implemented:

6-5-92

1 discrete grab sample was collected and analyzed for PCB's Method 8080 and 1 discrete grab sample was collected and analyzed for Total Oil & Grease.

6-9-92

1 discrete grab sample was collected and analyzed for PCB's Method 8080 and 1 discrete grab sample was collected and analyzed for Total Oil & Grease.

6-12-92

1 discrete grab sample was collected and analyzed for Total Oil & Grease.

6-17-92

1 discrete grab sample was collected and analyzed for Total Oil & Grease.

A summary table of the sampling program results has been provided (Table 1), including drawings showing the site location (Figure 1) and sample location (Figure 2). Analytical reports provided by the Pittsfield GE Lab has also been included (Attachment 1).

BLDG 10 (outside) Tank Sampling (UST 10-01)
101.75.01

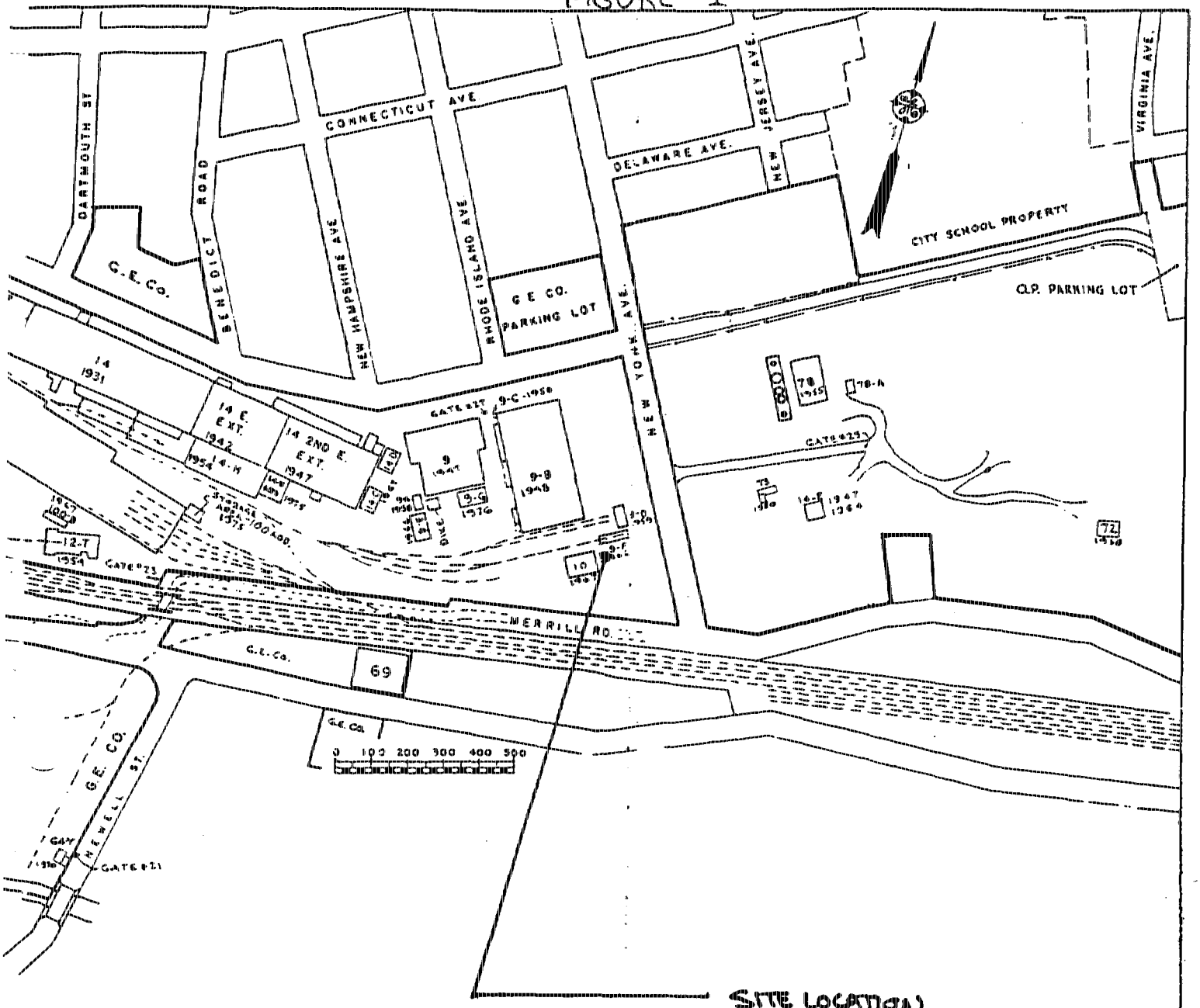
Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	DATE SAMPLED	TOTAL PCB PPB	TOTAL OIL/GREASE	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
10-TANK-C1	06-05-92	1.7	NONE	1	WATER	DISCRETE-GRAB	8'
10-TANK-C2	06-05-92	NONE	SEE GE LAB REPORT	1	WATER	DISCRETE-GRAB	8'
10-TANK-C3	06-09-92	2.1	NONE	1	WATER	DISCRETE-GRAB	10'
NK-C4	06-09-92	NONE	SEE GE LAB REPORT	1	WATER	DISCRETE-GRAB	10'
10-TANK-C5	06-12-92	NONE	SEE GE LAB REPORT	1	WATER	DISCRETE-GRAB	10'
10-TANK-C6	06-17-92	NONE	SEE GE LAB REPORT	1	WATER	DISCRETE-GRAB	SEE NOTE

NOTE: WATER WAS PUMPED FROM THE UST TO A HOLDING TANK, SAMPLE WAS THEN COLLECTED FROM A VALVE LOCATED AT THE BOTTOM OF THE HOLDING TANK.

FIGURE # 1



SITE LOCATION

BLDG 10-1 (OUTSIDE) TANK SAMPLING

PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1985

SCALE 1"= 200' DWG. NO. 6600

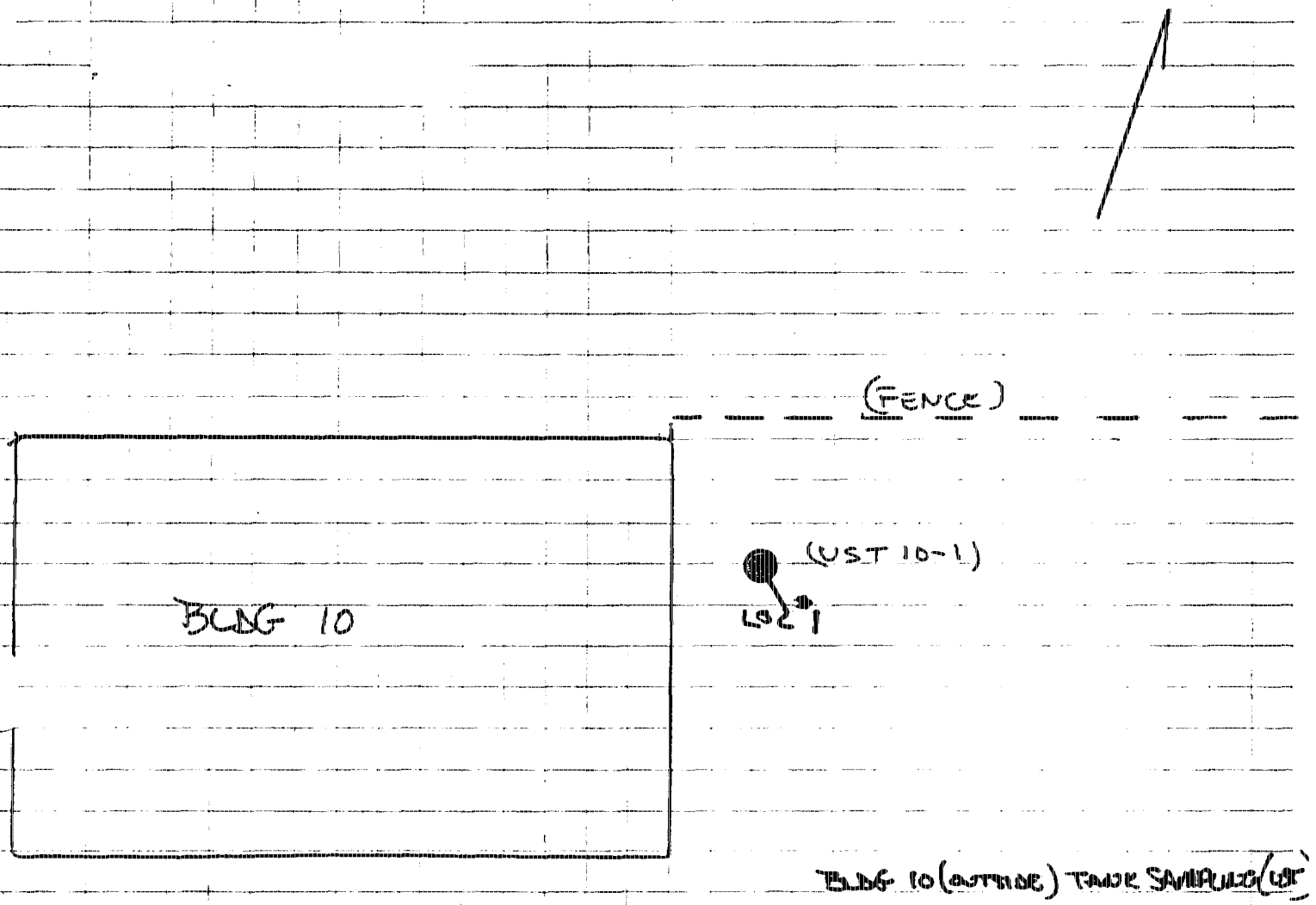
APPROVED 11/5/15

F5 P15 F3

BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG 10 (OUTSIDE) TANK SAMPLING (UST)	101.95.01	JJH	6/5/92	1 of 1

FIGURE #2



BLDG 10 (OUTSIDE) TANK SAMPLING (UST)

LEGEND

● - SAMPLE LOCATION (UST)

* NOT TO SCALE

ATTACHMENT 1

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

LOG NUMBER: P5154

DATE: 6-7-92

REQUESTED BY: P Hauie

SAMPLE IDENTIFICATION	Specific Gravity	Total Chlorine	PCB Concentration
10-TK-C1 6/5/92			1.7 ug/L

COMMENTS: Bldg 10 Tank 10-75-01
water sample
1 ug/L = 1 PPB

REPORT BY: JS Nicholson DATE: _____ APPROVED: _____

DISTRIBUTION: Requestor
Laboratory File

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

LOG NUMBER: P-5158 DATE: 6-10-92

REQUESTED BY: P. Houle

SAMPLE IDENTIFICATION	Specific Gravity	Total Chlorine	PCB Concentration
10-Tank - C3 (water) 6/9/92			2.1 ug/L

COMMENTS: 2nd Sample of water from Bldg 10 Tank
1 ug/L = 1 PPB

REPORT BY: JS Nicholson DATE: _____ APPROVED: _____

DISTRIBUTION: Requestor
Laboratory File

TR 92032
10/20/92

E N V I R O N M E N T A L L A B O R A T O R Y

**** TEST REPORT ****

SUBJECT: TANK #10 OIL AND GREASE SAMPLES
REQUESTOR: P. HOULE
TEST(S) BY P.F. JAHN, 11-250, G56, x5961
REPORT BY G.J. DESNOYERS, 11-331, C23, x4351
BOOK 9004, PAGE(S) 114/115/117

OBJECT:
OIL AND GREASE CONCENTRATIONS

SAMPLE ID:
1 10-TANK-C2 GRAB TAKEN 6/5/92 AT 10:05 AM
2 10-TANK-C4 GRAB TAKEN 6/9/92 AT 10:45 AM
3 10-TANK-C5 GRAB TAKEN 6/12/92 AT 2:30 PM
4 10-TANK-C6 GRAB TAKEN 6/17/92 AT 8:15 AM

METHODS:
FREON EXTRACTION AND GRAVIMETRY

RESULTS:

		MG/L OIL & GREASE
1	10-TANK-C2	2,240
2	10-TANK-C4	378
3	10-TANK-C5	NOT ANALYZED*
4	10-TANK-C6	2.8

*SAMPLE 10-TANK-C5 NOT ANALYZED PER INSTRUCTIONS FROM P. HOULE (GE). SAMPLE REPLACED BY NEW SAMPLE 10-TANK-C6.

DISTRIBUTION:
P. HOULE, G56;
G.J. DESNOYERS, C23;
W.A. FESSLER, C23.

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75.01
PROJECT NAME: BLDG 10 (OUTSIDE) OVERFLOW TANK SAMPLING (UST)

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB'S (METHOD 8080)	TOTAL OIL & GREASE				REMARKS
10-TANK-C1		6/5/92	1000		X			X	1	X					
10-TANK-C2		6/5/92	1005		X			X	1		X				
															SAMPLED PER PAUL HOULE (GE)

SAMPLED BY: (SIGNATURE) [signature]	DATE/TIME: 6/5/92 1030 1625	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE) [signature]	DATE/TIME: 6/5/92 1011	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) [signature]	DATE/TIME: 6/6/92 10 15 AM	REMARKS: SENT TO PITTSFIELD GE LAB	

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Towpath Road, Box 66
Syracuse, New York 13214-0066 (315) 446-9120
FAX: (315) 449-0017

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75.01

PROJECT NAME: BLDG 10 (OUTSIDE) OVERFLOW TANK SAMPLING (UST)

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TCLP'S METHOD 8260	TOTAL OIL/GREASE					REMARKS
10-TANK-C3		6/9/92	1040		X			X	1	X						
D-TANK-C4		6/9/92	1045		X			X			X					
																SAMPLED PER PAUL HOULE (GE)

SAMPLED BY: (SIGNATURE)	DATE/TIME 6/9/92 1040 + 1045	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME 6/9/92 1105 — RECEIVED BY: (SIGNATURE) J Nicholson 6/9/92 11:05AM
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: SENT TO PITTSFIELD GE LAB

BLASLAND & BOUCK ENGINEERS, P.C.

6723 Towpath Road, Box 66
Syracuse, New York 13214-0066 (315) 446-9120
FAX: (315) 449-0017

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75:01

PROJECT NAME: BLDG 10 (OUTSIDE) OVERFLOW TANK SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TOTAL OIL & GREASE	REMARKS
10-TANK-CS		6/12/92	14:30		✓			✓	2	X	

SAMPLES DISCARDED WITHOUT ANALYSIS, NEW SAMALE REC'D. 6/17/92.

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Michael J Stevens	6-12-92 14:30				
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	
Michael J Stevens	6-12-92 1440	GJ Deangelo	6/12/92 14:30	SENT TO GE LAB PITTSFIELD	

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Towpath Road, Box 66
Syracuse, New York 13214-0066 (315) 446-9120
FAX: (315) 449-0017

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75-01
PROJECT NAME: BLDG 10 (OUTSIDE) OVERFLOW TANK SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TOTAL VOC 624/625						REMARKS
10-TANK-C5		6/12/92	14:30		✓			✓	2	X						Sampled for Paul Houle

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Michael L Stinson	6-12-92 14:30				
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	
Michael L Stinson	6-12-92 14:30	GJ Desmarais	6/12/92 14:30	SENT TO GE LAB PITTSFIELD	

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Towpath Road, Box 66
Syracuse, New York 13214-0066 (315) 446-9120
FAX: (315) 449-0017

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75.01 | PROJECT NAME: BLDG 10 (OUTSIDE) TANK SAMPLING (UST)

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TOTAL OIL + GREASE					REMARKS
10-TANK-CC		4/17/92	0815		X			X	1	X					
															SAMPLED PER PAUL HOLE (GE)

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	4/17/92 0815		[signature]	4/17/92 0830 hrs	[signature] 4/17/92
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	
				SENT TO PITTSFIELD GE LAB	

BLASLAND, BOUCK & LEE, INC.

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: UST 10-01 Sampling Program

DATE: June 14, 1994
FILE NO.: 201.31.02

INITIATOR: Pete Wojcik (GE)

DATE: 6-6-94 To 6-9-94

LOCATION: Bldg. 10 (Outside East End) - (Photos available in Pittsfield files)

CONTACT PERSON: Pete Wojcik (GE) **EXT:** 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collect samples for GE to determine the proper disposal method of the soil that was generated during the UST 10-01 excavation, located outside the east end of Bldg. 10.

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

1.) Fifteen (15) discrete-grab samples of soil are to be collected and analyzed for PCB's (Method 8080) and TPH (Method 418). Also, One (1) field-composite soil sample is to be collected and analyzed for TCLP (Metals Only).

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

3.) If the PID readings are ≥ 10, the samples are to be analyzed for VOCs (Method 8240) .

4.) GE requests that the PCB samples collected be analyzed by OBG Laboratory, Pittsfield, MA and the TPH and TCLP samples collected be analyzed at the Syracuse, NY OBG Laboratory.

DELIVERED TO
GRANT BOWMAN (GE)
6-28-94

BLASLAND, BOUCK & LEE, INC.

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: UST 10-01 Sampling Program

DATE: June 14, 1994
FILE NO.: 201.31.02
cc: Grant Bowman (GE)
Pete Wojcik (GE)

The following is a summary of the sampling program conducted on 6-6-94 to 6-9-94 on the soil that was generated during the UST 10-01 excavation located outside the east end of Bldg 10.

At the request of Pete Wojcik (GE) the following sampling program was implemented:

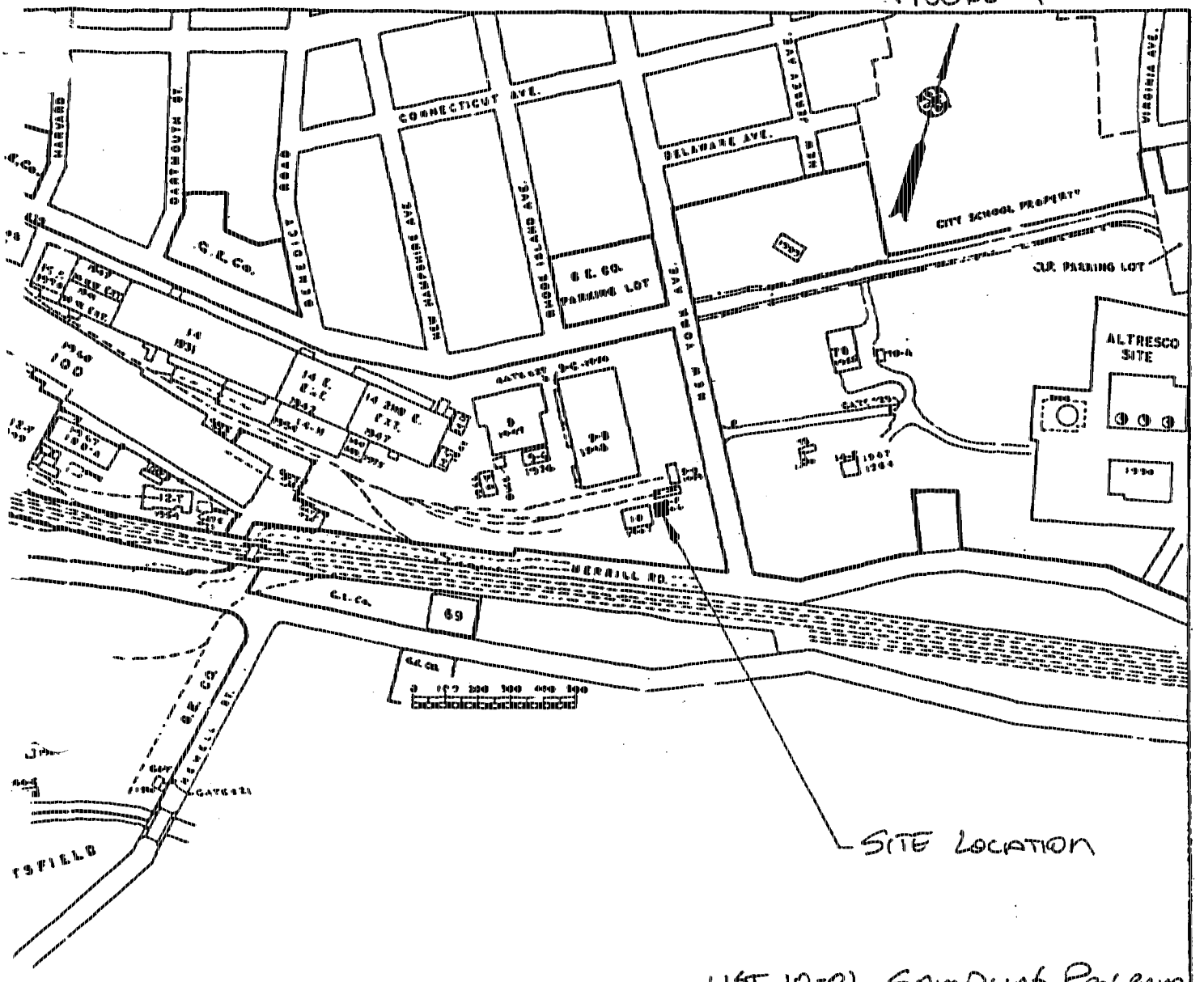
- Fifteen (15) discrete-grab samples of soil (8 oz. glass jars) were collected and analyzed for PCBs (Method 8080).
- One (1) field-composite sample of the soil ((1) quart glass jar with Teflon® lid) was collected and analyzed for TCLP (Metals Only).

Note:

The PCB samples were analyzed at the Pittsfield, MA OBG Laboratory and the TPH and TCLP samples were analyzed at the Syracuse, NY OBG Laboratory.
The PCB soil samples were screened with a calibrated Photoionization Detector (PID) and were found to be < 10, therefore, no Volatile Organic Compounds (VOCs) Method 8240 analysis was 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). Preliminary analytical reports provided by OBG Laboratories (Attachment 1), PID calibration forms (Attachment 2), PID head space screening results sheets (Attachment 3) and copies of the chains of custody that accompanied these samples (Attachment 4) are also included.

Figure #1



UST-10-01 Sampling Program
(201-31-02)

PITTSFIELD WORKS
GE
GROUND PLAN
SHEET-1
CORRECTED TO JAN. 1, 1992
SCALE 1" = 200' DWG NO. 6800
APPROVED W.C.G. 1/5/92

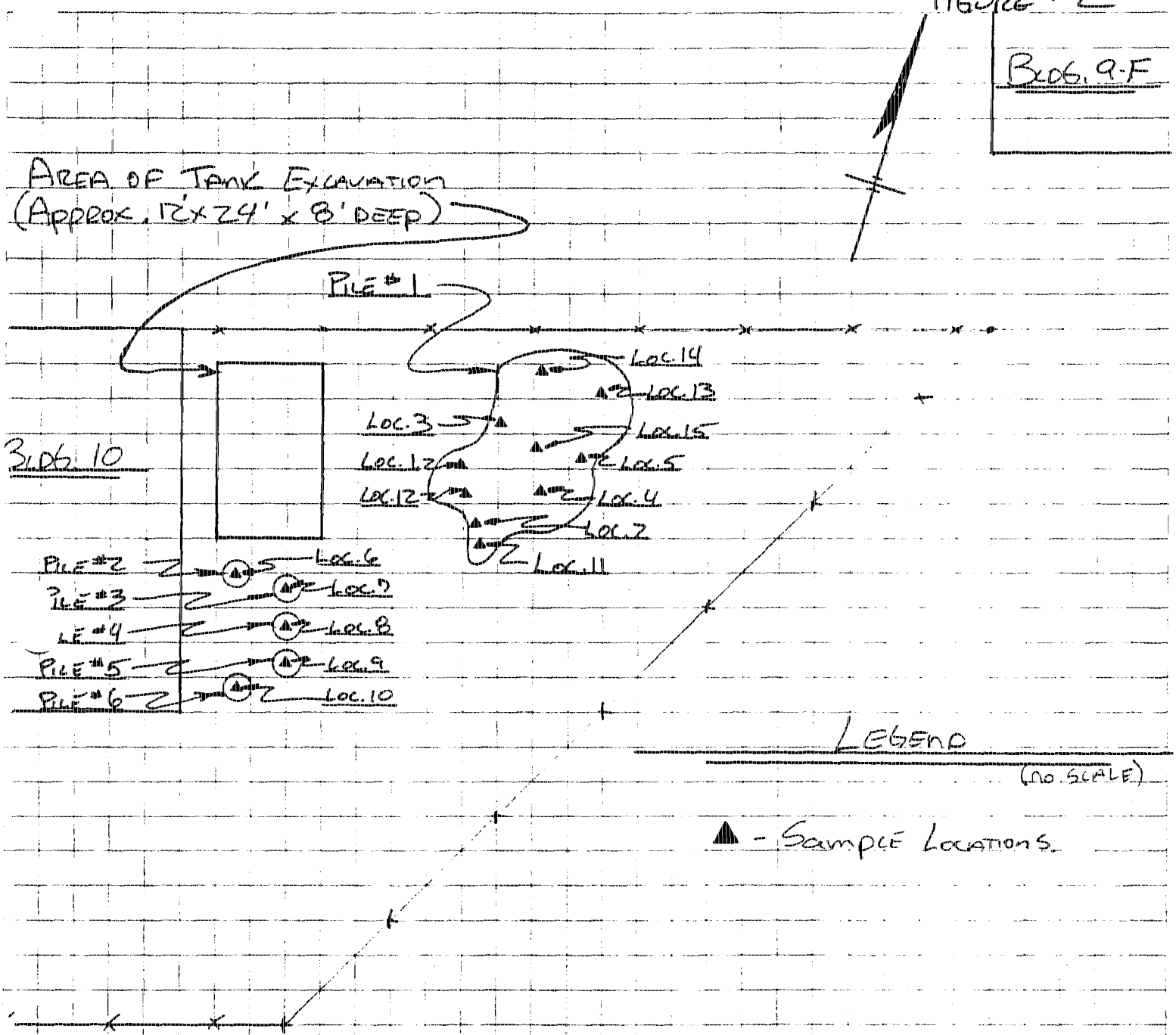
F5 P15 F5

BLASLAND, BOUCK & LEE
ENGINEERS & GEOSCIENTISTS

SUBJECT	PROJ. NO.	BY	DATE	SHEET
UST-10-01 Sampling Program.	20131.02	SPG	6-9-94	1 of 1

FIGURE #2

Bldg. 9-F



PILE #1 = Approx. 23 yd^3
PILE #2 = Approx. < 1 yd^3
PILE #3 = Approx. < 1 yd^3
PILE #4 = Approx. < 1 yd^3
PILE #5 = Approx. < 1 yd^3
PILE #6 = Approx. < 1 yd^3

Attachment 1

BLASLAND, BOUCK & LEE, INC.

UST 10-01 SAMPLING PROGRAM
(201.31.02)

(Table 1)

LAB ID	SAMPLE DATE	PCB (PPM)	TPH (PPM)	TCLP (METALS ONLY)	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
UST-10-01-C1	6-6-94	360.		NR	1	SOIL	DISCRETE-GRAB	(0-1')	2
UST-10-01-C2	6-6-94	260.		NR	2	SOIL	DISCRETE-GRAB	(1-2')	2
UST-10-01-C3	6-6-94	370.		NR	3	SOIL	DISCRETE-GRAB	(2-3')	2
UST-10-01-C4	6-6-94	360.		NR	4	SOIL	DISCRETE-GRAB	(0-1')	2
UST-10-01-C5	6-6-94	330.		NR	5	SOIL	DISCRETE-GRAB	(1-2')	2
UST-10-01-C6	6-6-94	370.		NR	6	SOIL FROM (WEST WALL)	DISCRETE-GRAB	(0-1')	2
UST-10-01-C7	6-6-94	260.		NR	7	SOIL FROM (SOUTH WALL)	DISCRETE-GRAB	(0-1')	2
UST-10-01-C8	6-6-94	1050.		NR	8	SOIL FROM (EAST WALL)	DISCRETE-GRAB	(0-1')	2
UST-10-01-C9	6-6-94	670.		NR	9	SOIL FROM (NORTH WALL)	DISCRETE-GRAB	(0-1')	2
UST-10-01-C10	6-6-94	900.		NR	10	SOIL FROM (BOTTOM OF PIT)	DISCRETE-GRAB	(0-1')	2
UST-10-01-C11	6-7-94	630.		NR	11	SOIL	DISCRETE-GRAB	(1-2')	2
UST-10-01-C12	6-7-94	330.		NR	12	SOIL	DISCRETE-GRAB	(2-3')	2
UST-10-01-C13	6-7-94	310.		NR	13	SOIL	DISCRETE-GRAB	(0-1')	2
UST-10-01-C14	6-7-94	400.		NR	14	SOIL	DISCRETE-GRAB	(1-2')	2
UST-10-01-C15	6-7-94	250.		NR	15	SOIL	DISCRETE-GRAB	(2-3')	2
UST-10-01-C16	6-9-94	NR	NR	SEE OBG LAB REPORT	1-15	SOIL	FIELD-COMPOSITE	(0-3')	2

NR-NOT REQUIRED

4567

OBG LABORATORIES, INC.

PRELIMINARY
JUN 10 1994

Laboratory Report

CLIENT BLASLAND, BOUCK & LEE, INC. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield BB&L Job No. 201.31.02

UST 10-01 Sampling Program

Date Analyzed 6/8/94 DATE COLLECTED See Below DATE RECEIVED 6/7/94

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
UST-10-01:C1	6/7/94	6/6/94	347	91	380	501	A
C2			237	90	260		
C3			329	89	370		
C4			323	90	360		
C5			301	91	330		
C6			337	91	370		
C7			234	89	260		
C8			933	89	1050		
C9			590	88	670		
C10			813	90	900		
A. Reagent Blank 060794-3:					<2.1		
Reference Sample 060794-3:					2.3/3=77 %		
Matrix Spike OP-1-TR-BP-C1:					2.3/3=77 %		
Matrix Spike Duplicate:					2.3/3=77 %		
Precision			2.3 vs 2.3	= 0 % RPD			

Comments:

Certification No.: NY034

Units: ug/kg (dry wt.) = ppm

Authorized:

Date:

4568

OBG LABORATORIES, INC.

PRELIMINARY

JUN 10 1994

Laboratory Report

CLIENT BLASLAND, BOUCK & LEE, INC. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield BB&L Job No. 221-31.02Z

UST-10-01 Sampling Program

Date Analyzed 6/8/94 DATE COLLECTED See Below DATE RECEIVED 6/7/94

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
UST-10-01-C11	6/8/94	6/7/94	569	90	630	soil	A
C12			297	90	330		
C13			277	90	310		
C14			360	90	400		
C15			228	91	250		
A. Reagent Blank 060894-1:					<1		
Reference Sample 060894-1:					23/3=77 %		
Matrix Spike DP-1-TR-BP-C1:					23/3=77 %		
Matrix Spike Duplicate:					23/3=77 %		
Precision:			23 vs	2.3=0 % RPD			

Comments:

Certification No.: NY034

Units: mg/kg (dry wt.) = ppm

Authorized:

Date:

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

QC: AC
JRB

PACKAGE/SAMPLE SCHEDULE

Wednesday, Jun 8,1994
Project Manager: IAA

PACKAGE

Job No.: 2887.26.517 Client: Blasland, Bouck & Lee, Inc.
Project: Pittsfield, MA Description: UST-10-01 Sampling BBB#: 201.31.02
Scheduled: Wednesday,Jun-8 Pkg Due: Wednesday,Jun-22
Package number: 1412 QC Level: 1
Samples: I8077 - 8091 Number of samples: 15
Certification: NY034
Comments:

SCHEDULED SAMPLES

Samples	Number	Group	Parameter	ID	Method	Matrix	Schedule Comments
I8077 - 8091	15	[WC]	% Total Solids	828	S.M. 16 209F	Solid	
I8077 - 8091	15	TPH-8[SV]					

LIST OF ALL SAMPLES IN PACKAGE:

TPH mg/kg dry wt

Sample	Description	Bin	Type	Collected	Received	Sample Log Comments
I8077	UST-10-01-C1	74		JUN-6	Jun-8 09:30	190.
I8078	UST-10-01-C2	74		JUN-6	Jun-8 09:30	200.
I8079	UST-10-01-C3	74		JUN-6	Jun-8 09:30	180.
I8080	UST-10-01-C4	74		JUN-6	Jun-8 09:30	240.
I8081	UST-10-01-C5	74		JUN-6	Jun-8 09:30	150.
I8082	UST-10-01-C6	74		JUN-6	Jun-8 09:30	61.
I8087	UST-10-01-C7	74		JUN-6	Jun-8 09:30	130.
I8084	UST-10-01-C8	74		JUN-6	Jun-8 09:30	260.
I8085	UST-10-01-C9	74		JUN-6	Jun-8 09:30	230.

To: Al Part
Co: BBL Job #: 2887.026.517
Fax#: 413-494-2041
Pages: 2 From: Tom Olechnicki
OBG LABS (315)437-0200/463-7554 Fax

Al - no TCLP results yet - Probably next week
Tom

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: 9202875.1 Date Received: 04/24/92

Sample Matrix: Solid Date Reported: 05/11/92

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass bottle & four VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES EXT/PREP	DATES ANALYSIS
TCLP Extraction	----	-----	---	13	1311	04/28/92	------
RCRA 8 Metals							
Arsenic	ND	mg/L	1.0	1	6010	04/30/92	05/01/92
Barium	ND	mg/L	0.5	1	6010	04/30/92	05/01/92
Cadmium	ND	mg/L	0.1	1	6010	04/30/92	05/01/92
Chromium	ND	mg/L	0.2	1	6010	04/30/92	05/01/92
Lead	ND	mg/L	0.5	1	6010	04/30/92	05/01/92
Mercury	ND	mg/L	0.005	1	7470	04/30/92	05/01/92
Selenium	ND	mg/L	0.05	1	7740	04/30/92	05/01/92
Silver	ND	mg/L	0.1	1	6010	04/30/92	05/01/92
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	05/04/92	05/07/92
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	05/04/92	05/07/92
Hexachlorobenzene	ND	mg/L	0.011	1	8270	05/04/92	05/07/92
Hexachloro-1,3, butadiene	ND	mg/L	0.032	1	8270	05/04/92	05/07/92
Hexachloroethane	ND	mg/L	0.020	1	8270	05/04/92	05/07/92
Nitrobenzene	ND	mg/L	0.0076	1	8270	05/04/92	05/07/92
Pentachlorophenol	ND	mg/L	0.0368	1	8270	05/04/92	05/07/92
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	05/04/92	05/07/92
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	05/04/92	05/07/92
Pyridine	ND	mg/L	0.10	1	8270	05/04/92	05/07/92

Acid/Base/Neutral Extractables	%Surrogate Recovery
2-Fluorophenol	20%
Phenol-d6	11%
Nitrobenzene-d5	92%
2-Fluorobiphenyl	80%
2,4,6-Tribromophenol	33%
4-Terphenyl-d14	90%

NOTE: TCLP 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: 9202875.1 **Date Received:** 04/24/92

Sample Matrix: Solid **Date Reported:** 05/11/92

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

Number & Type of Containers: One glass bottle & 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	04/28/92	------
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	05/04/92
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	05/04/92
Chlorobenzene	ND	mg/L	0.018	1	8240	----	05/04/92
Chloroform	ND	mg/L	0.0075	1	8240	----	05/04/92
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	05/04/92
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	05/04/92
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	05/04/92
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	05/04/92
Trichloroethene	ND	mg/L	0.005	1	8240	----	05/04/92
Vinyl chloride	ND	mg/L	0.018	1	8240	----	05/04/92
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	05/04/92

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	110%
Toluene-d8	95%
4-Bromofluorobenzene	88%

NOTE: TCLP 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: 9202875.1S Date Received: 04/24/92

Sample Matrix: Solid Date Reported: 05/11/92

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass bottle & four VOA vials

Analysis Requested: Analysis as listed below

PARAMETER	%RECOVERY
TCLP RCRA 8 Metals	
Arsenic	99%
Barium	96%
Cadmium	97%
Chromium	100%
Lead	86%
Mercury	140%
Selenium	96%
Silver	92%
Acid/Base/Neutral Extractables	
Total Cresol	19%
2,4-Dinitrotoluene	104%
Hexachlorobenzene	100%
Hexachloro-1,3-butadiene	43%
Hexachloroethane	52%
Nitrobenzene	73%
Pentachlorophenol	62%
2,4,5-Trichlorophenol	79%
2,4,6-Trichlorophenol	81%
Pyridine	4%

Acid/Base/Neutral Extractables	%Surrogate Recovery
2-Fluorophenol	61%
Phenol-d6	60%
Nitrobenzene-d5	83%
2-Fluorobiphenyl	76%
2,4,6-Tribromophenol	40%
4-Terphenyl-d14	99%

NOTE: TCLP 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: 9202875.1S **Date Received:** 04/24/92

Sample Matrix: Solid **Date Reported:** 05/08/92

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

Number & Type of Containers: One glass bottle & four VOA vials

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	%RECOVERY
TCLP Volatile Organics	
Benzene	103%
Carbon tetrachloride	102%
Chlorobenzene	101%
Chloroform	99%
1,4-Dichlorobenzene	106%
1,2-Dichloroethane	104%
1,1-Dichloroethene	98%
Tetrachloroethene	102%
Trichloroethene	101%
Vinyl chloride	103%
Methyl ethyl ketone	104%

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	103%
Toluene-d8	99%
4-Bromofluorobenzene	103%

NOTE: TCLP results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

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.

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.

25. Official Methods of Analysis, AOAC, 14th Edition, 1984.

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Towpath Road, Box 66
Syracuse, New York 13214-0066 (315) 446-9120
FAX: (315) 449-0017

EL92103V

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101-75-16
PROJECT NAME: SOUTH SIDE PUMP STATION EXCAVATION SAMPLING (EAST ST AREA I)

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
SPS-ES-C/		4/24/	1455		X	X			5	X	TO GE LAB PITTSFIELD, MA (JEFFERSON GE) FOR COURIER PICK-UP BY ALPHA ANALYTICAL
											SAMPLED FOR: JACAIE DESANTIS (GE)

PO #: PE3021700
Send report and invoice to MA Fessler, GE Co., Mail Code C23, 100 Woodlawn Ave., Pittsfield, MA 01201.

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Q A Peart Jr	4/24/9 1455		Q A Peart Jr	4/24/9 1515	J Nicholson 4/24/92 3:15PM
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
				4/24 3:45	C. Yandow

PRELIMINARY

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

To: Files

Date: 9-3-92

From: Bruce Eulian

File No: 101-75-16

Re: South Side Pump Station Excavation
(East St. Area 1) Sampling

INITIATOR: Aimee Cole (GE)

DATE: 8-31-92

BLDG. LOCATION: Bldg.64 (Scrap Yard)

CONTACT PERSON: Aimee Cole (GE)

EXT: 2534

ITEM DESCRIPTION:

1.) Soil

PURPOSE: To collcet samples for GE to determine tne proper disposal method for soil generated during the South Side Pump Station Excavation (East St. Area 1). See attached letter dated 8-20-92.

NOTES: The following sampling program was imolemented at the request of Aimee Cole (GE).

1.) Soil from the South Side Pump Station Excavation (East St. Area 1) is to be sampled for Total Petroleum Hydrocarbons using Method 418.1.

2.) GE request the samples to be analyzed at OBG Laboratories located in Syracuse, NY.

rfh

3-20-92

SAMPLING REQUEST

TO: B. EULIAN B & B

FROM: AIMEE COLE GEC

SAMPLING OF EAST STREET CROSSOVER

LOCATION: SCRAPYARD PAD

Please sample the dirt from the caisson crossover for Total Petroleum Hydrocarbons. Please take ~~3~~ 4 grab samples, ~~1~~ 2 from each pile. This dirt has previously been sampled but due to the evidence of oil contamination we need to further sample in order to obtain correct disposition.

Analysis may be done by O B & G. A final report is necessary for the hard copy.

4 Field Comp.

2 Field Comp.

See B+B Report South Side Pump Station Excavation (East St Area 1) Samples 101-75-16 Dated 4-16-92

PRELIMINARY
DELIVERED TO GRANT
BOWMAN (GE) 10-19-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: South Side Pump Station Excavation
(East St. Area 1) Sampling

Date: 9-3-92
File No: 101-75-16
cc: Grant Bowman (GE)
Robert Rhoades (B & B)

The following is a summary of samples (Table 1) collected from gravel & soil generated during the South Side Pump Station Excavation.

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

* Pile #1 which measured approximately 26.6 cu yds of soil, two discrete-grab samples were taken and analyzed for Total Petroleum Hydrocarbons (TPH) Method 418.1.

* Pile #2 which measured approximately 26.6 cu yds of soil, two discrete-grab samples were taken and analyzed for Total Petroleum Hydrocarbons (TPH) Method 418.1.

Drawings showing the site location (Figure 1) and the sample locations (Figure 2) have been attached. A analytical report vided by C96 Laboratories has also been included (Attachment 1).

rth

PRELIMINARY

South Side Pump Station Excavation
(East St. Area 1) Sampling
101-75-16

Table 1

PCB SAMPLING RESULTS METHOD 8080

LAB ID	SAMPLE DATE	TOTAL TPH PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
PILE #1							
SPS-ES-C16	08-31-92	23,000	1-4	SOIL	FIELD-COMPOSITE	0-12"	2
SPS-ES-C17	08-31-92	4,500	5-8	SOIL	FIELD-COMPOSITE	0-12"	2
PILE #2							
SPS-ES-C18	08-31-92	15,000	9-12	SOIL	FIELD-COMPOSITE	0-12"	2
SPS-ES-C19	08-31-92	<100	13-16	SOIL	FIELD-COMPOSITE	0-12"	2

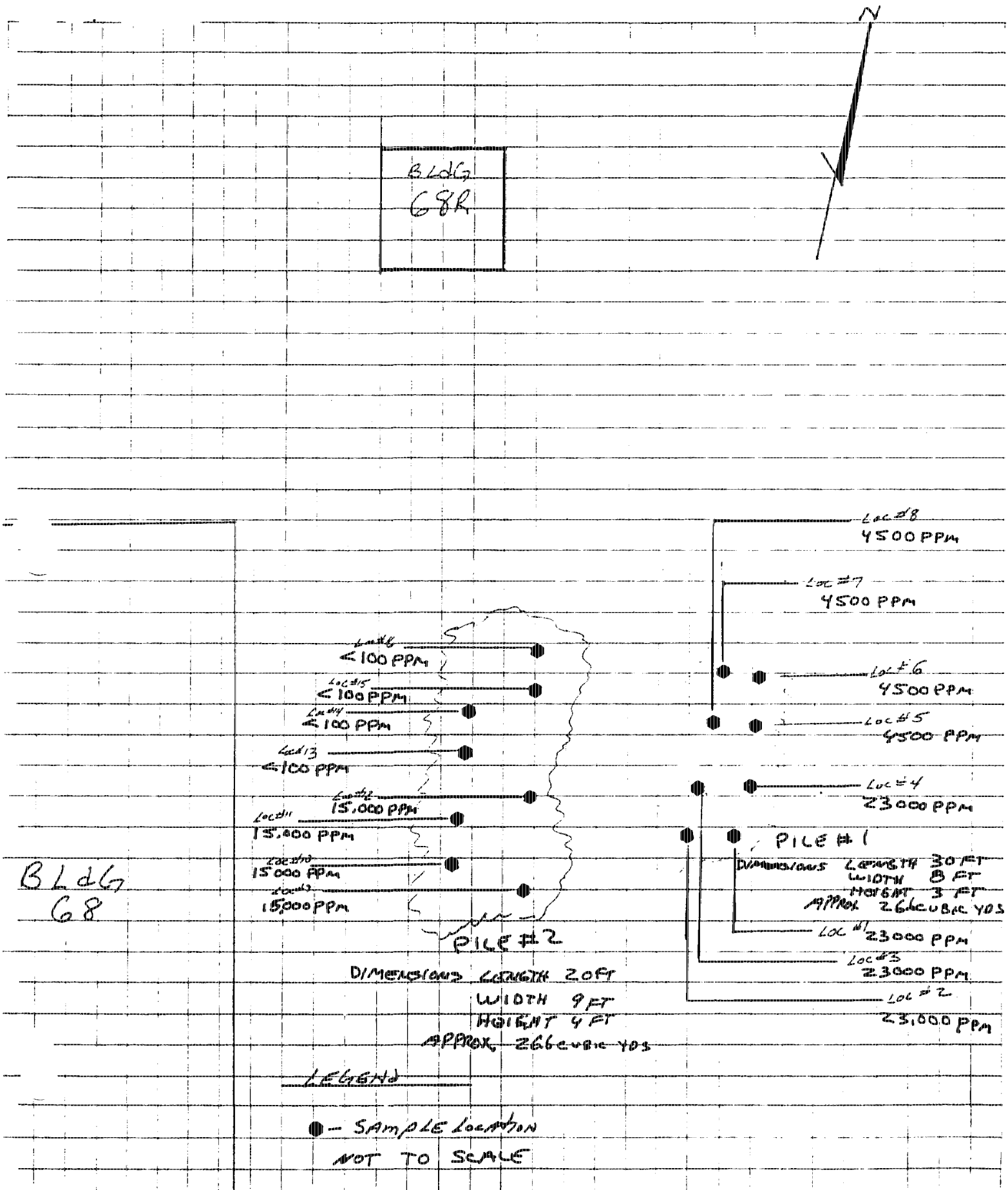
Note: Discrete-grab samples were collected at each sample location (ex. 1, 2, 3, and 4) then a field composite was made into one sample to be analyzed by the laboratory.

rfh

BLASLAND, BOUCK & LEE

Figure #2

SUBJECT	PROJ. NO.	BY	DATE	SHEET
South side Ramp station Excavation (East of Area 2)	101-25-16	RH	9/4/92	1 of 1



ATTACHMENT 1

09/25/1992 09:10

OBG LABORATORIES, INC.

SECTION LEADER: AC
LEVEL OF REPORT: I
DATE SCHEDULED: 9-2

PRELIMINARY
SEP 25 1992

Laboratory Report

BIN #: 10

CLIENT: Blasland + Bouck Engineers, P.C. JOB NO. 289.026.517

DESCRIPTION: Southside Pump Station Excavation B+B# 101 75.43/16 (East St. Area I) Sampling

MATRIX: Soil

DATE COLLECTED: 8-31-92 DATE RECEIVED: 9-1-92

	Sample No:		Total Petroleum Hydro-Carbons	PCTS
SPs-ES-C16	04359		23000.	90.
-C17	60		4500.	91.
-C18	61		15000.	88.
-C19	62		<100.	90.

Copy Check: TAA___/AC___/DRB___/MS___/ARM___

Comments:

IR Spectrophotometer.

Certification No.: NY034

Units: mg/Kg Dry wt.

Authorized: ____________

Date: ____________

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

PLEA ND L POR
BRUCE EULIAN
BLASLAND & BOUCK ENGINEERS
C/O GE POWER TRANSFORMER DEPT.
MAILCODE D-32
100 WOODLAWN AVE.
PITTSFIELD, MA 01201
CC: ROBERT RHOADES
BLASLAND & BOUCK ENGINEERS
6723 TOWPATH RD.
SYRACUSE, NY 13214

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101-75-72
PROJECT NAME: Southside Pump Station Excavation (East St. Area I) Sampling

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB Soil	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	Total Petroleum Hydrocarbons Method 418.1					REMARKS
SPS-ES-C16		5-31-92	1530		X				1	X					Normal Turnaround
SPS-ES-C17		5-31-92	1540		X				1	X					
SPS-ES-C18		5-31-92	1550		X				1	X					
SPS-ES-C19		5-31-92	1600		X				1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Bruce Cobb; Russell Hutch[illegible]	5-31-92 1530 thru 1600		Bruce Cobb	8/4/92 1700	

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
				Sent to OBG Syracuse

PACKAGE/SAMPLE SCHEDULE

Wednesday, Jun 8,1994

Project Manager: TAA

Job No.: 2887.26.517 Client: Blasland, Bouck & Lee, Inc.

Project: Pittsfield, MA Description: UST-10-01 Sampling B&B#: 201.31.02

Scheduled: Wednesday,Jun-8 Pkg Due: Wednesday,Jun-22

Package number: 1412 QC Level: 1

Samples: T8077 - B091 Number of samples: 15

Certification: NY034

Comments:

LIST OF ALL SAMPLES IN PACKAGE:

TPH mg/kg dry wgt.

Sample	Description	Bin	Type	Collected	Received	Sample Log Comments
T8086	UST-10-01-C10	74		JUN-6	Jun-8 09:30	360.
T8087	UST-10-01-C11	74		JUN-7	Jun-8 09:30	180.
T8088	UST-10-01-C12	74		JUN-7	Jun-8 09:30	280.
T8089	UST-10-01-C13	74		JUN-7	Jun-8 09:30	140.
T8090	UST-10-01-C14	74		JUN-7	Jun-8 09:30	220.
T8091	UST-10-01-C15	74		JUN-7	Jun-8 09:30	260.

OBG LABORATORIES, INC.

Laboratory Report

CLIENT Blasland, Bouck & Lee, Inc JOB NO. 2987.026.517

DESCRIPTION UST-10-01 Sampling BBL#-201.3.02

Toxicity Characteristic Leaching Procedure MATRIX: Solid

DATE COLLECTED 6/9/94 DATE RECEIVED 6/10/94

Description	UST-10-01-C16
Sample #	T5179
TCLP Metals:	
ARSENIC	<0.5
BARIUM	<10.
CADMIUM	<0.1
CHROMIUM	<0.5
LEAD	<0.5
MERCURY	<0.0005
SELENIUM	<0.1
SILVER	<0.5

Analytical Record:

Date Leachate Created 06-16-94

Date Mercury Analyzed 06-20-94

To: BBL Part

Co: BBL Job #: 2987.026.517

Fax#: 413-494-2041

Pages: 1 From: T. A. Lazarski

OBG LABS (315)437-0200/463-7554 Fax

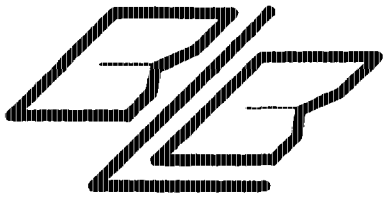
Certification No.: NY034

Units: mg/L

Authorized: _____

Date: _____

Attachment 2



BLASLAND, BOUCK & LEE, INC.
PHOTOIONIZATION DETECTOR (PID) - HNU CALIBRATION FORM

UST 10-01 Sampling Program
(201.31.02)

Date: 6-6-94

Operator: Al Peart

HNU Serial #: A70129

eV of Probe: 10.2

Calibration Gas:	9.80	Span Setting	@	57	ppm
Initial Reading:	9.80	Span Setting	@	44	ppm
Adjusted Setting:	7.50	Span Setting	@	57	ppm

Notes:

13, 1994
001.cal

BLASLAND, BOUCK & LEE, INC.
PHOTOIONIZATION DETECTOR (PID) - HNU CALIBRATION FORM

UST 10-01 Sampling Program
(201.31.02)

Date: 6-7-94

Operator: Al Peart

HNU Serial #: A70129

eV of Probe: 10.2

Calibration Gas:	**9.80**	**Span Setting**	**@**	**57**	ppm
Initial Reading:	**9.80**	**Span Setting**	**@**	**44**	ppm
Adjusted Setting:	**7.73**	**Span Setting**	**@**	**57**	ppm

Notes:

Attachment 3

BLASLAND, BOUCK & LEE, INC.
PHOTOIONIZATION DETECTOR (PID) - HEAD SPACE SCREENING RESULT SHEET

UST 10-01 Sampling Program (201.31.02)

Date: 6-6-94 & 6-7-94
Operator: Al Peart

Sample Location	HNU Reading Sample A	HNU Reading Sample B	HNU Reading Average
1	1.2	0.8	1.0
2	0.4	0.4	0.4
3	0.2	0.4	0.3
4	2.0	1.8	1.9
5	2.2	2.0	2.1
6	2.6	2.4	2.5
7	4.0	3.8	3.9
8	3.4	3.2	3 3
9	2.6	2.2	2.4
10	1.2	1.0	1.1
11	5.8	5.6	5.7
12	3.8	3.6	3.7
13	4.4	4.8	4.6
14	5.4	5.0	5.2
15	4.0	3.8	3.9

Attachment 4

Blasland, Bouck & Lee, Inc.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 201-31-02
PROJECT NAME: UST-10-01 Sampling Program

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID (Soil)	WIPE	WATER	NO. OF CONTAINERS	PCB's Method 8080					REMARKS
UST-10-01-C1		6-6-94	1520			X			1	X					
UST-10-01-C2		6-6-94	1530			X			1	X					
UST-10-01-C3		6-6-94	1540			X			1	X					
UST-10-01-C4		6-6-94	1550			X			1	X					
UST-10-01-C5		6-6-94	1600			X			1	X					
UST-10-01-C6		6-6-94	1610			X			1	X					
UST-10-01-C7		6-6-94	1620			X			1	X					
UST-10-01-C8		6-6-94	1630			X			1	X					
UST-10-01-C9		6-6-94	1640			X			1	X					
UST-10-01-C10		6-6-94	1650			X			1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
John J. Moe; Al H. Peart	6-6-94 1650		Adam P. Mra	6-7-94 0910	
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
		L. Prudhomme	6/7/94 0910	DELIVERED TO OBG LAB PITTSFIELD

Blasland, Bouck & Lee, Inc.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 201-31-02
PROJECT NAME: UST-10-01 Sampling Program

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
UST-10-01-C11		6-7-94	1300			X			1	X					
UST-10-01-C12		6-7-94	1310			X			1	X					
UST-10-01-C13		6-7-94	1320			X			1	X					
UST-10-01-C14		6-7-94	1330			X			1	X					
UST-10-01-C15		6-7-94	1340			X			1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
John P. Hoga R. H. Pratt Jr.	6-7-94 1340		John P. Hoga	6-7-94 1447	
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	
		L. Prudhomme	6/7/94 1447	DELIVERED TO OBG PITTSFIELD LAB.	

Blasland, Bouck & Lee, Inc.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

PLEASE SEND ANY REPORTS TO:
BRUCE EULIAN
Blasland, Bouck & Lee, Inc.
C/O GE POWER TRANSFORMER DEPT.
MAIL CODE D-32
100 WOODLAWN AVE.
PITTSFIELD, MA 01201

CHAIN OF CUSTODY RECORD

PROJECT NO.: 201.31.02
PROJECT NAME: UST-10-01 SAMPLING PROGRAM

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID SOIL	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TCLP Metals Only					REMARKS
UST-10-01-C16		6/9/94	1115		X	X			1	X					(1) ONE QUART GLASS CONTAINER WITH A TEFLON LID

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
R.M. Pratt Jr.	6/9/94 1115		R.M. Pratt Jr.	6/9/94 1130	
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	
				TO: OBG SYRACUSE FED.EX. AIRBILL # 077578 5021	

BLASLAND, BOUCK & LEE, INC.
PHOTOIONIZATION DETECTOR (PID) - HNU CALIBRATION FORM

Date: 6-7-94

Operator: AL PEART

HNU Serial #: A 70129

eV of Probe: 10.2

Calibration Gas:	9.80	**Span Setting**	@	57	ppm
Initial Reading:	9.80	**Span Setting**	@	44	ppm
Adjusted Setting:	8.00 7.73	**Span Setting**	@	57	ppm

Notes:

BLASLAND, BOUCK & LEE, INC.

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: UST 10-01 Drum Sampling Program (GE Drum #'s 32163,31765,32156, 32145,32144,32098 & 32143)

DATE: June 15, 1994
FILE NO.: 201.31.02

INITIATOR: Pete Wojcik (GE)

DATE: 6-9-94

LOCATION: Bldg. 12 Short-term Storage Area (STS)

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

EM DESCRIPTION:

1.) Oil & Water

PURPOSE: To collect samples for GE to determine the proper disposal method for the oil and water in GE Drum #'s 32163, 31765, 32156, 32145, 32144, and 32143 which were generated during the clean out of UST 10-01 (located outside the east end of bldg 10) and are now located in Bldg. 12 -STS.

NOTES: The following sampling program was implemented at the request of Aimee Cole (GE) ;

1.) One (1) discrete-grab sample of oil and water is to be collected from each drum and analyzed for PCB's. GE requests that the sample be analyzed at the Pittsfield GE Laboratory.

DELIVERED TO
GRANT BOWMAN (GE)
7-26-94

BLASLAND, BOUCK & LEE, INC.

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: UST 10-01 Drum Sampling Program
(GE Drum #'s 32163, 31765,32156,
32145,32144,32098 & 32143)

DATE: June 15, 1994
FILE NO.: 201.31.02
cc: Grant Bowman (GE)
Pete Wojcik (GE)

The following is a summary of the sampling program conducted on 6-13-94 of the UST 10-01 drums (GE Drum #'s 32163,31765,32156,32145,32144,32098 & 32143) located in Bldg. 12-STS that were generated during the clean out of UST 10-01 (located outside the east end of Bldg.10).

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

- Seven (7) discrete-grab samples of oil and water (one liter glass container from each drum) was collected and analyzed for PCB's (Method 8080).

Notes:

- The oil and water samples were analyzed at the Pittsfield GE Laboratory.

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

BLASLAND, BOUCK & LEE, INC.

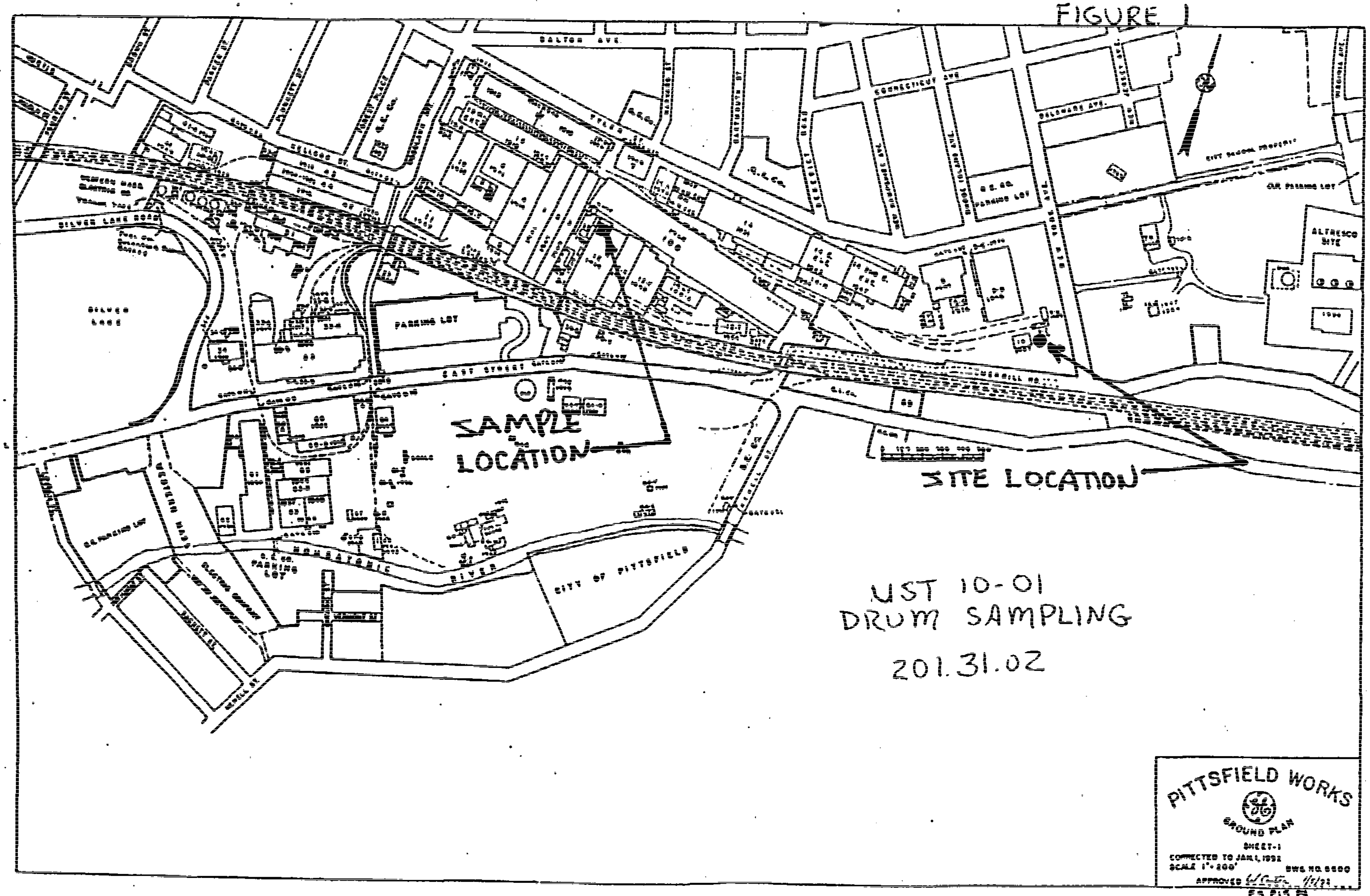
UST 10-01 DRUM SAMPLING

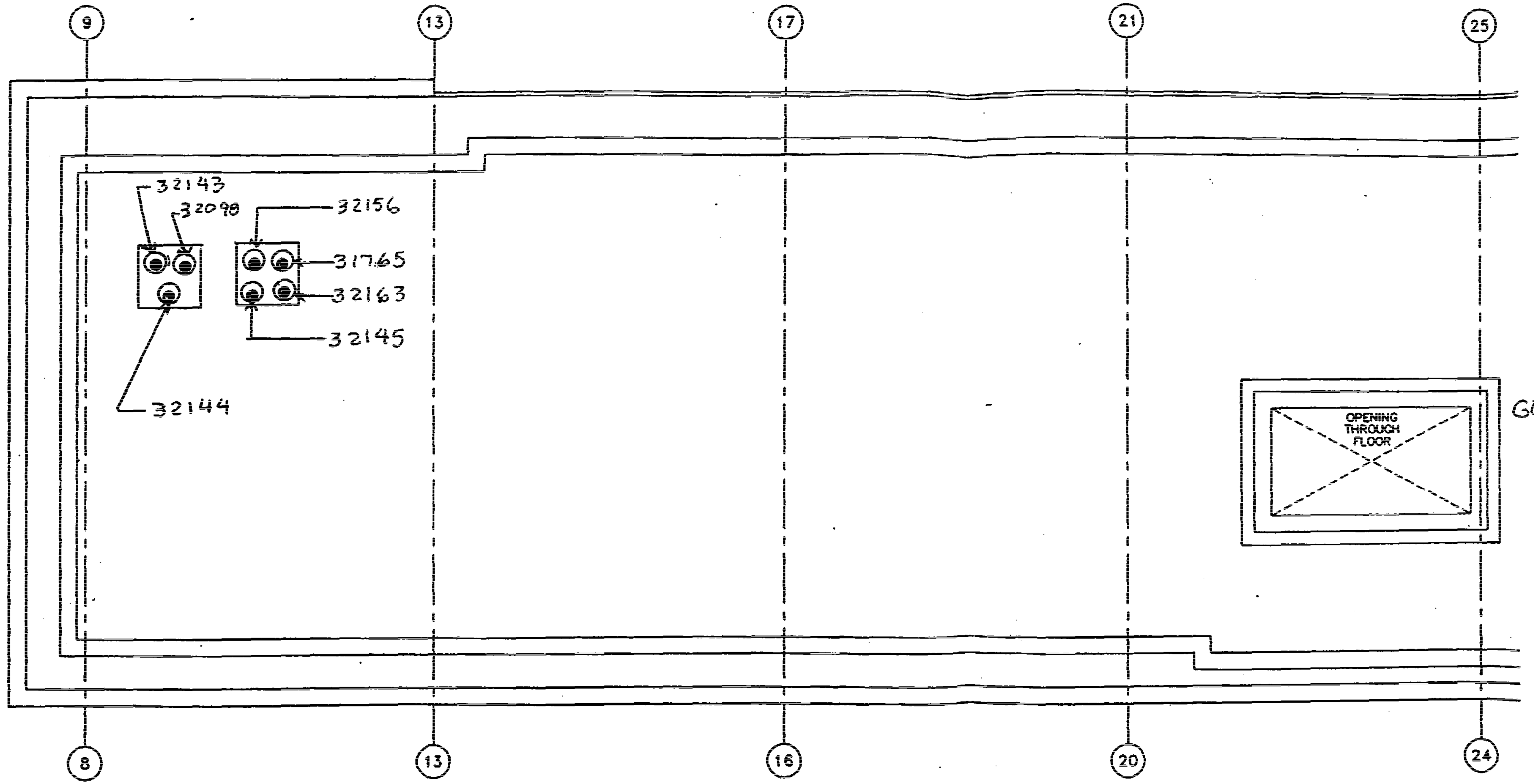
(201.31.02)

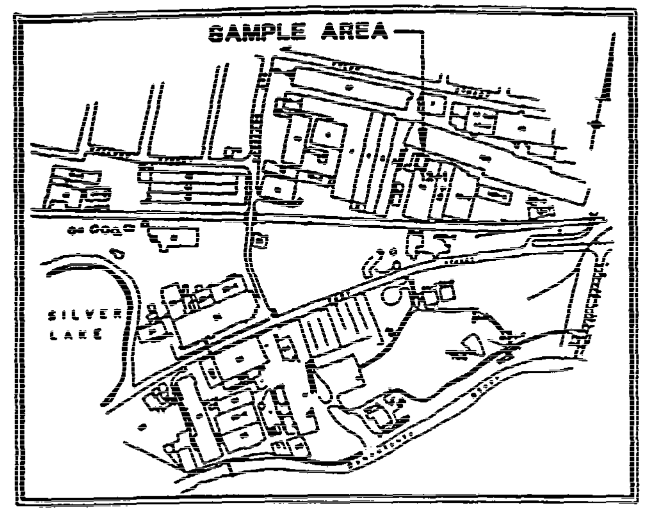
(Table 1)

LAB ID	SAMPLE DATE	PCB (METHOD 8080)	GE DRUM #	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
12-STS-32163-L1	6-13-94	(SEE GE LAB REPORT)	32163	OIL/WATER	DISCRETE-GRAB	(0-6")	2
12-STS-31765-L1	6-13-94	(SEE GE LAB REPORT)	31765	OIL/WATER	DISCRETE-GRAB	(0-30")	2
12-STS-32156-L1	6-13-94	(SEE GE LAB REPORT)	32156	OIL/WATER	DISCRETE-GRAB	(0-31")	2
12-STS-32145-L1	6-13-94	(SEE GE LAB REPORT)	32145	OIL/WATER	DISCRETE-GRAB	(0-32")	2
12-STS-32144-L1	6-13-94	(SEE GE LAB REPORT)	32144	OIL/WATER	DISCRETE-GRAB	(0-30")	2
12-STS-32098-L1	6-13-94	(SEE GE LAB REPORT)	32098	OIL/WATER	DISCRETE-GRAB	(0-14")	2
12-STS-32143-L1	6-13-94	(SEE GE LAB REPORT)	32143	OIL/WATER	DISCRETE-GRAB	(0-32")	2

FIGURE 1


SAMPLE LOCATION
SITE LOCATION
UST 10-01
DRUM SAMPLING
201.31.02
DALTON AVE
EAST STREET
PARKING LOT
SILVER LAKE
CITY OF PITTSFIELD
HOUSATONIC RIVER
ALTRESCO SITE
PITTSFIELD WORKS
GROUND PLAN
SHEET-1





LOCATION PLAN

LEGEND

- WOOD PALLET
- 55GALLON DRUM
- SAMPLE LOCATION

GE DRUM #- 32143

NOT TO SCALE

GENERAL NOTE:

BUILDING 12-1 SHORT-TERM STORAGE AREA (STS)

NOT TO SCALE

BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

UST 10-1 DRUM SAMPLING

201.31.02

FIGURE 2

Attachment 1

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

LOG NUMBER: P5819 DATE: 6-28-94

REQUESTED BY: A. Cole

SAMPLE IDENTIFICATION		Specific Gravity	Total Chlorine	PCB Concentration
12-STS-32163-L1	6/13/94			82 PPB
12-STS-31765-L1	6/13/94			5.1 ug/g JK
12-STS-32156-L1	6/13/94			301 PPB
12-STS-32145-L1	6/13/94			<5 PPB
12-STS-32144-L1	6/13/94			<5 PPB
12-STS-32098-L1	6/13/94			<2 ug/g JK
12-STS-32143-L1	6/13/94			<2 ug/g JK

COMMENTS: Drum Sampling Program 201.31.02 OIL+WATER
JK water/oil samples contained substantial oil layer. Analyzed oil layer only.
Remaining samples were water with some solids and samples were filtered
using the GE Environmental Lab water extraction method.

REPORT BY: JS Nicholson DATE: _____ APPROVED: _____

DISTRIBUTION: Requestor
Laboratory File

Attachment 2

Blasland, Bouck & Lee, Inc.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 2D1.31.02
PROJECT NAME: UST-10-01 DRUM SAMPLING PROGRAM

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: OIL / WATER	NO. OF CONTAINERS	TOTAL PCB'S METHOD 8080					REMARKS
12-STS-3213	3-L1	4/13/94	1250		X			X	1	X					SAMPLED FOR
12-STS-3176	5-L1	4/13/94	1300		X			X	1	X					ALMEE COLE (GEC)
12-STS-3215	2-L1	4/13/94	1310		X			X	1	X					
12-STS-3214	5-L1	4/13/94	1320		X			X	1	X					
12-STS-3214	4-L1	4/13/94	1330		X			X	1	X					
12-STS-3210	8A-L1	4/13/94	1340		X			X	1	X					
12-STS-3214	3-L1	4/13/94	1350		X			X	1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
D.H. Post Jr.	4/13/94 1350				
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	
D.H. Post Jr.	4/13/94 1430	W.M. Sweeney	4/13/94 2 35 PM		

8

APPENDIX L, SECTION 3

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 14-1 FLOOR SAMPLING	101.75.01	M E	4-21-88	

Request for Sampling

Date: 3/4/88, 3/29/88

Initiator: Gus Gusti

BLDG Location: BLDG. 14-1

Contact Person Gus Gusti Ext 3387

Item Description	Proposed Destination
	Hill 78
1) Steel plates with attached concrete	
2) Concrete floor.	
3) SOIL	

Notes: 1) Steel plates with attached concrete were sampled in place and then removed to outside area (north of BLDG. 100.). 2) Concrete was sampled in place. (see attached drawing) 3) Grab sample was taken from area C10 (see figure 3), after soil was excavated and placed in a pile next to excavated area.

B/B use

GE Aerospace

Defense Systems Division
General Electric Company
100 Plastics Ave Pittsfield MA 01201

Bldg Room 2700

March 24, 1988

Subject: Steel Block and Concrete
14S Hi Bay

Mr. G.V. Giusti
E38

Based on PCB sample results, the following disposition applies:

1. Concrete may be disposed to the 78 hill

2. Steel with attached concrete may be turned over to your contractor for normal scrap disposition.

You will work through Bob Rhoades to sample soil from your eventual interior foundation excavation.

G. Grant Bowman

/ljr

cc: PW Houle
RW Rhoades

BLASLAND & BOUCK ENGINEERS, P.C.

BJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 14-1 FLOOR SAMPLING	101-75-01		4.7.88	

PRELIMINARY

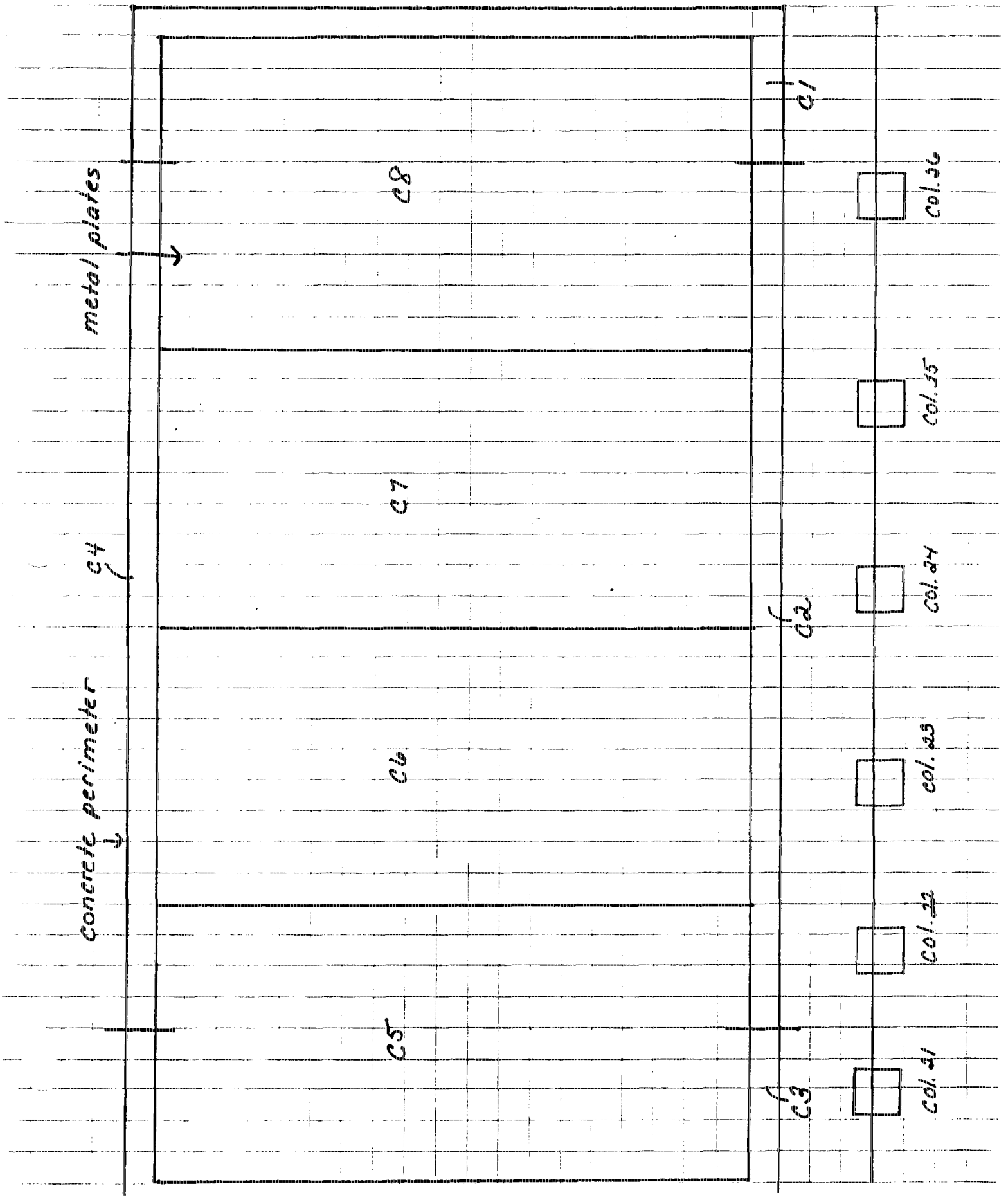
he following is a summary of the sample results for the sampling conducted Building 14-1st Floor. A drawing showing the sample location is attached e Figure 1). An Analytical Report provided by O&B Laboratories has also been cluded.

B Sampling Results

B ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
4-1-C1	< 5	concrete	C1	3"	composite
2	< 5	concrete	C2	3"	composite
-1-C3	< 5	concrete	C3	3"	composite
-1-C4	< 5	concrete	C4	3"	composite
1-1-C5	< 5	concrete	C5	5"	composite
1-C6	< 5	concrete	C6	5"	composite
-1-C7	< 5	concrete	C7	5"	composite
8	< 5	concrete	C8	5"	composite

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 14-1 FLOOR SAMPLING	101-75-01		4.5.88	FIG. 1



BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 14-1 FLOOR SAMPLING	101-75-01		4.7.88	

PRELIMINARY

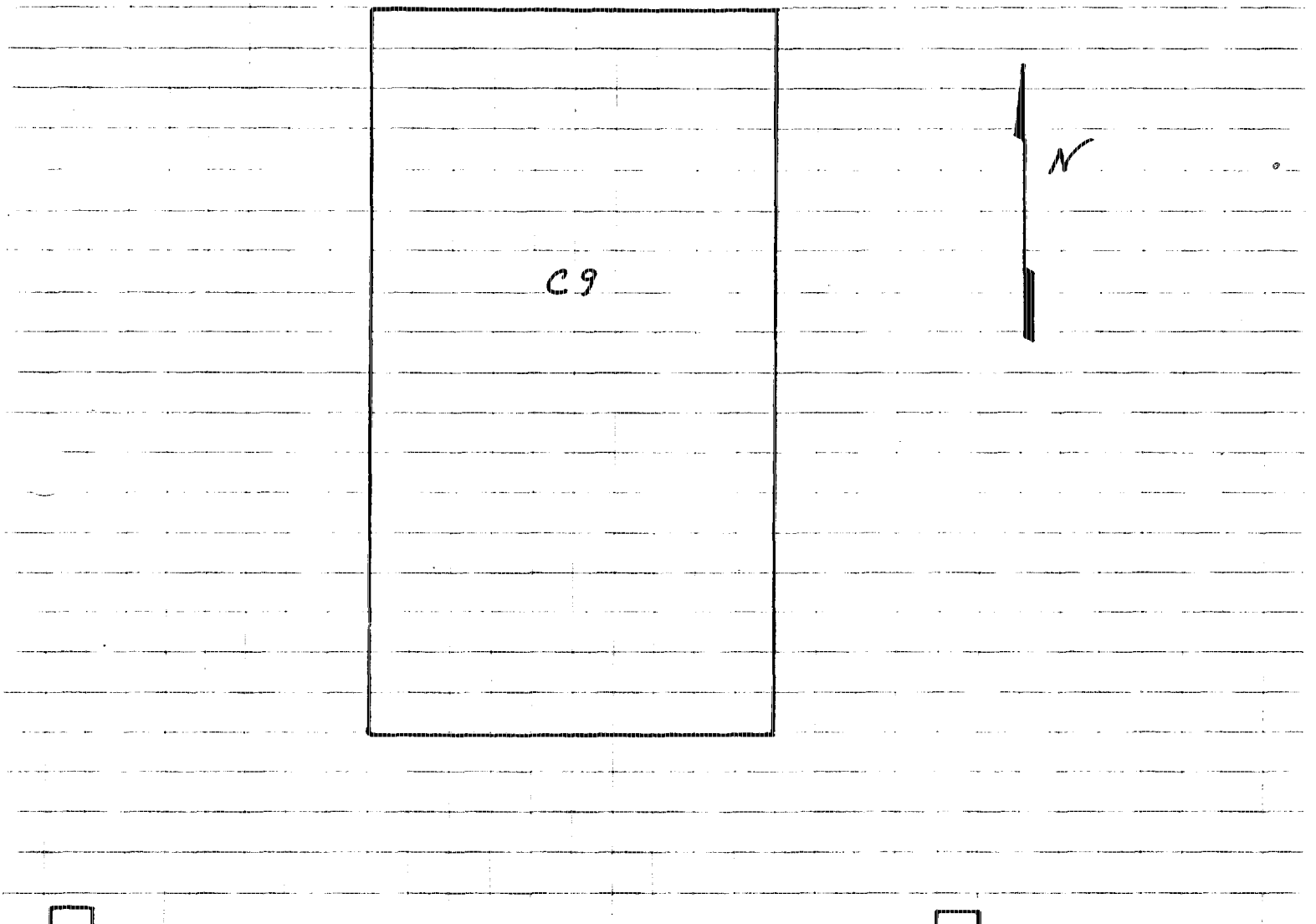
following is a summary of the sample results for the sampling conducted in building 14-1 1st floor. A drawing showing the sample location is attached (see figure 2. Analytical Report provided by O&G Laboratories has also been included.

B Sampling Results

AREA	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
1-1-C9	< 5	concrete	C9	7"	composite

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 14-1 FLOOR SAMPLING	101-75-01			FIG 2



BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 14-1 FLOOR SAMPLING	101.75.01	NE	4.20.88	

PRELIMINARY

Following is a summary of the sample results for the sampling conducted in Building 14-1 floor. A drawing showing the location is attached (see Figure 3). An Analytical Report sided by O86 Laboratories has also been included.

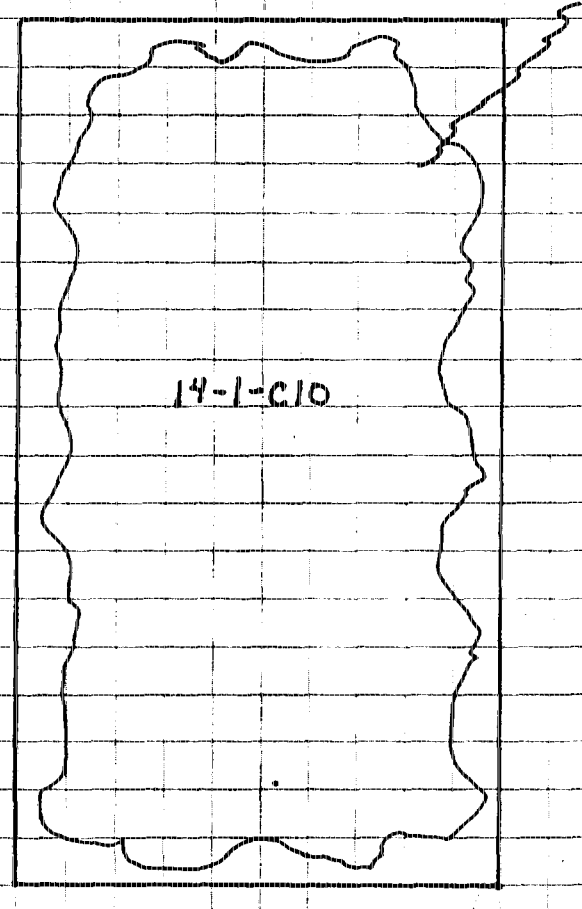
B Sampling Results

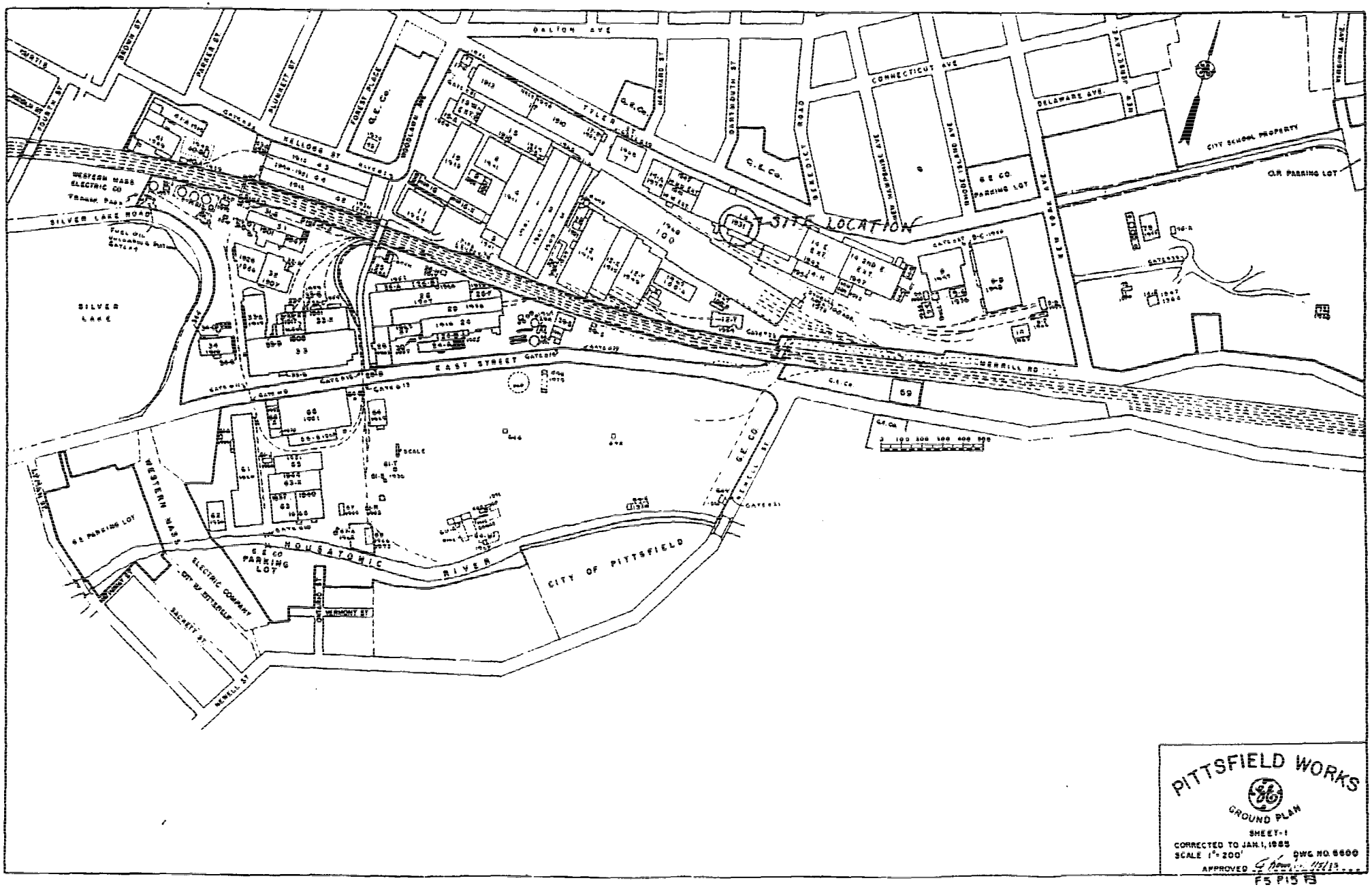
SB ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
1-1-C10	< 5.	SOIL	C10	0"-6"	*Composite

Grab sample was taken from area C10 (see Figure), after soil was excavated and placed in a pile next to excavated area.

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 14-1 CONCRETE FLOOR SAMPLING	101-75-01	HE	4-20-88	FIG. 3





PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1965

SCALE 1" = 200'

DWG NO. 6600

APPROVED

F5 P15 13

OBG LABORATORIES, INC.

511

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-25-01

DATE COLLECTED See Below DATE REC'D. 3/7/88 DATE ANALYZED 3/7/88 → 3/8/88

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	Total PCB mg/Kg	COMMENTS	QC RESULTS
14-1-C1	3/7/88	3/4/88			< 5.	Concrete composite	A
14-1-C2					< 5.		
14-1-C3					< 5.		
14-1-C4					< 5.		
14-1-C5					< 5.		
14-1-C6					< 5.		
14-1-C7					< 5.		
14-1-C8					< 5.		
A) Matrix Spike of 14-1-C8					11.11 / 10.03 =	111 %	Recovery
Duplicate of 14-1-C7					< 5.	200 % RPD =	2
Lab Blank 1 3/7/88					< 5.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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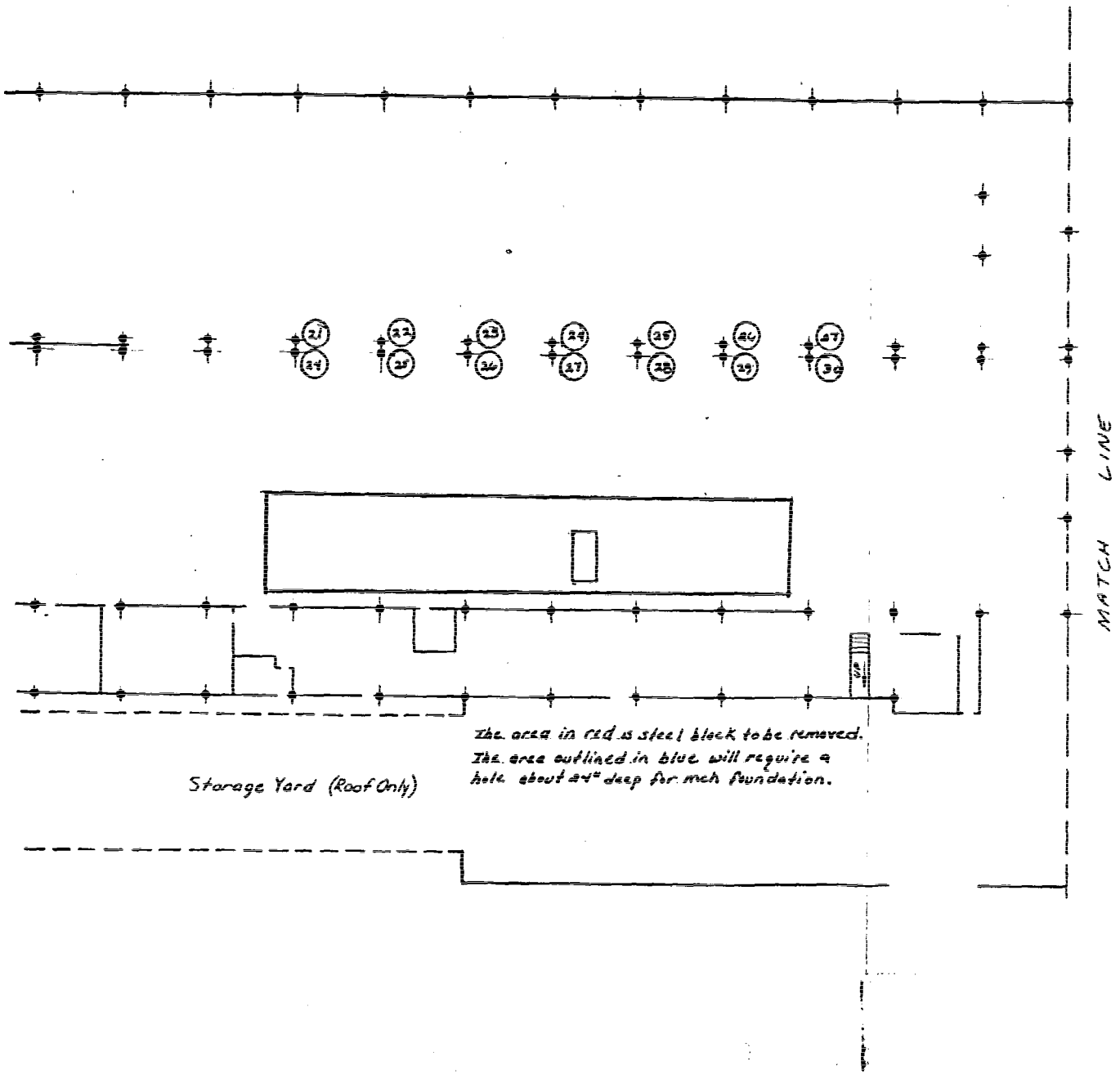

The area in red is steel block to be removed.
The area outlined in blue will require a hole about 24" deep for each foundation.

Storage Yard (Roof Only)

BLDG. 14

Scale: 1" = 30'

OBG LABORATORIES, INC.

578

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-25-01

DATE COLLECTED See Below DATE REC'D. 4/11/88 DATE ANALYZED 4/11/88

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt	PCTS %	PCB mg/Kg dry wt	COMMENTS	QC RESULTS
14-1-C10	4/11/88	4/5/88	1.3	95.3	< 5.	soil composite	A
					10.91		
A) Matrix Spike of 14-1-C10			----	95.1	10.03 =	109 %	Recovery

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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558

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-25-01

DATE COLLECTED See Below DATE REC'D. 3/29/88 DATE ANALYZED 3/30/88

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	Total PCB mg/Kg	COMMENTS	QC RESULTS
14-1-C9	3/30/88	3/29/88			< 5.	Concrete Composite	

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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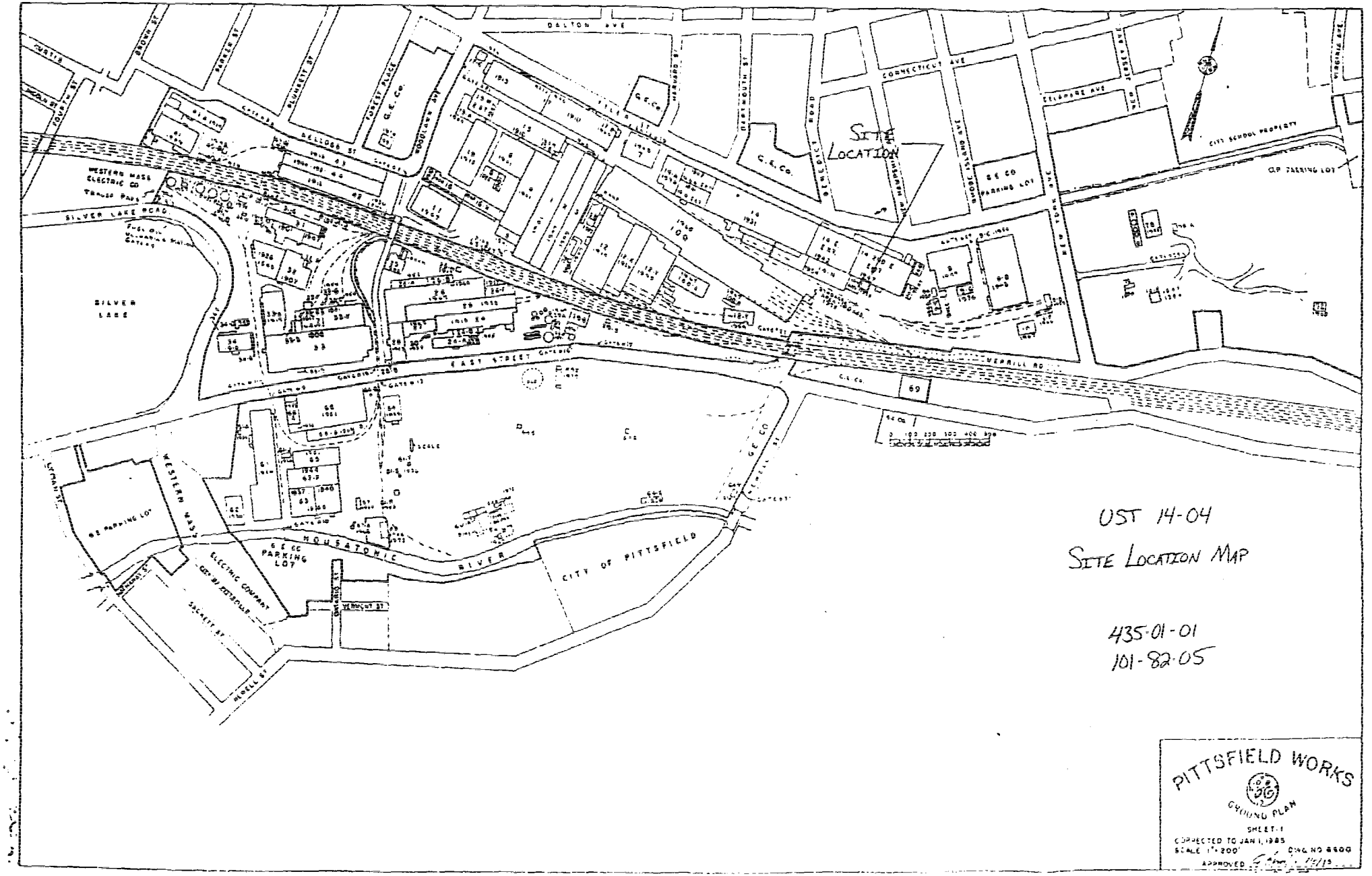
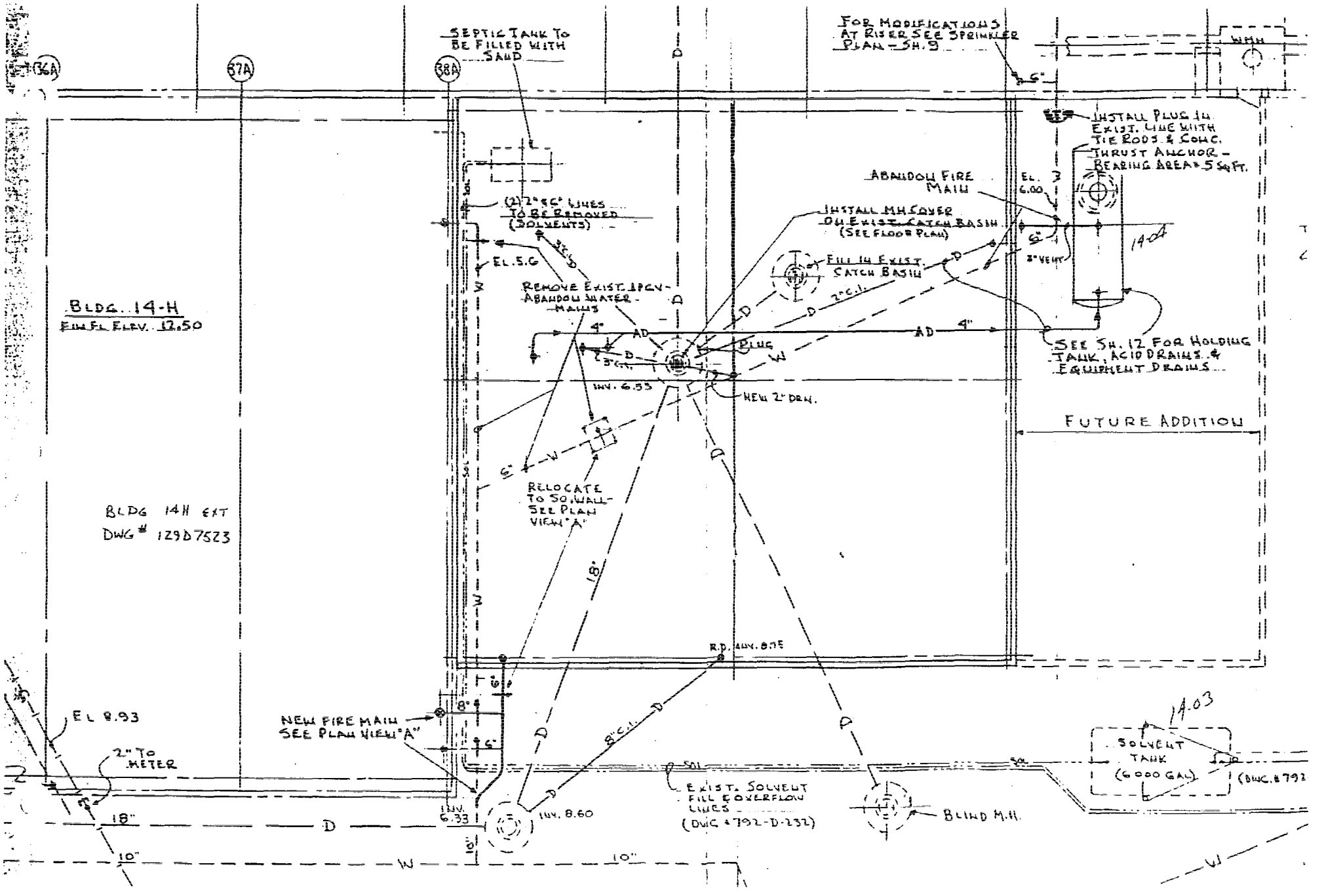


UST 14-04

SITE LOCATION MAP

435-01-01
101-82-05

PITTSFIELD WORKS
GROUND PLAN
SHEET 1
CORRECTED TO JAN 1, 1985
SCALE 1" = 200'
DWG NO 8600
APPROVED


36A
37A
38A
SEPTIC TANK TO BE FILLED WITH SAND
FOR MODIFICATIONS AT RISER SEE SPRINKLER PLAN - SH. 9
WMH
INSTALL PLUG IN EXIST. LINE WITH TIE RODS & CONC. THRUST ANCHOR - BEARING AREA = 5 SQ FT.
ABANDON FIRE MAIN
EL. 6.00
INSTALL MH COVER ON EXIST. CATCH BASIN (SEE FLOOR PLAN)
(2) 2"SC" LINES TO BE REMOVED (SOLVENTS)
EL. 5.6
REMOVE EXIST. 8"CV - ABANDON WATER MAINS
FILL IN EXIST. CATCH BASIN
BLDG. 14-H
FIN. FL. ELEV. 12.50
4"
AD
PLUG
INV. 6.55
NEW 2" DRN.
SEE SH. 12 FOR HOLDING TANK, ACID DRAINS & EQUIPMENT DRAINS
FUTURE ADDITION
RELOCATE TO SO. WALL - SEE PLAN VIEW "A"
BLDG 14H EXT
DWG # 129D7523
R.D. INV. 8.75
EL 8.93
NEW FIRE MAIN SEE PLAN VIEW "A"
2" TO METER
8"
6"
18"
10"
INV. 6.33
INV. 8.60
EXIST. SOLVENT FILL & OVERFLOW LINES (DWG # 792-D-232)
BLIND M.H.
SOLVENT TANK (6000 GAL)
14.03
14.04
(DWG. # 792

BLASLAND & BOUCK ENGINEERS, P.C.

JECT	PROJ. NO.	BY	DATE	SHEET
UST 14-04 Sampling	101.82.05	RJP	8-18-89	1-1

Lab ID	Results (ppb)	Sample Location	Sample Type	Sample Description
UST14-04-P1	42 ppb	Tank 1404	Discrete Grab	Single Phase, Aqueous to be wash water.

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield - Job No. 101.82.05
UST 14-04-P1

DATE COLLECTED 8-14-89 DATE REC'D. 8-15-89 DATE ANALYZED 8-16-89

Sample #	19057
PCB	42.
AROCLOR	1242+1260
MATRIX	Water
UNITS	µg/l

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 6, 1989

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
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BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 2 of 8

Analyze 2nd

PROJECT: GE PITTSFIELD
JOB No.: 101.82.05

LAB I.D. No.: ____________

PRIORITY

- [ ] 1 - 1 DAY (24 hrs.)
- [ ] 2 - 3 DAYS (Rush)
- [x] 3 - 10 DAYS (Normal)

	JAR I.D.	DATE SAMPLED	SAMPLE TYPE
USJ14-04-P1		8-14-89	Water

CHECK ONE:

- [x] Analyze Separately for PCBs.
- [ ] Composite Equal Weights and Analyze for PCBs.
- [ ] Special Instructions ____________

AIR BILL No.: 934476358 4

		Company	Lab Location	Date / Time
I. Relinquished by:	[signature]	BBEs	O&S,	8-14-89 / 18:00
Received by:	Anne Barnes	O&S Lab	Syracuse	8-15-89 / 10:30
Relinquished by:				
Received by:				

SAMPLE DISPOSAL: [ ] Return to GE [ ] Disposal by Lab

Date of Disposal ____________ Signature ____________

BLASLAND, BOUCK & LEE

ECT	PROJ. NO.	BY	DATE	SHEET
UST 14-04 : Tank Removal Sampling				

ID	Analysis	Results	Sample Dt	Description
UT14-04-C1	PCB	<5. ppm	10-26-89	Full Core concrete sample taken at 7 locations and composited by equal weight.
~~UT14-04-C2~~	~~PCB~~	~~<5. ppm~~	~~10-26-89~~	

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield, MA Job No. 435.01.01

DATE COLLECTED See Below DATE REC'D. 10-26-89 DATE ANALYZED 10-26-89

LAB ID NO.	DATE	PCB mg/kg	COMMENTS
UST14-04-C1	10-26-89	<5.	Concrete Composite

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: [signature]

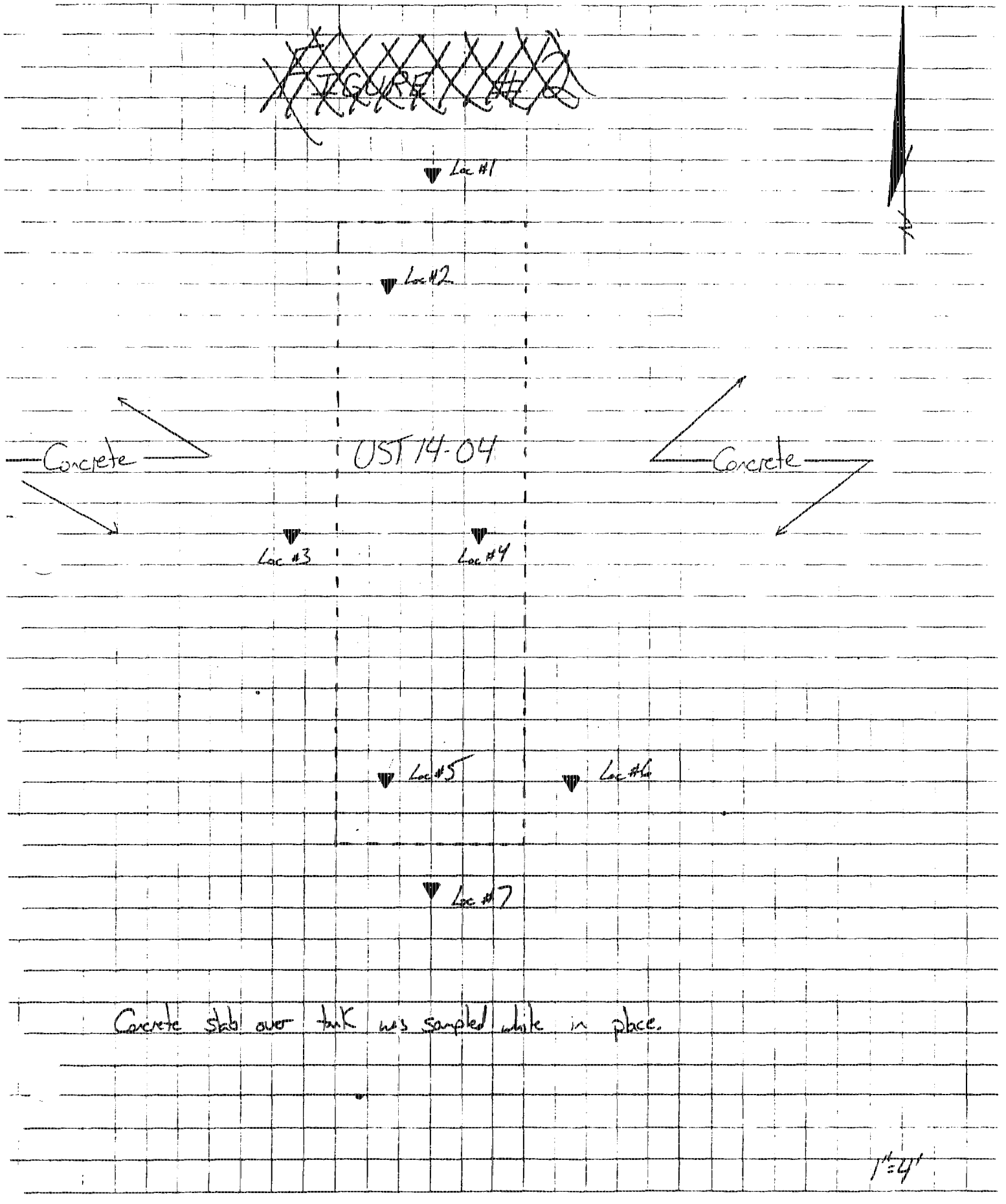
Date: November 18, 1989

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

BLASLAND, BOUCK & LEE

PROJECT	PROJ. NO.	BY	DATE	SHEET
UST 14-04 : Tank Removal - Concrete Sampling	495.01.01	RJP		

FIGURE 1



Concrete slab over tank was sampled while in place.

1" = 4'

Site Assessment Summary
UST 14-04

TO: FILES
FROM: ROBERT RHOADES
Re: UST14-04 REMOVAL

DATE: 1-3-90
FILE NO: 435.01.01
cc: PETE WOJCIK

The following is a summary of results for the sampling program conducted on October 26 and December 5, 1989 for UST 14-04. Field sketchs showing the sample locations are attached (see figure 1 for concrete sampling and figure 2 for soil sampling). Copies of the analytical reports provided by OBG Laboratories and sampling notes pertaining to this tank have been included for your information.

LAB ID	REQUIRED ANALYSIS	SAMPLE RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	NUMBER OF SAMPLES IN COMPOSITE	SAMPLE TYPE	SAMPLE DESCRIPTION	SAMPLE DATE
UST14-04-C1	TOTAL PCB	<5.ppm	1-7 (see fig 1)	[illegible]E	7	COMPOSITE (1) FULL CORE (7" DEPTH)	CONCRETE ABOVE TANK	10-26-89
UST14-04-C2	TOTAL PCB	<5.ppm	([illegible] fig 2)	SOIL	3	COMPOSITE-GRAB (1)	SOIL BELOW TANK	[illegible]2-5-89
[illegible]4-04-C3	TOTAL PCB	<5.ppm	4-11 (see fig 2)	SOIL	8	COMPOSITE-GRAB (1)	EXCAVATED SOIL FROM PILE	12-5-89
UST14-04-C4	TOTAL PCB	<5.ppm	12 (see fig 2)	SOIL	1	DISCRETE-GRAB	VISUALLY STAINED SOIL	12-5-89
UST14-04-C5	pH PHOSPHATES	9.0 1,100.ppm	1-3 (see fig 2)	SOIL	3	COMPOSITE-GRAB (2)	SOIL BELOW TANK	12-5-89
UST14-04-C6	pH PHOSPHATES	9.9 670.ppm	4-11 (see fig 2)	SOIL	8	COMPOSITE-GRAB (2)	EXCAVATED SOIL FROM PILE	12-5-89
UST14-04-C7	pH PHOSPHATES	7.2 1,800.ppm	12 (see fig 2)	SOIL	1	DISCRETE-GRAB	VISUALLY STAINED SOIL	12-5-89

NOTES: (1) SAMPLES WERE COLLECTED ON A DISCRETE BASIS (ONE SAMPLE PER LOCATION) AND SENT TO THE LAB WITH THE INSTRUCTIONS TO COMPOSITE EQUAL WEIGHTS AND ANALYZE FOR TOTAL PCB'S. RESULTS REPORTED ABOVE ARE FOR COMPOSITE SAMPLES

(2) SAMPLES WERE COLLECTED ON A COMPOSITE BASIS (FIELD COMPOSITE). REPRESENTATIVE SAMPLES WERE COLLECTED FROM EACH LOCATION AND PLACED INTO A SINGLE JAR FOR Analysis ?

Pete sent me
Verbatim

BLASLAND AND BOUCK ENGINEERS P.C.

TO:FILES
FROM:ROBERT RHOADES
Re:UST14-04 REMOVAL

DATE:12-20-89
FILE NO:435.01.01
cc:PETE WOJCIK

October 26 and

The following is a summary of sample results for the sampling conducted on December 5, 1989 for UST 14-04. A drawing showing the sample locations is attached (see figure 1). Analytical report copies provided by OBG Laboratories have been included for your information. In addition, sampling notes pertaining to this tank have been included.

LAB ID	REQUIRED ANALISIS	SAMPLE RESULTS	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE DESCRIPTION
UST14-04-C1	10-26-89 Tox PCB	<5.ppm	#1	GRAB-LAB COMPOSITE	CONCRETE, FULL CORE
			#2	GRAB-LAB COMPOSITE	CONCRETE, FULL CORE
			#3	GRAB-LAB COMPOSITE	CONCRETE, FULL CORE
			#4	GRAB-LAB COMPOSITE	CONCRETE, FULL CORE
			#5	GRAB-LAB COMPOSITE	CONCRETE, FULL CORE
			#6	GRAB-LAB COMPOSITE	CONCRETE, FULL CORE
			#7	GRAB-LAB COMPOSITE	CONCRETE, FULL CORE
UST14-04-C2	PCB	<5.ppm	#1	GRAB-LAB COMPOSITE	SOIL BELOW TANK
			#2	GRAB-LAB COMPOSITE	SOIL BELOW TANK
			#3	GRAB-LAB COMPOSITE	SOIL BELOW TANK
UST14-04-C3	PCB	<5.ppm	#4	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
			#5	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
			#6	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
			#7	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
			#8	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
			#9	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
			#10	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
			#11	GRAB-LAB COMPOSITE	EXCAVATED SOIL FROM PILE
UST14-04-C4	PCB	<5.ppm	#12	GRAB-DISCRETE	VISUALLY STAINED SOIL
UST14-04-C5	pH	9.0	#1	GRAB-FIELD COMPOSITE	SOIL BELOW TANK
	PHOSPHATES	1,100.ppm	#2	GRAB-FIELD COMPOSITE	SOIL BELOW TANK
			#3	GRAB-FIELD COMPOSITE	SOIL BELOW TANK
UST14-04-C6	pH	9.0	#4	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
	PHOSPHATES	670.ppm	#5	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
			#6	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
			#7	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
			#8	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
			#9	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
			#10	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
			#11	GRAB-FIELD COMPOSITE	EXCAVATED SOIL FROM PILE
UST14-04-C7	pH	7.2	#12	GRAB-DISCRETE	VISUALLY STAINED SOIL
	PHOSPHATES	1,000.ppm			

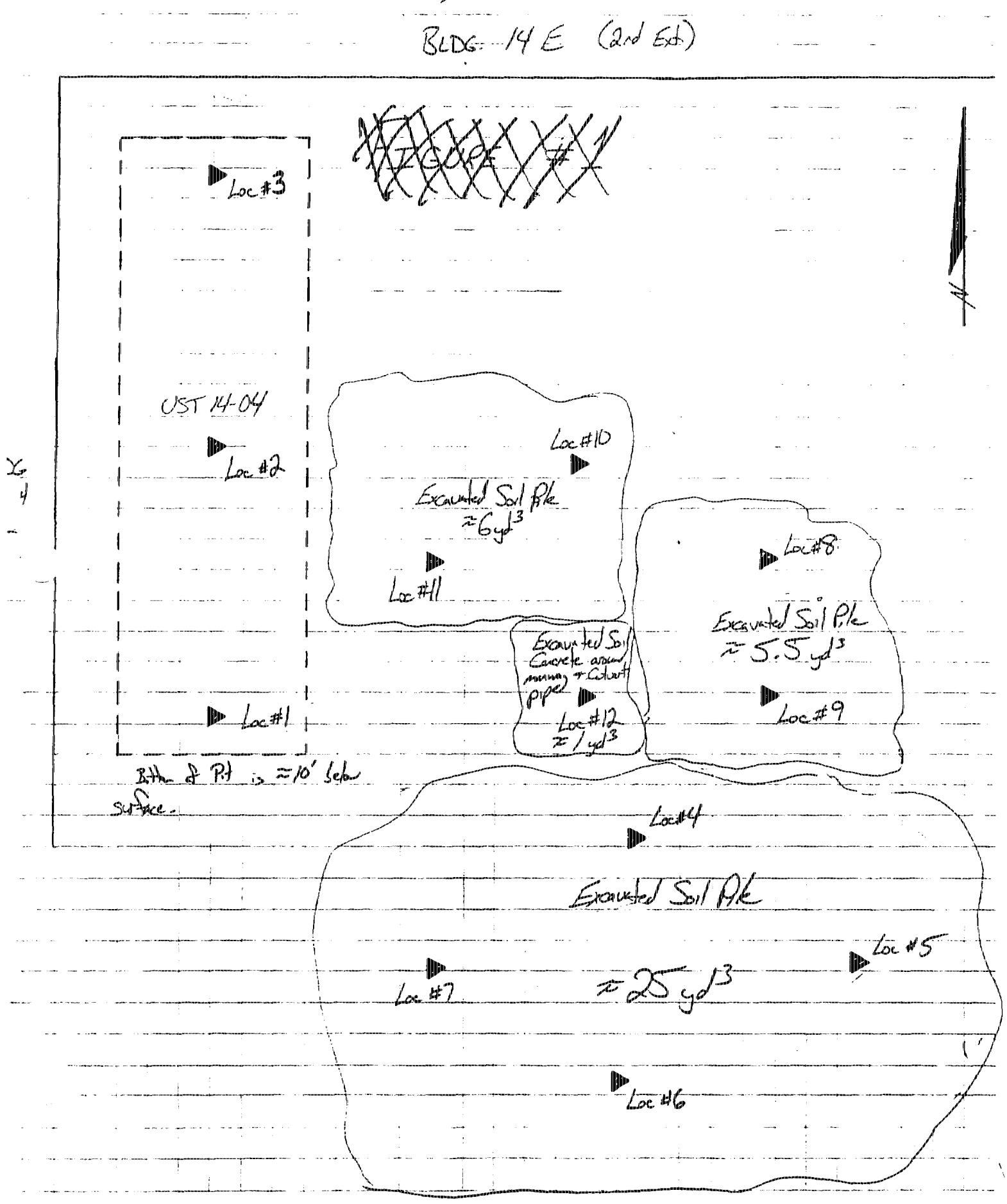
BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
UST 14-04 Removal Soil Sampling	435-01-01	RJP		

Sample ID	Analysis	Results	Sample Location	Sample Type	Sample Description
UST 14-04-C2	PCB	<5. ppm	1,2,3	Grab-Lab Composite	Soil directly beneath tank
UST 14-04 C3	PCB	<5. ppm	4-11	Grab-Lab Comp.	Excavated Soil
UST 14-04-C4	PCB	<5. ppm	12	Grab	Stained Soil
UST 14 04-C5	pH Phosphates	9.0 1100. ppm	1-3	Grab-field Comp.	Soil directly beneath tank
UST 14-04-C6	pH Phosphates	9.9 670. ppm	4-11	Grab-field Composite	Excavated Soil
UST 14 04-C7	pH Phosphates	7.2 1800. ppm	12	Grab	Soil directly beneath tank Stained Soil
UST 14-04-C8	Turned over to Pete Wojcik.				
UST 14 04-C9	VOC: Method		15	Grab-Discrete	Excavated Soil chosen from HNU Screening of Less 1
UST 14-04 C10	VOC: Method		17	Grab-Discrete	Excavated Stained Soil. Chose from HNU Screening of Less 1
UST 14-04-C11	VOC: Method		18	Grab Discrete	Excavated Soil Chosen from HNU Screening of Less 1

BLASLAND & BOUCK ENGINEERS, P.C.

JECT	PROJ. NO.	BY	DATE	SHEET
UST 14-04 : Tank Removal Soil Sampling	435.01.01	ESP	11-30-89	



UST REMOVAL PROGRAM

HEAD SPACE SCREENING

435-01-01

UST ID NO: UST A-04
DATE: ~~RSP~~ 12-5-87
OPERATOR: RSP

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)
#1	1.0	0.8
#2	10.0	9.8
#3	5.4	5.4
#4	0	0
#5	0.8	1.0
#6	0.4	0.6
#7	0.2	0.1
#8	0.9	1.1
#9	3.5	3.9
#10	.8	.8
#11	0	0
#12	3.8	3.8

UST REMOVAL PROGRAM

HNU CALIBRATION

435-01-01

UST ID NO: UST 14-04
DATE: 12-5-89
OPERATOR: RSP

HNU SERIAL NO: 601586
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 64. ppm

INITIAL READING: 9.8 span setting @ 70. ppm

ADJUSTED SETTING: 9.9 span setting @ 64. ppm

NOTES:

Cleaned lamp source after initial reading.

UST REMOVAL PROGRAM

HEAD SPACE SCREENING

· 435-01-01

UST ID NO: UST 14-04
DATE: 2-21-90
OPERATOR: RJP

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)
13	0.2	0.0
14	0.2	0.2
15	4.0	3.8
16	2.2	2.4
17	2.6	2.2
18	9.5	9.0
19	0.6	0.2
20	0.8	0.4

UST REMOVAL PROGRAM

HNU CALIBRATION

435-01-01

UST ID NO: UST 14-04
DATE: 2-21-90
OPERATOR: RSP

HNU SERIAL NO: 601586
eV OF PROBE: 10.2

CALIBRATION GAS: 9.8 span setting @ 64. ppm

INITIAL READING: 9.8 span setting @ 66. ppm

ADJUSTED SETTING: 99 span setting @ 64. ppm

NOTES:

1373

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 435-01-01

DATE COLLECTED See Below DATE REC'D. 12/5/89 DATE ANALYZED 12/6/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/kg wet wt	PCTS (%)	Total PCB mg/kg dry wt	COMMENTS	QC RESULTS
UST14-04-C2	12/6/89	12/5/89	< 3.5	90	< 5.	Soil Composite	A
" C3	"	"	< 3.5	85.9	< 5.	"	"
" C4	"	"	< 3.5	87.5	< 5.	"	"
A1 Lab Blank 1	12/6/89		---	---	< 5.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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, MA Job No. 435.01.01

DATE COLLECTED See Below DATE REC'D. 12-5-89 DATE ANALYZED 12-5-89

LAB ID NO.	DATE SAMPLED	PCB mg/kg dry weight	COMMENTS	QC RESULTS
UST14-04-C2	12-5-89	<5.	Soil Comp.	A
UST14-04-C3		<5.		
UST14-04-C4		<5.		
A) Lab Blank 1	12-5-89	<5.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

LABORATORIES, INC.

Laboratory Report

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.013.517

DESCRIPTION G E Pittsfield
UST 14-04 Removal (Soils)

DATE COLLECTED 12-5-89 DATE REC'D. 12-6-89 DATE ANALYZED

Description	Sample #	pH STD. UNITS	PHOSPHORUS mg/kg dry wt.	PERCENT TOTAL SOLIDS
UST14-04-C5	J4391	9.0	1100.	87.5
UST14-04-C6	J4392	9.9	670.	85.5
UST14-04-C7	J4393	7.2	1500.	83.6

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: D A Burke

Date: December 21, 1989

OBG Laboratories, Inc., an O'Brien & Gere Limited Company
Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet ____ of ____

PROJECT: GE PITTSFIELD
JOB No.: 435-01-01

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
UST 14-04-C1	UST 14-04 LOC 1	10-26-89	CONCRETE
	UST 14-04 LOC 2	10-26-89	CONCRETE
	UST 14-04 LOC 3	10-26-89	CONCRETE
	UST 14-04 LOC 4	10-26-89	CONCRETE
	UST 14-04 LOC 5	10-26-89	CONCRETE
	UST 14-04 LOC 6	10-26-89	CONCRETE

CHECK ONE:

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

AIR BILL No.:

		Company	Lab Location	Date / Time
1. Relinquished by:	Bruce Eulin	BLASLAND & BOUCK	GE PITTSFIELD	10-26-89 : 14:00
Received by:	Kenneth Tindley	O & G Lab	" "	10/26/89
Relinquished by:				
Received by:				

SAMPLE DISPOSAL: ☐ Return to GE ☒ Disposal by Lab

Date of Disp.: 11/30/89 Kenneth Tindley

BLASLAND & BOUCK ENGINEERS, P.C.

CHAIN-OF-CUSTODY

Sheet 1 of 2

PROJECT : GE PITTSFIELD
JOB No. : 4350101

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
UST 14-04-C2	UST 14-04-Loc 1	12-5-89	S.1
	UST 14-04-Loc 2	12-5-89	S.1
	UST 14-04-Loc 3	12-5-89	S.1
UST 14-04-C3	UST 14-04-Loc 4	12-5-89	S.1
	UST 14-04-Loc 5	12-5-89	S.1
	UST 14-04-Loc 6	12-5-89	S.1
	UST 14-04-Loc 7	12-5-89	S.1
	UST 14-04-Loc 8	12-5-89	S.1
	UST 14-04-Loc 9	12-5-89	S.1
	UST 14-04-Loc 10	12-5-89	S.1
	UST 14-04-Loc 11	12-5-89	S.1

CHECK ONE:

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

AIR BILL No. : Delivered to ORC

		Company	Lab Location	Date / Time
1. Relinquished by:	[signature]	B&B	GE Lab	12-5-89 / 15:45
Received by:				
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 2 of 2

PROJECT : GE PITTSFIELD
JOB No.: 435.01.01

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
UST 14-04-C4	UST 14-04-Loc 12	12-5-89	Soil

CHECK ONE:

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

AIR BILL No.: Delivered to OBG Lab

		Company	Lab Location	Date / Time
1.	Relinquished by:	B&BE	GE Pitts	12-5-89/15:45
	Received by:			
	Relinquished by:			
	Received by:			

SAMPLE DISPOSAL: ☐ Return to GE ☐ Disposal by Lab

Date of Disposal _____ Signature _____

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

CHAIN OF CUSTODY RECORD

PROJECT NO. 455.0101 | PROJECT NAME GE Plastics UST 14-04 Removal Sampling

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	pH	Phosphates				REMARKS
UST14-04-C5		12/5/89	1520	X		X			1	X	X				
UST14-04-C6		12/5/89	1355	X		X			1	X	X				
UST14-04-C7		12/5/89	1545	X		X			1	X	X				

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	12/5/89 1400		[signature]	12/5/89 1600	Fed X
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Fed X					
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
		Drew Barnes	12/6/89 1400	Max analyze on a rush basis	

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 435.014

PROJECT NAME: GE Pittsfield UST 14-04 Removal Sampling

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	pH	Phosphates				REMARKS
UST1404-C5		12589	1520	X		X			1	X	X				
UST1404-C6		12589	1535	X		X			1	X	X				
UST1404-C7		12589	1545	X		X			1	X	X				

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[illegible]	12589 / 1400		[illegible]	12589 / 1620	Fed X

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

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

REMARKS: Please analyze on a rush basis
FdX No. [illegible]

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

CHAIN OF CUSTODY RECORD

PROJECT NO.

PROJECT NAME General Electric Co. Pittsfield Mass. UST Sampling Program

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	REMARKS
UST 14-04-C8		1-25-90	15:00		X	X			1	

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	1-25-90 15:30	[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	

413-494-
315-446-9120

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.87.05
PROJECT NAME: GE Pittsfield UST Sampling

LAB ID	For I.D.	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	VOC by EPA Method 8240	REMARKS
UST 14-04-C9	UST14-04-L.K	22390	09:15		X	X			2	X	
UST 14-04-C10	UST 14-04-L.K	22390	09:20		X	X			2	X	
UST 14-04-C11	UST 14-04-L.K	22390	09:25		X	X			2	X	

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	22390 09:30		[signature]	22390 17:35	[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	

R.R.

Transmittal

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

To: Mr. Peter J. Wojcik
Environmental Programs Analyst
General Electric Company
100 Woodlawn Avenue
Pittsfield, MA 01201

Date: March 27, 1990

File: 101.82 #2

Re: GE Pittsfield - UST VOC Results

Gentlemen: We are sending you ___X___ herewith _____ under separate cover

_____ drawings _____ letters ___X___ other

material received is not as listed, please notify us at once.

on.	Identifying Number	Title	Action*
	UST 14-04	VOC Results for Samples C9, C10 and C11	I
	UST 36A	VOC Results for Samples C6, C7, C8, C9 and C10	I
	UST 36-04	VOC Results for Samples C3 and C4	I
	UST 36-05	VOC Results for Samples C1 and C2	I
	UST 36-06	VOC Results for Samples C7 and C8	I
	UST 36A	VOC Results for Samples C11 and C12	I

Action letter code: R - reviewed N - reviewed and noted I - for your information
S - resubmit J - rejected Y - for your approval

emarks:

ete:

y question concerning the above information, please do not hesitate to call.

cc:

truly yours,

AND & BOUCK ENGINEERS, P.C.

Robert W. Rhoades
irector, Field Services

OBG LABORATORIES, INC.

Purgeable Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.013.517

DESCRIPTION G.E., Pittsfield - UST Program - Soils

UST14-04-C9

SAMPLE NO. J7177 DATE COLLECTED 2-23-90 DATE REC'D. 2-26-90 DATE ANALYZED 5-1-90

	ppb		ppb
Chloromethane	<11.	t-1,3-Dichloropropene	<6.
Bromomethane		Trichloroethene	
Vinyl chloride		Benzene	
Chloroethane		Dibromochloromethane	
Methylene chloride	<6.	1,1,2-Trichloroethane	
1,1-Dichloroethene		c-1,3-Dichloropropene	
1,1-Dichloroethane		2-Chloroethylvinyl ether	<11.
t-1,2-Dichloroethene		Bromoform	<6.
Chloroform		1,1,2,2-Tetrachloroethane	
1,2-Dichloroethane		Tetrachloroethene	
1,1,1-Trichloroethane		Toluene	
Carbon tetrachloride		Chlorobenzene	
Bromodichloromethane		Ethylbenzene	
1,2-Dichloropropane		Xylenes	

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

UNITS: µg/kg dry weight

Comments:

Acetone	26.B
Carbon Disulfide	<6.
2-Butanone	<11.
Vinyl acetate	
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<6.

Other Analysis:

PERCENT TOTAL SOLIDS 87.

Values flagged with a "B" indicate that the analyte was detected in the blank as well as the sample. The blank exhibited 10ppb Acetone.

Authorized: [signature]

Date: March 22, 1990

OBG LABORATORIES, INC.

Purgeable Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.013.517

DESCRIPTION G.E., Pittsfield - UST Program - Soils

UST14-04-C10

SAMPLE NO. J7178 DATE COLLECTED 2-23-90 DATE REC'D. 2-26-90 DATE ANALYZED 3-1-90

	ppb		ppb
Chloromethane	<12.	t-1,3-Dichloropropene	<6.
Bromomethane		Trichloroethene	
Vinyl chloride		Benzene	
Chloroethane		Dibromochloromethane	
Methylene chloride	<6.	1,1,2-Trichloroethane	
1,1-Dichloroethene		c-1,3-Dichloropropene	
1,1-Dichloroethane		2-Chloroethylvinyl ether	<12.
t-1,2-Dichloroethene		Bromoform	<6.
Chloroform		1,1,2,2-Tetrachloroethane	
2-Dichloroethane		Tetrachloroethene	
1,1,1-Trichloroethane		Toluene	
Carbon tetrachloride		Chlorobenzene	
Bromodichloromethane		Ethylbenzene	
1,2-Dichloropropane		Xylenes	

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

UNITS: µg/kg dry weight

Comments:

Acetone	18.B
Carbon Disulfide	<6.
2-Butanone	<12.
Vinyl acetate	
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<6.

Other Analysis:

PERCENT TOTAL SOLIDS 85.

Values flagged with a "B" indicate that the analyte was detected in the blank as well as the sample. The blank exhibited 10ppb Acetone.

Authorized: [signature]

Date: March 22, 1990

OBG LABORATORIES, INC.

Purgeable Priority Pollutants

CLIENT BLASLAND & BOUCK ENGINEERS, P.C. JOB NO. 2887.013.517

DESCRIPTION G.E., Pittsfield - UST Program - Soils

UST14-04-C11

SAMPLE NO. J7179 DATE COLLECTED 2-23-90 DATE REC'D. 2-26-90 DATE ANALYZED 3-1-90

	ppb		ppb
Chloromethane	<12.	t-1,3-Dichloropropene	<6.
Bromomethane		Trichloroethene	
Vinyl chloride		Benzene	
Chloroethane		Dibromochloromethane	
Methylene chloride	<6.	1,1,2-Trichloroethane	
1,1-Dichloroethene		c-1,3-Dichloropropene	
1,1-Dichloroethane		2-Chloroethylvinyl ether	<12.
t-1,2-Dichloroethene		Bromoform	<6.
Chloroform		1,1,2,2-Tetrachloroethane	
1,2-Dichloroethane		Tetrachloroethene	
1,1,1-Trichloroethane		Toluene	
Carbon tetrachloride		Chlorobenzene	
Bromodichloromethane		Ethylbenzene	
1,2-Dichloropropane		Xylenes	

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

UNITS: µg/kg dry weight

Comments:

Acetone	22.B
Carbon Disulfide	<6.
2-Butanone	<12.
Vinyl acetate	
4-Methyl-2-pentanone	
2-Hexanone	
Styrene	<6.

Other Analysis:

PERCENT TOTAL SOLIDS 86.

Values flagged with a "B" indicate that the analyte was detected in the blank as well as the sample. The blank exhibited 10ppb Acetone.

Authorized: [signature]

Date: March 22, 1990

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

315·446·91

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME
618205	GE Pittsfield UST Sampling

LAB ID	Jar I.D.	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	WIPE	WATER	NO. OF CONTAINERS	VOC EPA 8240					REMARKS
UST 14-01-C9	UST 14-01-6-6	22390	09:15		X	X			2	X					
UST 14-01-C10	UST 14-01-6-7	22390	09:20		X	X			2	X					
UST 14-01-C11	UST 14-01-6-8	22390	09:25		X	X			2	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	22390 09:30		[signature]	22390 17:35	[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] Barnes	2/26/90 0825	

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

11/16/, 89.

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

C.82 S.40 M.G.L.
DIG SAFE NUMBER
GENERAL ELECTRIC
Start Date 11/16/89

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A this permit is granted to

Name: CLEAN BERKSHIRES
Full name of person, firm or Corporation

To transport underground steel storage tank(s) to Approved tank yard# 06101

State clearly type of Inert gas used in steel storage tank (14-04)

steel tank: NOT REQUIRED
method

FDID# 03236

Fee paid $ 10

Name and address of contractor disposing tank MA TANK DISPOSAL, CHICOPEE, MA

Location to which tank will be transported

06101
Approved tank yard

This permit will expire Dec 6 19 89

Signature of official granting permit (TITLE)
(Head of Fire Dept.)

R.L.B.

Area Environmental & Facility Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

Dial Comm

MEMORANDUM

TO: Grant Bowman

FROM: Kristen F. Begor KFB

DATE: 8 May 1990

RE: Detailed Study of F1 Concrete Core Area Between Buildings 14 and 100

As part of the March 1990 well installation program conducted by Geraghty & Miller along the Building 14/100 corridor, the concrete was cored at each well location. With the exception of the F1 concrete core sample, all of the PCB values of the concrete were below 11 ppm with the average <2 ppm. The F1 concrete core sample had the highest PCB value (730 ppm).

In our letter of April 17, 1990 to the DEP we informed them that we were "proceeding to perform a detailed study of the concrete in the F1 area to determine the extent of contamination of the concrete". As a way of placing limits on this study, I would suggest that we restrict the sample area to a 3-foot square from which we will obtain 3 additional core samples. Based on the analytical results, we will then decide how to dispose of the concrete within just those boundaries and leave it at that.

We could get into an endless struggle to find that <50 ppm sample of concrete if we don't place some restrictions on the study!

cc: Bruce Eulian, Blasland & Bouck

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG 14 R.R. TRACK CONCRETE SAMPLING	101-75-03	HE	2/12/90	

Request for Sampling

Date: 2-2-90

Initiator: Kristen Begor

BLDG. Location: Outside Bldg. 14

Contact Person Kristen Begor Ext. 8737

Item Description

1) Concrete cores

2)

Notes: A core saw was used by the contractors to remove the concrete at various locations between Bldg 14 and Bldg 100. Concrete cores were placed on a pallet and brought to Bldg 12Y. Sampling program was conducted on a discrete-full core basis.

BOWMAN (GB)
4-13-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Robert W. Rhoades
Re: Bldg.14 R.R. Track Concrete Sampling

Date: 03/08/90
File No: 101-75-03
cc: Grant Bowman
cc: KRISTEN BEGOR

The following is a summary of the sample results for the PCB sampling program conducted in Bldg.12Y. A drawing showing the sample location is attached (see figure 1,2). An analytical Report provided by OBG Laboratories has also been included.

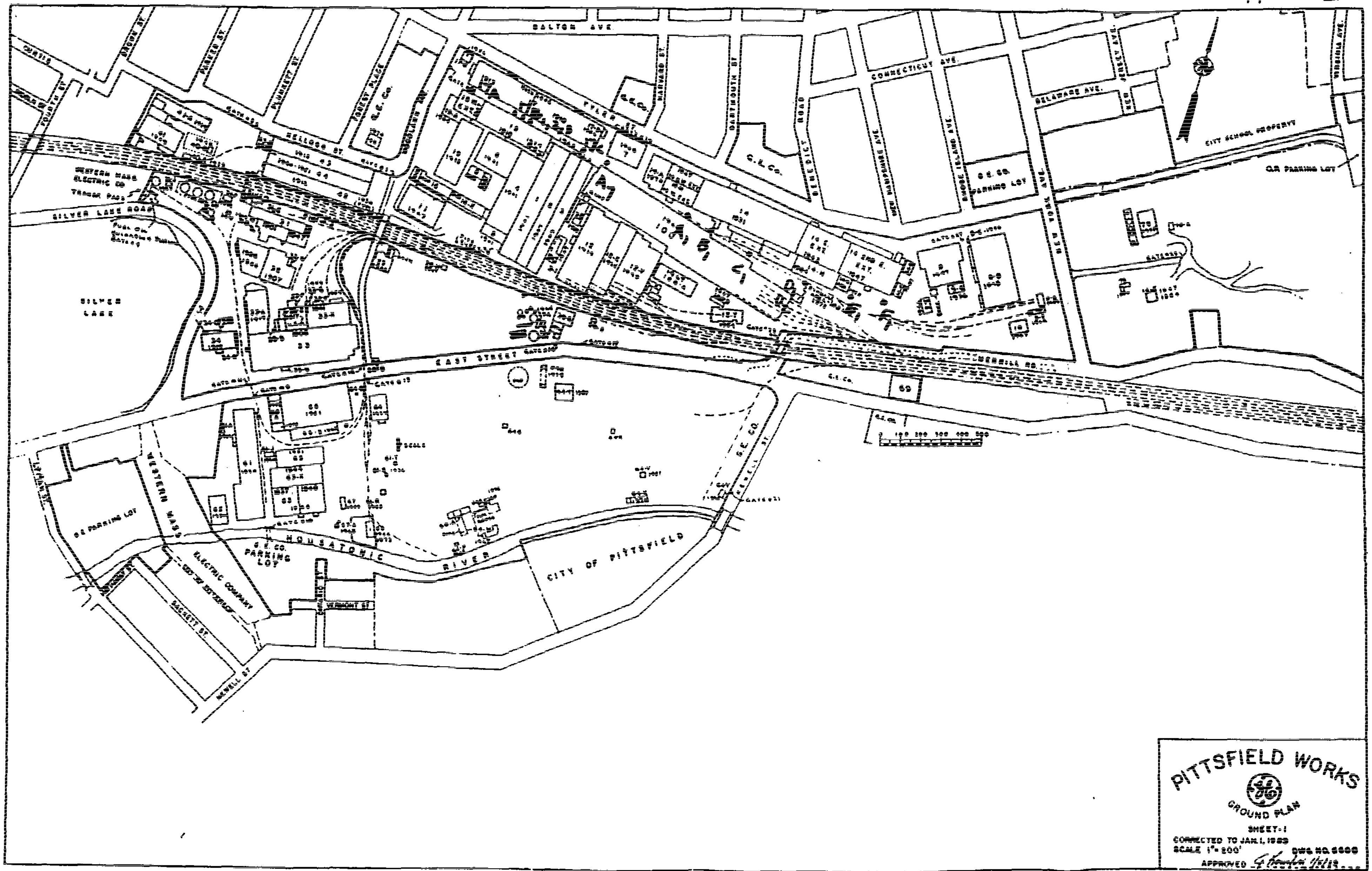
PCB SAMPLING RESULTS

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SAMPLE DATE
14-A1-C45	<2	A1	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A2-C46	<2	A2	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A3-C47	<2	A3	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A4-C48	<2	A4	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A5-C49	<2	A5	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A6-C50	<2	A6	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A8-C51	<2	A8	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A9-C52	<2	A9	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A10-C53	<2	A10	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-A11-C54	11	A11	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-B1-C55	<2	B1	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-B2-C56	<2	B2	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-B3-C57	<2	B3	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-B4-C58	<2	B4	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-B5-C59	2	B5	CONCRETE	DISCRETE-CORE	0"-7"	03/06/90
14-17A-C117	<2	17A	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90
14-17B-C118	<2	17B	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90
14-17C-C119	<2	17C	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90
14-E1-C120	<2	E1	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SAMPLE DATE
14-F1-C121	730	F1	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90
14-A7-C122	<2	A7	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90
14-D1-C123	<2	D1	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90
14-D2-C124	<2	D2	CONCRETE	DISCRETE-CORE	0"-7"	03/27/90

bee

FIGURE 2



FS P15 F3

FIGURE 1

GERAGHTY & MILLER, INC.
Environmental Services

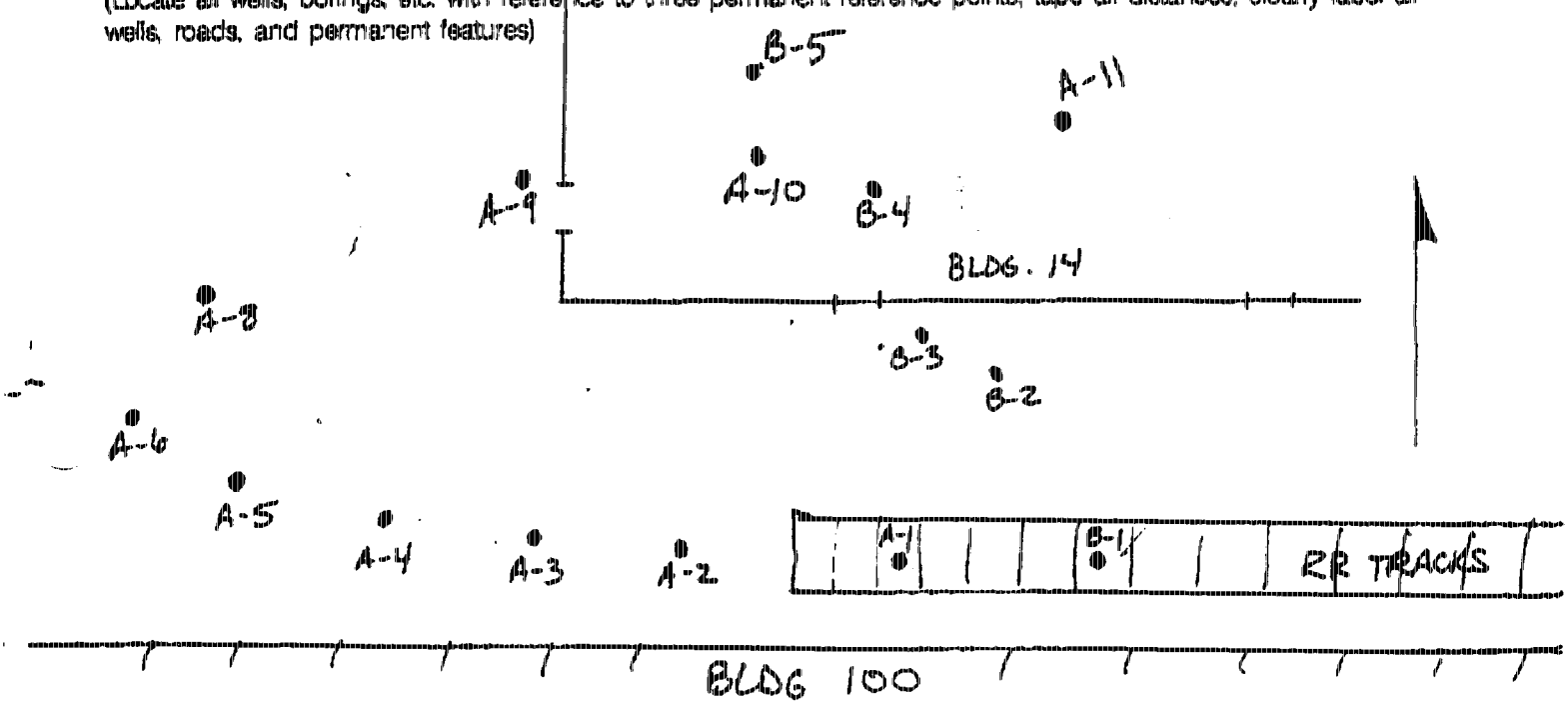
LOCATION SKETCH

Well(s)_____ Project/No. _____ Page_____ of_____

Site Location _____

Observer _____

(Locate all wells, borings, etc. with reference to three permanent reference points; tape all distances; clearly label all wells, roads, and permanent features)



BORINGS NOT SATURED YET: A-1
B-1
A-7

NOTE: SCALE APPROXIMATE

0 ft. _____ ft.

1193

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION: G.E., Pittsfield Job No. 101-75-03

DATE COLLECTED: See Below DATE REC'D. 3/6/90 DATE ANALYZED 3/8/90

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg	PCTS	Total PCB mg/Kg	COMMENTS	QC RESULTS
14-A1-C45	3/7/90	3/6/90			<2.	concrete	A
A2-C46	↓	↓			<2.	↓	↓
A3-C47					<2.		
A4-C48					<2.		
A5-C49					<2.		
A6-C50					<2.		
A8-C51					<2.		
A9-C52					<2.		
A10-C53					<2.		
A11-C54					11		
A) Duplicate of 14-A10-C53					<2. vs <2.		% RPD=?
Matrix Spike of 14-A11-C54					6.21 [illegible] 5.92	105%	Recovery
Lab Blank 3/7/90					<2.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized:

OBG Laboratories, Inc.

Date:

1494

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-03

DATE COLLECTED See Below DATE RECD. 3/6/90 DATE ANALYZED 3/8/90 → 3/9/

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/kg	PCTS	Total PCB mg/kg	COMMENTS	QC RESULTS
14-81-C55	3/8/90	3/6/90			< 2.		A
82-C56	↓	↓			< 2.		
83-C57					< 2.		
84-C58					< 2.		
85-C59					2.	↓	↓
A) Duplicate of 14-85-C59 Lab Blank					2. /	vs 2.	1.00 Dec

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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

OBG LABORATORIES, INC.

1530

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-03

DATE COLLECTED See Below DATE REC'D. 3/27/90 DATE ANALYZED 3/28/90 → 3/29/

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/kg	PCTS	Total PCB mg/kg	COMMENTS	QC RESULTS
14-17A-C117	3/28/90,	3/27/90			< 2.	Concrete	A
17B-C118					< 2.		
17C-C119					< 2.		
E1-C120					< 2.		
F1-C121			722		730		
A1-C122					< 2.		
01-C123					< 2.		
02-C124					< 2.		
A1 Duplicate of 14-01-C123					< 2.	vs < 2.	Duplicate ?
Matrix Spike of 14-02-C124					10.42 = 89%		Recovery
Lab Blank / 3/28/90					< 2.		
Duplicate of 14-F1-C121					980	vs 730	Duplicate?

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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

APPENDIX L, SECTION 4

GERAGHTY & MILLER, INC.
Ground-Water Consultants

September 16, 1987

Mr. Mark Valentine
General Electric Company
Mail Drop #OP42-306
100 Plastics Avenue
Pittsfield, Massachusetts 01201

Re: Building 100 Soil Boring Program (Project No. N0360BD1)

Dear Mark:

Geraghty & Miller, Inc. conducted a soil boring program adjacent to the eastern end of Building 100 in Pittsfield, Massachusetts during August 12 to 13, 1987. The soil boring program was designed to determine PCB concentrations in the soil as well as the presence of volatile organic chemicals (VOCs) in an area being considered for future construction. Some of the original soil boring locations were moved because of poor accessibility.

Two construction plans for the area were proposed by General Electric Company (GE) and we have identified them as Plan A and Plan B on Figure 1. The objective of the soil boring program was to collect soil samples for chemical analysis along the perimeter of both plans at locations approximately 25 to 30 feet apart. A representative of Geraghty & Miller, Inc. directed the drilling subcontractor (Soil & Material Testing, Inc., Castelton, New York) as each

125 East Bethpage Road • Plainview, New York 11803 • (516) 249-7600
Cable: WATER • Telecopy: (516) 249-7610

boring was completed to approximately 6 feet below land surface which includes a 2-ft safety margin. All appropriate underground utility maps were reviewed in the field with GE personnel prior to the drilling operation.

Access holes were installed with a jackhammer into the concrete slab (1 to 1.7 feet thick) that covered the study area. The drilling locations for Borings 100-7, 100-10 and 100-12 were all shifted to the north as a result of a buried concrete slab or footing at 2 to 2.5 feet below grade. Other soil boring locations also had to be shifted due to either overhead structures (Borings 100-1, 100-2, 100-3, and 100-6) or railroad tracks (Borings 100-9 and 100-11).

At each drilling location, split spoon samples were collected continuously, described, wrapped in aluminum foil and placed in Zip-Lock™ plastic bags for PCB analysis. Each sample was screened in the field for naturally occurring and/or man-made VOCs using a TIP™ photoionization meter, which provides only qualitative results. As volatile vapors were detected at relatively low concentrations, near background levels, no further analyses for VOCs were performed (Table 1).

Fill material was encountered in 10 of the 12 soil borings (see geologic logs - Appendix A). Only Borings 100-1 and 100-2 did not contain any fill. The fill material is

generally composed of silty sand and gravel with ash and cinders. The natural sediments that were encountered at Borings 100-1 and 100-2 are composed of poorly sorted silty sand and gravel. In addition, a dense sandy silt layer was found below the fill material at Boring 100-11.

Each soil sample sample was sent to IT Analytical Services, Inc. (Knoxville, Tennessee) for PCB analysis and replicate samples are being retained for future analysis, if needed. The results of the PCB analyses are provided in Table 2. All samples had less than 50 ppm (parts per million) with the exception of Boring 100-5 (50 ppm @ 1.5 to 2 feet) and Boring 100-8 (120 ppm @ 2 to 4 feet). At each of these two locations, dark brown or black stained sediments were present in comparison to lighter colored fill material. Dark brown or black stained sediments were not observed at other borings. The location of Boring 100-8 was selected outside of the proposed construction area because an underground electric cable is present in the vicinity of the proposed location. Therefore, Boring 100-8 was located approximately 15 feet to the west of the original location in a grassy area between nearby railroad tracks. This site represented the nearest location to the proposed building perimeter (under Plan A) that could be safely selected without the knowledge of the exact location of the underground electric line.

All soil sampling equipment was thoroughly scrubbed with a laboratory grade detergent (MICRO™) solution and rinsed in distilled water between the collection of samples. All drilling and sampling equipment was steam cleaned prior to arrival onsite, between each borehole, and at the completion of the project.

If you have any questions or need additional information, do not hesitate to call us.

Sincerely,

GERAGHTY & MILLER, INC.

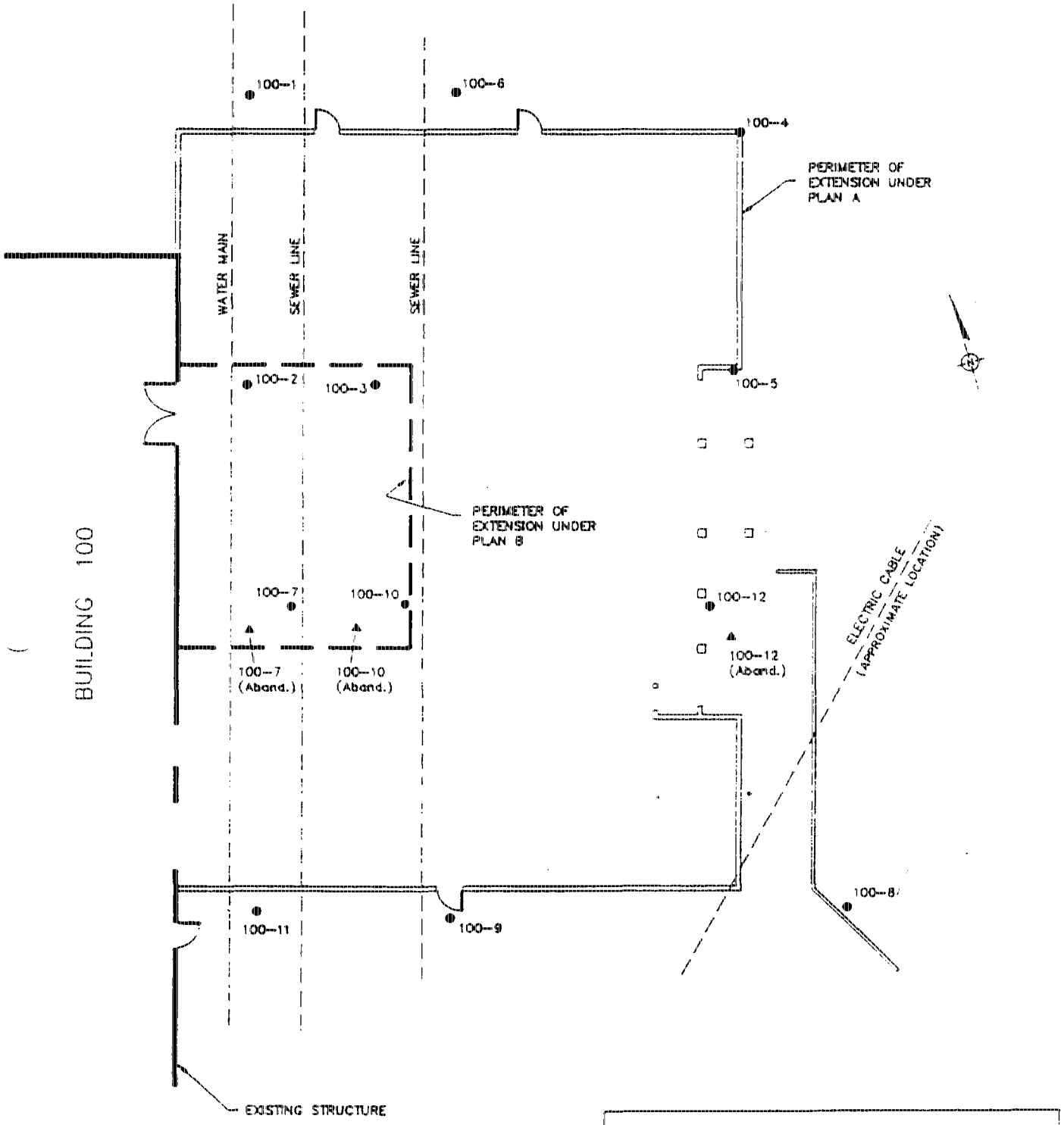
Dennis Colton
Senior Scientist

Ellis Koch
Vice President

DC/EK/fm

GERAGHTY & MILLER, INC.
Ground-Water Consultants

COMPILED BY:	D. Colton	DATE: 8-87	SCALE: shown	PREPARED FOR: GENERAL ELECTRIC COMPANY Pittsfield, Massachusetts
PREPARED BY:	W.H. Ciolo	FILE NO:		
PROJECT MGR.:	D. Colton	NO360801-		



EXPLANATION

100--1 SOIL BORING LOCATION AND DESIGNATION

ABANDONED SOIL BORING

JOB:

BUILDING 100 — LOCATION MAP

FIGURE 1

Table 1. TIP™ Results for Building 100 Investigation, General Electric Company, Pittsfield, Massachusetts.

Boring	Total Depth (ft)	Thickness of Concrete (ft)	Interval Sampled (ft)	TIP Reading (ppm)	Ambient TIP Reading (ppm)
100-1	6	1	1-2	0.3	0.2
			2-4	0.4	
			4-6	0.3	
100-2	6	1.2	1.2-2	0.4	0.2
			2-4	0.4	
			4-6	0.8	
100-3	6.5	1.7	1.7-2.5	1.2	1.1
			2.5-4.5	2.0	
			4.5-6.5	1.8	
100-4	6	1	1-2	1.5	1.1
			2-4	1.2	
			4-6	1.6	
100-5	6	1.2	1.2-2	1.5	1.1
			2-4	1.4	
			4-6	1.6	
100-6	5.25	1	1-2	0.7	0.6
			2-4	0.8	
			4-6	0.7	
100-7	6	1	1-2	2.2	0.3
			2-4	1.6	
			4-6	1.5	
100-8	6	0	0-2	0.3	0.2
			2-4	0.3	
			4-6	0.2	
100-9	6.5	1.5	1.5-2.5	1.1	0.4
			2.5-4.5	2.7	
			4.5-6.5	2.4	
100-10	6	1	1-2	3.7	0.3
			2-4	0.5	
			4-6	0.4	
100-11	6.5	1.5	1.5-2.5	1.5	0.8
			2.5-4.5	3.7	
			4.5-6.5	2.0	
100-12	6	1	1-2	1.6	0.8
			2-4	1.0	
			4-6	2.1	

Table 2. Summary of PCB Concentrations in Soil, Building 100 Investigation, General Electric Company, Pittsfield, Massachusetts[a]

Soil Boring No.	Depth (feet below land surface)	Aroclor 1016, 1232 1242 and/or 1248[b]	Aroclor 1254	Aroclor 1260	Total Aroclors
100-1	1 - 2	<0.05	0.37	2.3	2.7
	2 - 4	<0.05	0.11	1.2	1.3
	4 - 6	<0.05	<0.05	<0.05	<0.05
100-2	1.6-2	<0.05	0.17	1.7	1.9
	2 - 4	<0.05	<0.05	0.47	0.47
	4 - 6	<0.05	0.30	1.3	1.6
100-3	1.7-2.5	<0.05	<0.09	2.4	2.4
	2.5-4.5	<0.05	0.31	3.2	3.5
	4.5-6.5	<0.05	0.40	0.17	0.57
100-4	1 - 2	<0.05	<0.05	<0.05	<0.05
	2 - 4	<0.05	<0.05	<0.05	<0.05
	4 - 6	<0.05	<0.05	<0.05	<0.05
100-5	1.2-2	<0.2	38	12	50. -
	2 - 4	<0.05	1.8	2.0	3.8
	4 - 6	<0.05	<0.05	<0.05	<0.05
100-6	1 - 2	<0.05	0.28	0.11	0.39
	2 - 4	<0.05	<0.05	<0.05	<0.05
	4 - 5	<0.05	<0.05	<0.05	<0.05
100-7	1 - 2	<0.05	<0.09	1.9	1.9
	2 - 4	<0.1	<0.4	12	12
	4 - 6	<0.1	<0.4	12	12
100-8	0 - 2	<0.05	0.70	1.5	2.2
	2 - 4	<1	120	<4	120
	4 - 6	<0.05	0.22	<0.05	0.22
100-9	1.5-2.5	<0.05	0.42	0.44	0.86
	2.5-4.5	<0.05	0.09	0.09	0.18
	4.5-6.5	<0.05	<0.05	<0.05	<0.05

Table 2. (continued).

Soil Boring No.	Depth (feet below land surface)	Aroclor 1016, 1232 1242 and/or 1248[b]	Aroclor 1254	Aroclor 1260	Total Aroclors
100-10	1 - 2	<0.2	<0.9	12	12
	2 - 4	<0.6	<2	19	19
	4 - 6	<0.5	<2	16	16
100-11	1.5-2.5	<0.05	0.17	0.57	0.74
	2.5-4.5	<0.05	0.16	1.1	1.3
	4.5-6.5	<0.05	0.07	1.4	1.5
100-12	1 - 2	<0.05	0.71	1.4	2.1
	2 - 4	<0.05	1.5	2.0	3.5
	4 - 6	<0.05	0.30	0.27	0.57

a) Concentrations are in ug/gram (or parts per million).
b) Aroclor pattern was identified and/or calculated as Aroclor 1242.

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 100 YARD SAMPLING (RR TIES + RAILS)	101-76-07	HE	6/29/88	

Request for Sampling

Date: 6-28-88

Initiator: Grant Bowman

BLDG Location: BLDG 100 Yard (East End)

Contact Person Paul Haule Ext 494-2176

Item Description	Proposed Destination
	Unknown
1) R.R Ties	
2) R.R. Rails	

Notes: Three tracks of R.R ties were sampled on a full core basis after they were removed and placed in piles. The fourth track of R.R ties were sampled in place. Wipe samples were taken off the rails in the same way as the ties (see map)

B/B use

BLASLAND & BOUCK ENGINEERS, P.C.

JBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 100 YARD SAMPLING (RR TIES & RAILS)	101-76-07	ME	6/29/FF	

PRELIMINARY

e following is a summary of the sample results for the sampling conducted t BLDG 100 Yard, the East end. A drawing showing the sample location is "ached (see Figure). An Analytical Report provided by OBG Laboratories 's also been included

:B Sampling Results

LAB ID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
00-YD-C20	<5.	RR TIE	1	6"	WOOD CORE DISCRETE
-YD-C21	<5.	RR TIE	2	6"	WOOD CORE DISCRETE
-YD-C22	<5.	RR TIE	3	6"	WOOD CORE DISCRETE
-YD-C23	<5.	RR TIE	4	6"	WOOD CORE DISCRETE
0-YD-C24	<5.	RR TIE	5	6"	WOOD CORE DISCRETE
0-YD-C25	<5.	RR TIE	6	6"	WOOD CORE DISCRETE

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 100 YARD SAMPLING (RR TIES AND RAILS)	101-76-07			

PRELIMINARY

ABID	Total PCB (ppm)	Sample Material	Sample Location	Sample Depth	Sample Type
00-YD-C26	< 5.	RR TIE	7	6"	WOOD CORE DISCRETE
00-YD-C27	< 5.	RR TIE	8	6"	WOOD CORE DISCRETE
00-YD-C28	< 5.	RR TIE	9	6"	WOOD CORE DISCRETE
00-YD-C29	< 5.	RR TIE	10	6"	WOOD CORE DISCRETE
00-YD-C30	< 5.	RR TIE	11	6"	WOOD CORE DISCRETE
00-YD-C31	< 5.	RR TIE	12	6"	WOOD CORE DISCRETE

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 100 YARD SAMPLING (R.R TIES & RAILS)	101-76-07	NE	7-5-88	

PRELIMINARY

e following is a summary of the sample results for the sampling conducted t BLDG. 100 Yard, the East end. A drawing showing the sample location is attache ee Figure 3. An Analytical Report provided by O&G Laboratories has also been cluded.

-B Sampling Results

AB ID	Total PCB ng/100 cm²	Sample Material	Sample Location	Sample Type
a-YD-C32	< 1.	R.R Rails	13	Wipe
-YD-C33	< 1.	R.R. Rails	14	Wipe
-YD-C34	< 1.	R.R. Rails	15	Wipe
-YD-C35	< 1.	R.R. Rails	16	Wipe
0-YD-C36	< 1.	R.R. Rails	17	Wipe
10-YD-C37	< 1.	R.R. Rails	18	Wipe

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 100 YARD SAMPLING (R.R. TIES & RAILS)	101-76-07	ME	7-5-88	

PRELIMINARY

SB ID	Total PCB ug/100 cm2	Sample Material	Sample Location	Sample Type
10-YD-C38	< 1.	R.R. Rails	19	Wipe
10-YD-C39	< 1.	R.R. Rails	20	Wipe
10-YD-C40	< 1.	R.R. Rails	21	Wipe
10-YD-C41	1.1	R.R. Rails	22	Wipe
10-YD-C42	< 1.	R.R. Rails	23	Wipe
10-YD-C43	< 1.	R.R. Rails	24	Wipe

OBG LABORATORIES, INC.

722

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-76-07

DATE COLLECTED See Below DATE REC'D. 6/29/88 DATE ANALYZED 6/30/88 → 7/1/88

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE µg/wipe	PCTS	Total PCB µg/wipe	COMMENTS	QC RESULTS
100-YD-C32	6/30/88	6/27/88			< 1.	wipes	A
C33					< 1.		
C34					< 1.		
C35					< 1.		
C36			< 10		< 1.		
C37					< 1.		
C38			< 10		< 1.		
C39			< 10		< 1.		
C40					< 1.		
C41			< 10		1.1		
C42					< 1.		
C43					< 1.		
A) Blank Spike 1	6/30/88				4.93 µg / 5.5 µg	= 89%	Recovery
Lab Blank 1	6/30/88				< 1.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

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

Date: _____

OBG LABORATORIES, INC.

715

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-76-07

DATE COLLECTED See Below DATE REC'D. 6/29/88 DATE ANALYZED 6/29/88

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/kg wet wt	PCTS %	Total PCB mg/kg dry wt	COMMENTS	QC RESULTS
100-YD-C20	6/29/88	6/27/88	< 5.	89	< 5.	wood	A
C21			< 5.	85	< 5.		
C22			< 5.	90	< 5.		
C23			< 5.	85	< 5.		
C24			< 5.	71	< 5.		
C25			< 5.	92	< 5.		
C26			< 5.	89	< 5.		
C27			< 5.	90	< 5.		
A) Duplicate of 100-YD-C24			< 5.	71	< 5.	vs < 5.	% RPD = ?
Blank Spike 1 6/29/88 using EPA Source					49.7 → 60 ugs = 83%		Recovery
Lab Blank 2 6/29/88					< 5.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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

OBG LABORATORIES, INC.

716

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101 - 76 - 07

DATE COLLECTED See Below DATE REC'D. 6/29/88 DATE ANALYZED 6/29/88

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt	PCTS %	Total PCB mg/Kg dry wt	COMMENTS	QC RESULTS
100-YD-C28	6/29/88	6/27/88	< 5.	92	< 5.	wood	A
C29	↓	↓	< 5.	70	< 5.	↓	↓
C30			< 5.	73	< 5.		
C31			< 5.	85	< 5.		
A) Duplicate of 100-YD-C31			< 5.	85	< 5.	vs 4.5	% RPD = ?
Lab Blank 3 - 6/29/88					< 5.		

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

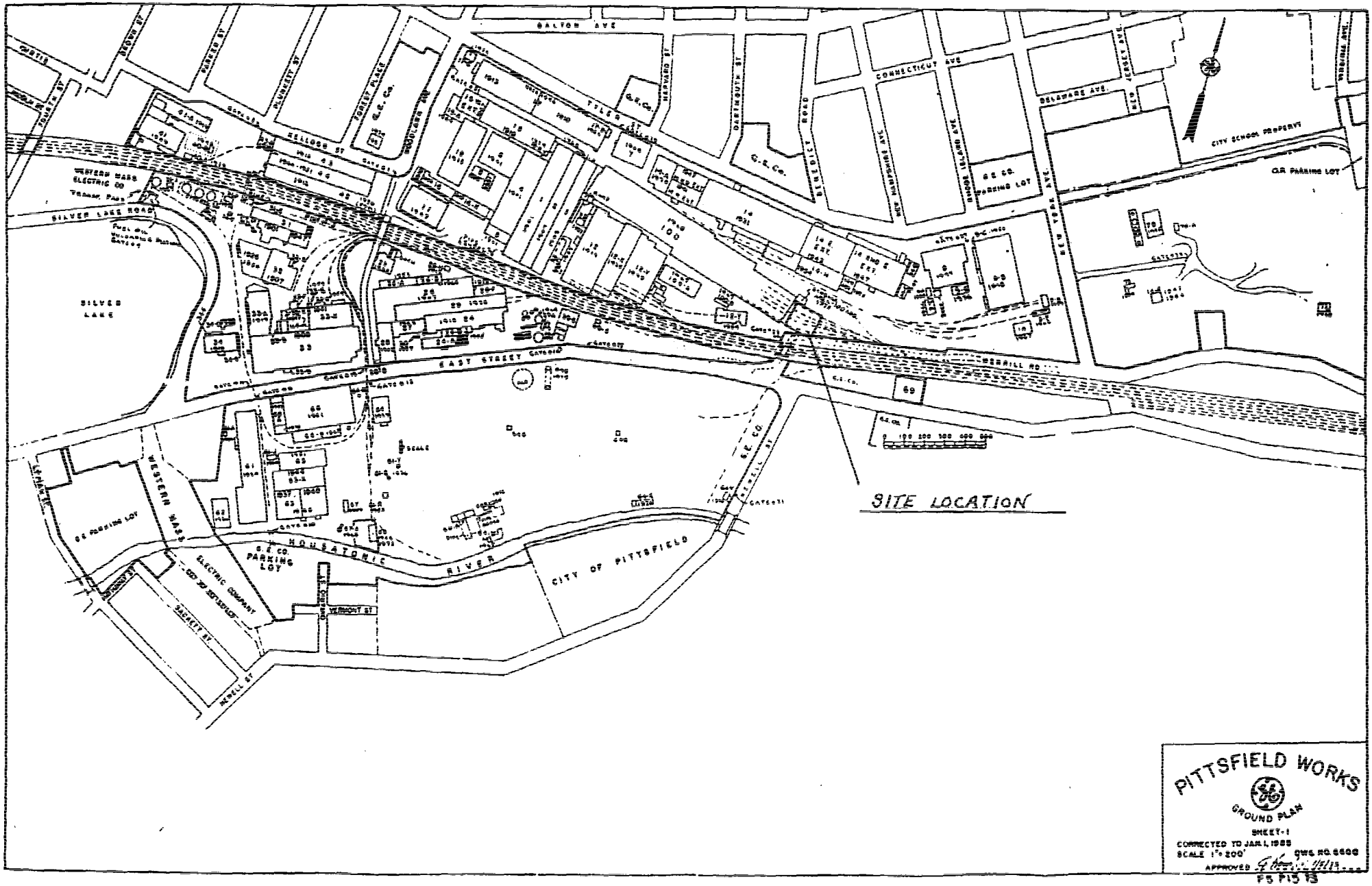
Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494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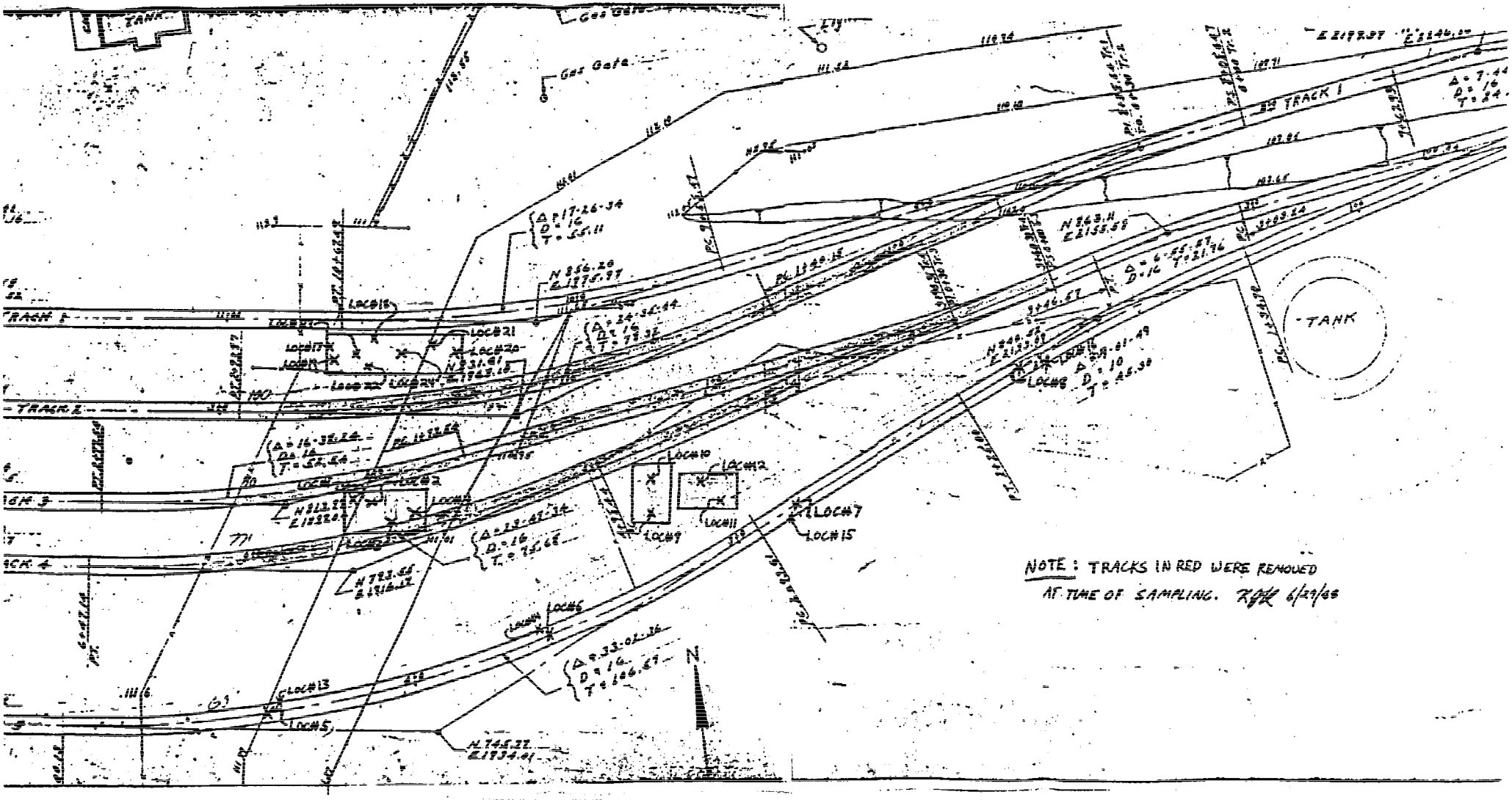
KELLOGG ST
TYLER ST
CONNECTICUT AVE
DELAWARE AVE
CITY SCHOOL PROPERTY
G.E. PARKING LOT
WESTERN MASS ELECTRIC CO
SILVER LAKE ROAD
SILVER LAKE
EAST STREET
MERRILL RD
G.E. CO.
SITE LOCATION
WESTERN MASS
G.E. PARKING LOT
HOUSATONIC RIVER
CITY OF PITTSFIELD
ELECTRIC COMPANY
VERMONT ST
NEWELL ST
PITTSFIELD WORKS
GROUND PLAN
SHEET-1
CORRECTED TO JAN 1, 1955
SCALE 1" = 200'
DWG NO. 6600
APPROVED


TANK
Gas Gate
TRACK 1
TRACK 2
TRACK 3
TRACK 4
TANK
LOC#1
LOC#2
LOC#3
LOC#4
LOC#5
LOC#6
LOC#7
LOC#8
LOC#9
LOC#10
LOC#11
LOC#12
LOC#13
LOC#14
LOC#15
LOC#16
LOC#17
LOC#18
LOC#19
LOC#20
LOC#21
NOTE : TRACKS IN RED WERE REMOVED
AT TIME OF SAMPLING. RJK 6/29/88

APPENDIX L, SECTION 5

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ NO.	BY	DATE	SHEET
STORM SEWER SAMPLING	101-75-01	HE	8/17/89	

Request for Sampling

Date: 8-4-89

Initiator: Paul Houle

BLDG Location:

Contact Person Grant Bowman Ext 2700

Item Description	Proposed Destination
1) Sediment	
2)	

Notes:

Discrete grab-samples were collected from the storm sewers at locations identified by G.E.

B/B use

DELIVERED 8-24-89
TO GRANT BOWMAN
(GE)

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Robert W. Rhoades
Re: Storm Sewer Sampling

Date: 8/15/89
File No: 101-75-01
cc: Grant Bowman (GE)

The following is a summary of the sample results for the P.C.B. sampling conducted on 8/4/89 through 8/8/89 in the storm sewers at locations identified by G.E. throughout the plant . 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

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE
SS-C1	5.5	C1	SEDIMENT	DISCRETE-GRAB
SS-C2	<5	C2	SEDIMENT	DISCRETE-GRAB
SS-C3	5.6	C3	SEDIMENT	DISCRETE-GRAB
SS-C4	8.4	C4	SEDIMENT	DISCRETE-GRAB
S-C5	1000	C5	SEDIMENT	DISCRETE-GRAB
SS-C6	12	C6	SEDIMENT	DISCRETE-GRAB
SS-C7	89	C7	SEDIMENT	DISCRETE-GRAB
SS-C8	12	C8	SEDIMENT	DISCRETE-GRAB
SS-C9	44	C9	SEDIMENT	DISCRETE-GRAB
SS-C10	6.4	C10	SEDIMENT	DISCRETE-GRAB
SS-C11	12	C11	SEDIMENT	DISCRETE-GRAB

RWR/bee

OBG LABORATORIES, INC.

1169

PRELIMINARY

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-01

DATE COLLECTED See Below DATE REC'D. 8/4/89 DATE ANALYZED 8/7/89 → 8/8/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt	PCTS %	Total PCB mg/Kg dry wt	COMMENTS	QC RESULTS
SS-C2	8/7/89	8/4/89	< 3.	80.9	< 5.	Sediments	A
C3	↓	↓	4.4	79.	5.6	↓	↓
C4			6.6	78.2	8.4		
C5			54.2	54.2	1000		
A) Duplicate of SS-C3			4.3	79.	5.4 vs	5.6	% RPD = 3.6
Lab Blank 1	8/7/89		—	—	< 5.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

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

OBG LABORATORIES, INC.

1172

PRELIMINARY

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-01

DATE COLLECTED See Below DATE RECD. 8/8/89 DATE ANALYZED 8/9/89

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/Kg wet wt.	PCTS (%)	Total PCB mg/Kg dry wt.	COMMENTS	QC RESULTS
SS-C1	8/9/89	8/7/89	4.3	77.8	5.5	Sediments	A
C6			7.8	66.5	12		
C7			64	71.9	89		
C8			9.2	79.5	12		
C9			32	72	44		
C10		8/8/89	5.7	89.2	6.4		
C11			8.8	74.2	12		
A) Matrix Spike of SS-C9			—	69.3	3.21 / 3.33 =	99%	Recovery
Lab Blank 1	8/9/89		—	—	<5.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

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

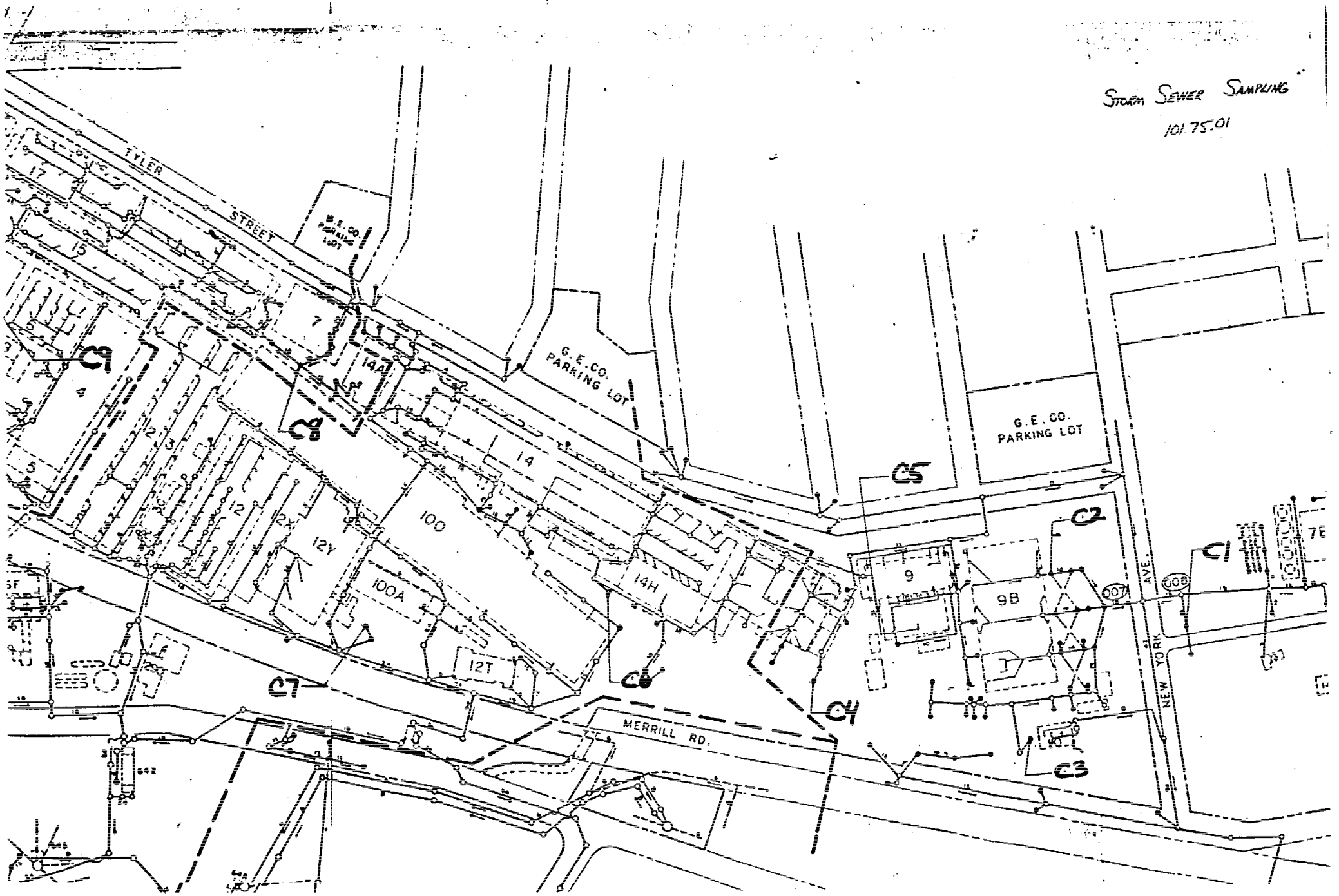
Date: _____

BLASLAND & BOUCK ENGINEERS, P.C.

JECT	PROJ. NO.	BY	DATE	SHEET
STORM SEWER SAMPLING	101.75.01	RJP	8-9-89	1-1

Could not find original locations 1, 4, 10 & 11 picked by G. Bowman. Picked new manholes to be sampled for loc's 1 & 4 as stated in G. Bowmans request for sampling note to Paul Hauke.

Bob Persivy showed me the two manholes at loc's 10 & 11. The manholes were placed on the map incorrectly. I plotted them on the map correctly & sampled them.


STORM SEWER SAMPLING
101.75-01
TYLER STREET
G.E.CO. PARKING LOT
G.E.CO. PARKING LOT
G.E.CO. PARKING LOT
MERRILL RD.
NEW YORK AVE.
C1
C2
C3
C4
C5
C6
C7
C8
C9
17
15
7
14A
4
2
3
5
12
12X
12Y
100
100A
12T
14
14H
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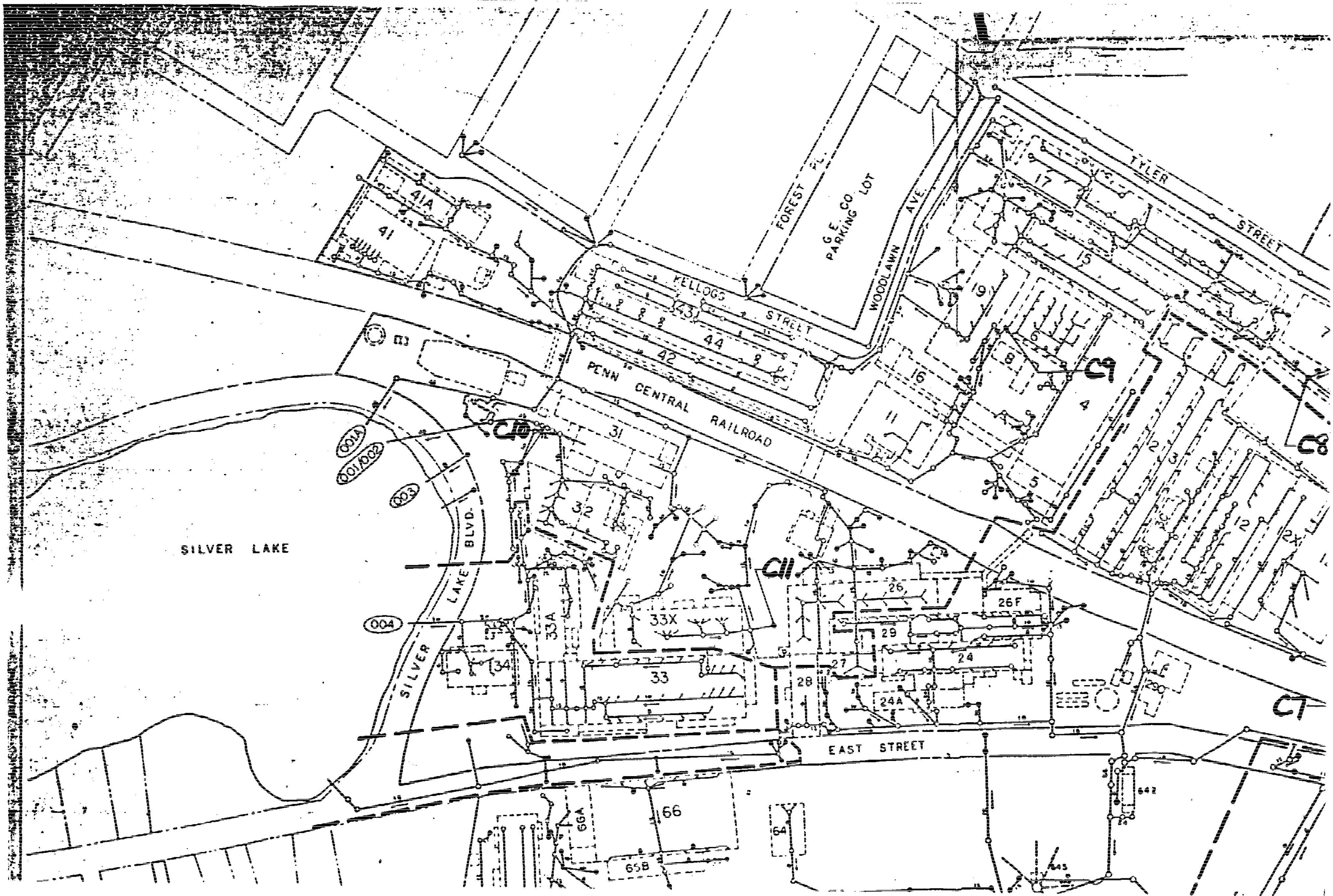
9B
007
008



SILVER LAKE
SILVER LAKE BLVD.
PENN CENTRAL RAILROAD
KELLOGG STREET
FOREST PL.
G.E. CO PARKING LOT
WOODLAWN AVE.
TYLER STREET
EAST STREET
C7
C8
C9
C10
C11
001A
001/002
003
004
41A
41
43
44
42
31
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33A
33X
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34
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26F
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24A
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66A
65B
64

APPENDIX L, SECTION 6

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

TO: FILES

DATE: 4-22-92

FROM: BRUCE EULIAN

FILE NO: 101.75.16

RE: Southside Pumo Station Excavation
Sampling (East St. Area I)

CC: Grant Bowman (GE)
Jackie Desantis (GE)

INITIATOR: Jackie Desantis (GE)

DATE: 4-16-92

LOCATION: Southside Pump Station

JTACT PERSON: Jackie Desantis (GE)

EXT: 3306

ITEM DESCRIPTION:

1.) Soil

2.) Concrete

PURPOSE: To collect samples for GE to determine the proper disposal method for the soil and concrete that was excavated for the proposed pipeline at the Southside Pump Station.

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

1.) Soil from the excavation for a proposed pipline at the Southside Pump Station is to be sampled for PCB's Method 8080 and the soil samples are to be screened for Volatile Organic Compunds with a PID. If the PID readings on the soil are greater than or equal to 10 PPM the soil is to be analyzed for VOC's Method 8240 and Semi-Volatiles Method 8270.

, Concrete from the proposed pipeline at the Southside Pump Station is to be sampled for PCB's Method 8080 on a discrete full core basis.

DELIVERED TO
GRANT BOWMAN (GE)
6-24-92

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

To: Files
From: Bruce Eulian
Re: Southside Pump Station Excavation
Sampling (East St. Area I)

Date: 4-22-92
File No: 101.75.16
cc: Grant Bowman (GE)
Jackie Desantis (GE)

The following is a summary of the sampling program conducted on 4-20-92, 4-21-92, 4-23-92 and 5-5-92 on the gravel, soil and concrete from the Southside Pump Station Excavation. At the request of Jackie Desantis (GE) 10 discrete grab samples of soil were collected and analyzed for PCB's Method 8080 along with 1 field composite for TCLP analysis (no Herbicides or Pesticides). The 10 discrete grab soil samples were screened for Volatile Organic Compounds with a calibrated PID. 4 of the samples were found to be >10 ppm and were analyzed for VOC's Method 8240 and Semi-Volatiles Method 8270, 2 were from the top level of gravel and were found to be <10 ppm and not analyzed per Grant Bowman (GE), the remaining 4 samples were <10 ppm and were only analyzed for PCB's Method 8080. Also, 4 discrete core samples of concrete were collected and analyzed for PCB's Method 8080.

A summary table of the sampling program has been provided (Table 1), as well as drawings showing the site location (Figure 1) and sample locations (Figures 2 & 3). HNU calibration and head space screening sheets have been provided (Attachment 1). Analytical reports for the PCB, VOC, and Semi-Volatile samples have also been provided by OBG Laboratories tachment 2) along with the TCLP results from Alpha Analytical (Attachment 3).

jjh

SOUTH... PUMP ... EXCAVATION
SAMPLING (EA ... AREA I)

TABLE 1

LAB ID	SAMPLE DATE	TOTAL PCB's METHOD 8080 PPM	VOC's METHOD 8240	SEMI-VOLATILES METHOD 8270	TCLP (NO HERBICIDES OR PESTICIDES)	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
SPS-ES-C1	04-20-92	SEE NOTE	SEE NOTE	SEE NOTE	SEE NOTE	1	GRAVEL	DISCRETE-GRAB	0-2'	2
SPS-ES-C2	04-20-92	1.4	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NONE	2	SOIL	DISCRETE-GRAB	0-3'	2
SPS-ES-C3	04-20-92	<0.6	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NONE	3	SOIL	DISCRETE-GRAB	0-3'	2
SPS-ES-C4	04-21-92	SEE NOTE	SEE NOTE	SEE NOTE	SEE NOTE	4	GRAVEL	DISCRETE-GRAB	0-2'	2
SPS-ES-C5	04-21-92	1.2	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NONE	5	SOIL	DISCRETE-GRAB	0-1'	3
SPS-ES-C6	04-21-92	<0.6	NONE	NONE	NONE	6	SOIL	DISCRETE-GRAB	1-2'	3
SPS-ES-C7	04-21-92	0.8	NONE	NONE	NONE	7	SOIL	DISCRETE-GRAB	2-3'	3
SPS-ES-C8	04-21-92	<0.6	SEE OBG LAB REPORT	SEE OBG LAB REPORT	NONE	8	SOIL	DISCRETE-GRAB	0-1'	3
SPS-ES-C9	04-21-92	<0.6	NONE	NONE	NONE	9	SOIL	DISCRETE-GRAB	1-2'	3
SPS-ES-C10	04-21-92	<0.6	NONE	NONE	NONE	10	SOIL	DISCRETE-GRAB	2-3'	3
SPS-ES-C11	04-23-92	NONE	NONE	NONE	SEE ALPHA LAB REPORT	5-13	SOIL	FIELD-COMPOSITE	0-3'	3

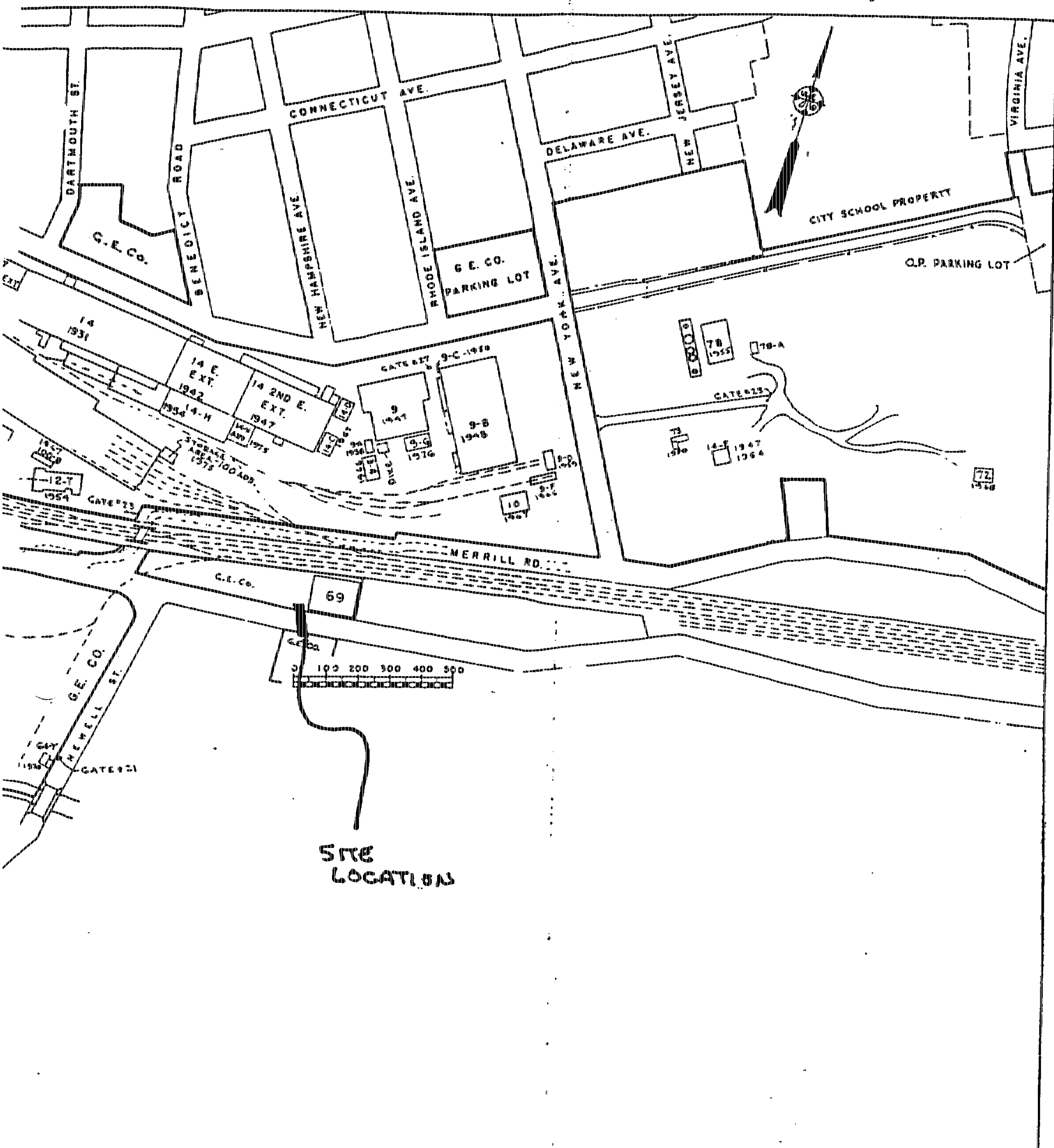
NOTE: PID WAS <10 PPM ON THE GRAVEL SO NO ANALYSIS WAS DONE PER GRANT BOWMAN (G

SOUTHWEST PUMP & [illegible] EXCAVATION
SAMPLING (EA[illegible]REA I)

TABLE 1 (Cont)

LAB ID	SAMPLE DATE	TOTAL PCB's METHOD 8080 PPM	VOC's METHOD 8240	SEMI-VOLATILES METHOD 8270	TCLP (NO HERBICIDES OR PESTICIDES)	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
SPS-ES-C12	05-05-92	<1.0	NONE	NONE	NONE	14	CONCRETE	DISCRETE-CORE	0-4"	3
SPS-ES-C13	05-05-92	<1.0	NONE	NONE	NONE	15	CONCRETE	DISCRETE-CORE	0-4"	3
SPS-ES-C14	05-05-92	<1.0	NONE	NONE	NONE	16	CONCRETE	DISCRETE-CORE	0-4"	3
SPS-ES-C15	05-05-92	<1.0	NONE	NONE	NONE	17	CONCRETE	DISCRETE-CORE	0-4"	3

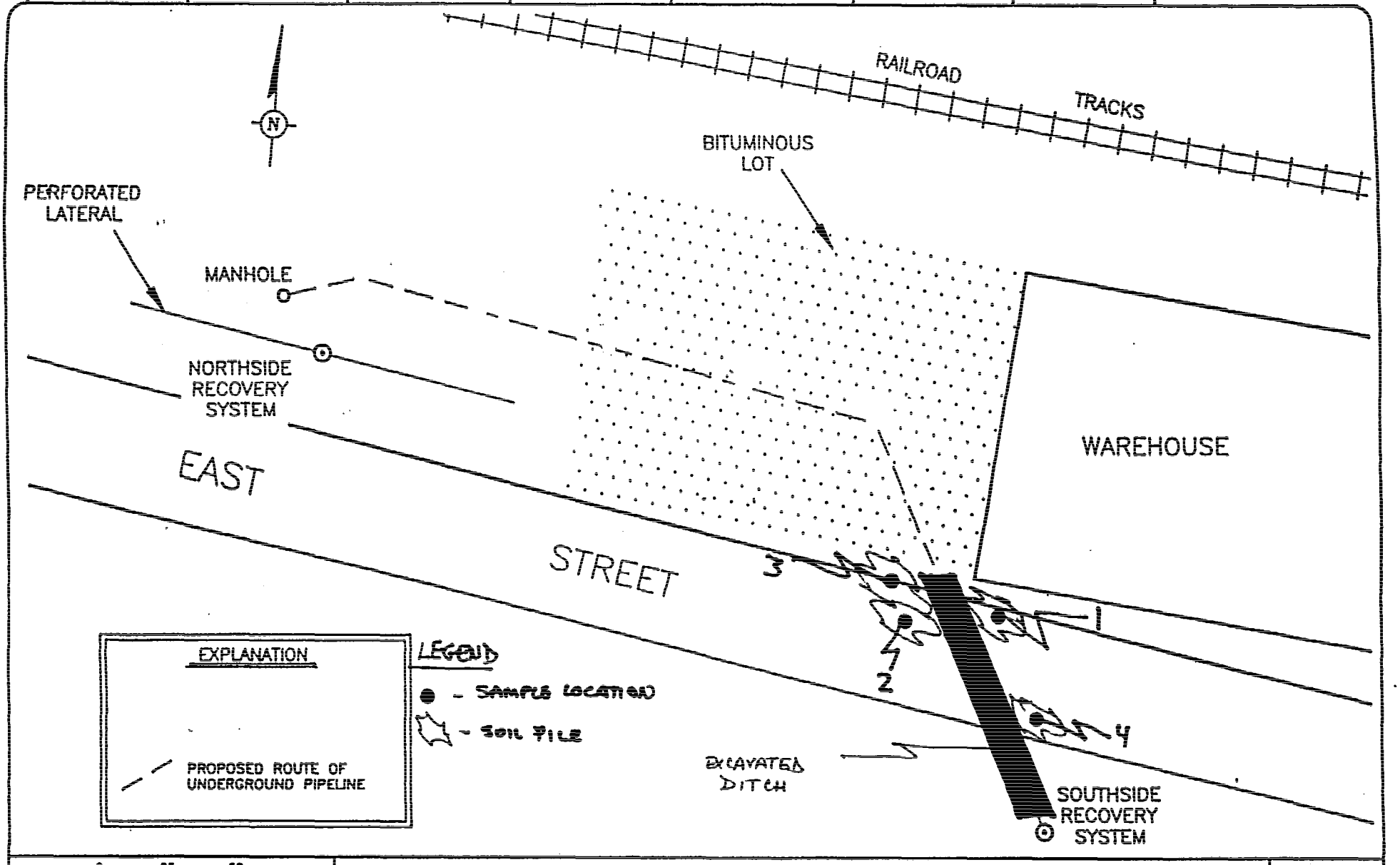
FIGURE 1


DARTMOUTH ST.
BENEDICT ROAD
NEW HAMPSHIRE AVE.
RHODE ISLAND AVE.
CONNECTICUT AVE.
DELAWARE AVE.
JERSEY AVE.
NEW YORK AVE.
VIRGINIA AVE.
CITY SCHOOL PROPERTY
O.P. PARKING LOT
G.E. Co.
G E. CO. PARKING LOT
14 1931
14 E. EXT. 1942
14 2ND E. EXT. 1947
9 1947
9-B 1948
9-C 1950
9-G 1976
10
78 1955
78-A
72
GATE #23
MERRILL RD.
69
G.E. CO.
NEWELL ST.
GATE #21
0 100 200 300 400 500
SITE LOCATION
PITTSFIELD WORKS
GROUND PLAN
SHEET-1
CORRECTED TO JAN. 1, 1985
SCALE 1" = 200'
DWG. NO. 6600
APPROVED

F5 P15 B

FIGURE 2

DATE: MARCH 1992 | FILE NO.:



SOUTHSIDE PUMP STATION EXCAVATION SAMPLING (EAST STREET AREA 1)

101-75-16

GE COMPANY

PITTSFIELD MASSACHUSETTS

BLASLAND, BOUCK & LEE

JECT	PROJ. NO.	BY	DATE	SHEET
Southside Pump Station Excavation Samples (East St Area I)	101.75.16	JJN	4/21/92	1 of 1

FIGURE 3

N

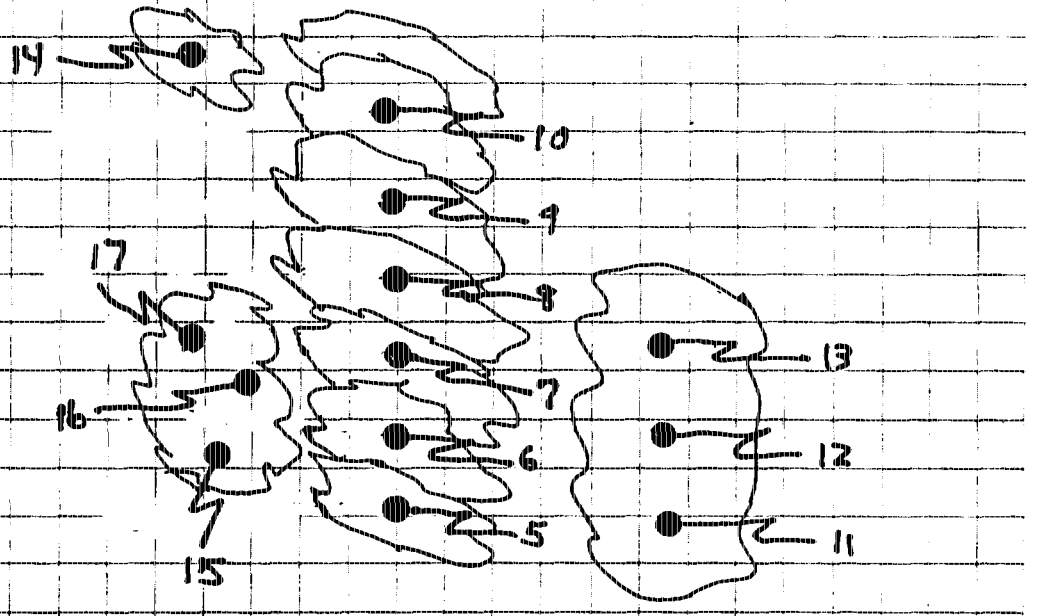
BLDG 61-R

LEGEND

● — SAMPLE LOCATION

— SOIL PILE

BLDG 68



ATTACHMENT 1

HNU CALIBRATION

Southside Pump Station Excavation
Sampling (East St Area I)

DATE: 4/20/92
OPERATOR: Jim Hassett

HNU SERIAL NO: A70129
eV OF PROBE: 10.2

CALIBRATION GAS: 9.80 span setting @ 55.0 ppm

INITIAL READING: 9.50 span setting @ 50.0 ppm

ADJUSTED SETTING: 8.10 span setting @ 55.0 ppm

NOTES:

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

SOUTHSIDE PUMP STATION EXCAVATION
SAMPLING (EAST ST AREA I)

DATE: 4/20/92
OPERATOR: Jim HASSETT
CALIBRATION DATE: 4/20/92
CALIBRATED BY: Jim HASSETT

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
1	5.1	4.8	5.0
2	18.4	26.0	22.2
3	62.0	60.1	61.0

HNU CALIBRATION

SOUTHSIDE PUMP STATION EXCAVATION
SAMPLING (EAST ST AREA I)

DATE: 4/24/92
OPERATOR: Jim 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 @ 44.0 ppm

ADJUSTED SETTING: 7.72 span setting @ 55.0 ppm

NOTES:

BLASLAND & BOUCK ENGINEERS, P.C.

HEAD SPACE SCREENING

SOUTHSIDE PUMP STATION EXCAVATION
SAMPLING (EAST ST AREA I)

DATE: 4/21/92
OPERATOR: JIM HASSETT
CALIBRATION DATE: 4/21/92
CALIBRATED BY: JIM HASSETT

SAMPLE LOCATION	HNU READING SAMPLE A (ppm)	HNU READING SAMPLE B (ppm)	HNU READING AVERAGE OF SAMPLE A&B
4	1.0	0.8	0.9
5	11.8	15.2	13.5
6	5.4	4.2	4.8
7	8.4	9.2	8.4
8	18.0	20.0	19.0
9	1.8	2.4	2.1
10	4.4	5.8	5.1

ATTACHMENT 2

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION Southside Pump Station Excavation B&B Job NO. 101.75.16

Pittsfield, MA MATRIX: Solid

Date Analyzed 4-22-92 DATE COLLECTED 4-20-92 DATE RECEIVED 4-21-92

	Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS
SPS-ES-C2	P6831	1.4	1260	90.
SPS-ES-C3	P6832	<0.6	-	85.

Comments:

Certification No.: NY034

Units: mg/kg dry weight(ppm)

Authorized:

Date: June 12, 1992

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 Southside Pump Station Excavation Sampling(East St. Area 1) B & B # 101.75.16

Pittsfield, MA MATRIX: Soil

Date Analyzed 4-28-92 DATE COLLECTED 4-21-92 DATE RECEIVED 4-22-92

	Sample #	PCB	Aroclor	PERCENT TOTAL SOLIDS
SPS-ES-C5	P6924	1.2	1260*	86.
SPS-ES-C6	P6925	<0.6	-	85.
SPS-ES-C7	P6926	0.8	1260*	87.
SPS-ES-C8	P6927	<0.6	-	86.
SPS-ES-C9	P6928	<0.6	-	84.
SPS-ES-C10	P6929	<0.6	-	89.

Comments: *Altered Aroclor

Certification No.: NY034

Units: mg/kg dry weight (ppm)

Authorized:

Date: June 2, 1992

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.

Volatile Organics
Method 8240

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

DESCRIPTION Southside Pump Station Excavation B&B Job No. 101.75.16

Pittsfield, MA MATRIX: Soil

DATE COLLECTED 4-20-92 DATE RECEIVED 4-21-92 DATE ANALYZED 4-23-92

DESCRIPTION:	SPS-ES-C2	SPS-ES-C3
SAMPLE NO.:	P6831	P6832
Chloromethane	<56.	<59.
Bromomethane		
Vinyl chloride		
Chloroethane		
Methylene chloride	<28.	<29.
Acetone	82.	120.
Carbon disulfide	<28.	<29.
1,1-Dichloroethene		
1,1-Dichloroethane		
1,2-Dichloroethene (total)		
Chloroform		
1,2-Dichloroethane		
2-Butanone	<56.	<59.
1,1,1-Trichloroethane	<28.	<29.
Carbon tetrachloride	<28.	<29.
Vinyl acetate	<56.	<59.
Bromodichloromethane	<28.	<29.
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
Trichloroethene		
Dibromochloromethane		
1,1,2-Trichloroethane		
Benzene		

Authorized: [signature]

Date: June 12, 1992

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.

Volatile Organics
Method 8240

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

DESCRIPTION Southside Pump Station Excavation B&B Job No. 101.75.16

Pittsfield, MA MATRIX: Soil

DATE COLLECTED 4-20-92 DATE RECEIVED 4-21-92 DATE ANALYZED 4-23-92

DESCRIPTION:	SPS-ES-C2	SPS-ES-C3
SAMPLE NO.:	P6831	P6832
trans-1,3-Dichloropropene	<28.	<29.
Bromoform	<28.	<29.
4-Methyl-2-pentanone	<56.	<59.
2-Hexanone	<56.	<59.
Tetrachloroethene	<28.	<29.
1,1,2,2-Tetrachloroethane		
Toluene		
Chlorobenzene		
Ethylbenzene		36.
Styrene		<29.
Xylene (total)	200.	600.

Comments:

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

Certification No.: NY034

Units: µg/kg dry weight (ppb)

Authorized: _____

Date: June 12, 1992

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.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Pump Station Excavation B&B Job NO. 101.75.16

Pittsfield, MA SPS-ES-C2 MATRIX: Solid

SAMPLE NO. P6831 DATE COLLECTED 4-20-92 DATE RECEIVED 4-21-92

DATE EXTRACTED 4-22-92 DATE ANALYZED 5-8-92

Phenol	<3700.
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	<18,000.
Bis (2-chloroethoxy) methane	<3700.
2,4-Dichlorophenol	
1,2,4-Trichlorobenzene	
Naphthalene	
4-Chloroaniline	
Hexachlorobutadiene	
4-Chloro-3-methylphenol	<3700.
2-Methylnaphthalene	16,000.
Hexachlorocyclopentadiene	<3700.
2,4,6-Trichlorophenol	<3700.
2,4,5-Trichlorophenol	<18,000.
2-Chloronaphthalene	<3700.
2-Nitroaniline	<18,000.
Dimethylphthalate	<3700.
Acenaphthylene	
2,6-Dinitrotoluene	
3-Nitroaniline	<18,000.
Acenaphthene	<3700.
2,4-Dinitrophenol	<18,000.
4-Nitrophenol	<18,000.
Dibenzofuran	<3700.
2,4-Dinitrotoluene	
Diethylphthalate	
4-Chlorophenyl-phenylether	
Fluorene	4400.
4-Nitroaniline	<18,000.
4,6-Dinitro-2-methylphenol	<18,000.
N-Nitrosodiphenylamine	<3700.
4-Bromophenyl-phenylether	<3700.

Authorized

Date: June 12, 1992

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.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Pump Station Excavation B&B Job NO. 101.75.16

Pittsfield, MA SPS-ES-C2 MATRIX: Solid

SAMPLE NO. P6831 DATE COLLECTED 4-20-92 DATE RECEIVED 4-21-92

DATE EXTRACTED 4-22-92 DATE ANALYZED 5-8-92

Hexachlorobenzene	<3700.	Benzo (a) anthracene	<3700.
Pentachlorophenol	<18,000.	Chrysene	<3700.
Phenanthrene	<3700.(3300.)	Bis (2-ethylhexyl) phthalate	<3700.(1200.)
Anthracene	<3700.	Di-n-octylphthalate	<3700.
Di-n-butylphthalate	<3700.	Benzo (b) fluoranthene	<3700.(990.)
Fluoranthene	<3700.(1000.)	Benzo (k) fluoranthene	<3700.(440.)
Pyrene	<3700.	Benzo (a) pyrene	<3700.(530.)
Butylbenzylphthalate	<3700.	Indeno (1,2,3-cd) pyrene	<3700.(480.)
3,3'-Dichlorobenzidine	<7300.	Dibenz (a,h) anthracene	<3700.
		Benzo (g,h,i) perylene	<3700.(470.)

Comments: Values in parentheses are estimated values; detected, but below the quantitation limit.

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

Certification No.: NY034

Units: µg/kg dry weight(ppb)

Authorized:

Date: June 12, 1992

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.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Pump Station Excavation B&B Job NO. 101.75.16

Pittsfield, MA SPS-ES-C3 MATRIX: Solid

SAMPLE NO. P6832 DATE COLLECTED 4-20-92 DATE RECEIVED 4-21-92

DATE EXTRACTED 4-22-92 DATE ANALYZED 5-8-92

Phenol	<3900.	4-Chloro-3-methylphenol	<3900.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<19,000.
Benzyl alcohol		2-Chloronaphthalene	<3900.
1,2-Dichlorobenzene		2-Nitroaniline	<19,000.
2-Methylphenol		Dimethylphthalate	<3900.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<19,000.
Hexachloroethane		Acenaphthene	<3900.
Nitrobenzene		2,4-Dinitrophenol	<19,000.
Isophorone		4-Nitrophenol	<19,000.
2-Nitrophenol		Dibenzofuran	<3900.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<19,000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<3900.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<19,000.
Naphthalene		4,6-Dinitro-2-methylphenol	<19,000.
4-Chloroaniline		N-Nitrosodiphenylamine	<3900.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<3900.

Authorized: CL C

Date: June 12, 1992

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.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Pump Station Excavation B&B Job NO. 101.75.16

Pittsfield, MA SPS-ES-C3 MATRIX: Solid

SAMPLE NO. P6832 DATE COLLECTED 4-20-92 DATE RECEIVED 4-21-92

DATE EXTRACTED 4-22-92 DATE ANALYZED 5-8-92

Hexachlorobenzene	<3900.
Pentachlorophenol	<19,000.
Phenanthrene	<3900.
Anthracene	
Di-n-butylphthalate	
Fluoranthene	<3900.(940.)
Pyrene	
Butylbenzylphthalate	
3,3'-Dichlorobenzidine	<7800.
Benzo (a) anthracene	<3900.
Chrysene	
Bis (2-ethylhexyl) phthalate	
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.

Values in parentheses are estimated values; detected, but below the quantiation limit.

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

Certification No.: NY034

Units: µg/kg dry weight(ppb)

Authorized: _____

Date: June 12, 1992

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.

Volatile Organics
Method 8240

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

DESCRIPTION Southside Pump Station Excavation Sampling(East St. Area 1) B & B # 101.75.16

Pittsfield, MA MATRIX: Soil

DATE COLLECTED 4-21-92 DATE RECEIVED 4-22-92 DATE ANALYZED See Page 2

DESCRIPTION:	SPS-ES-C5	SPS-ES-C8
SAMPLE NO.:	P6924*	P6927*
Chloromethane	<58.	<58.
Bromomethane		
Vinyl chloride		
Chloroethane		
Methylene chloride	<29.	31.B
Acetone	73.	<58.
Carbon disulfide	<29.	<29.
1,1-Dichloroethene		
1,1-Dichloroethane		
1,2-Dichloroethene (total)		
Chloroform		
1,2-Dichloroethane		
2-Butanone	<58.	<58.
1,1,1-Trichloroethane	<29.	<29.
Carbon tetrachloride	<29.	<29.
Vinyl acetate	<58.	<58.
Bromodichloromethane	<29.	<29.
1,2-Dichloropropane		
cis-1,3-Dichloropropene		
Trichloroethene		
Dibromochloromethane		
1,1,2-Trichloroethane		
Benzene		

Authorized: _____

Date: June 3, 1992

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.

Volatile Organics
Method 8240

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

DESCRIPTION Southside Pump Station Excavation Sampling(East St. Area 1) B & B # 101.75.16
Pittsfield, MA MATRIX: Soil

DATE COLLECTED 4-21-92 DATE RECEIVED 4-22-92 DATE ANALYZED See Below

DESCRIPTION:	SPS-ES-C5	SPS-ES-C8
SAMPLE NO.:	P6924*	P6927*
trans-1,3-Dichloropropene	<29.	<29.
Bromoform	<29.	<29.
4-Methyl-2-pentanone	<58.	<58.
2-Hexanone	<58.	<58.
Tetrachloroethene	<29.	<29.
1,1,2,2-Tetrachloroethane	↓	↓
Toluene		
Chlorobenzene		
Ethylbenzene		
Styrene		
Xylene (total)		
Date Analyzed	5-4-92	5-5-92

Comments: *Elevated detection limits due to matrix interferences.

Values flagged with a "B" indicate the analyte was detected in the laboratory blank. The blank exhibited 2µg of methylene chloride.

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

Certification No.: NY034

Units: µg/kg dry weight (ppb)

Authorized:

Date: June 3, 1992

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.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Punp Station Excavation Sampling(East St. Area 1) B & B # 101.75.16

Pittsfield, MA - SPS-ES-C5 MATRIX: Soil

SAMPLE NO. P6924 DATE COLLECTED 4-21-92 DATE RECEIVED 4-22-92

DATE EXTRACTED 4-28-92 DATE ANALYZED 5-08-92

Phenol	<7700.	4-Chloro-3-methylphenol	<7700.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<38,000.
Benzyl alcohol		2-Chloronaphthalene	<7700.
1,2-Dichlorobenzene		2-Nitroaniline	<38,000.
2-Methylphenol		Dimethylphthalate	<7700.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<38,000.
Hexachloroethane		Acenaphthene	12,000.
Nitrobenzene		2,4-Dinitrophenol	<38,000.
Isophorone		4-Nitrophenol	<38,000.
2-Nitrophenol		Dibenzofuran	<7700.(4300.)
2,4-Dimethylphenol		2,4-Dinitrotoluene	<7700.
Benzoic acid	<38,000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<7700.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	12,000.
1,2,4-Trichlorobenzene		4-Nitroaniline	<38,000.
Naphthalene	<7700.(3600.)	4,6-Dinitro-2-methylphenol	<38,000.
4-Chloroaniline	<7700.	N-Nitrosodiphenylamine	<7700.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<7700.

Authorized: _____

Date: June 3, 1992

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

OBG LABORATORIES, INC.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Pump Station Excavation Sampling(East St. Area 1) B & B # 101.75.16

Pittsfield, MA - SPS-ES-C5 MATRIX: Soil

SAMPLE NO. P6924 DATE COLLECTED 4-21-92 DATE RECEIVED 4-22-92

DATE EXTRACTED 4-28-92 DATE ANALYZED 5-08-92

Hexachlorobenzene	<7700.	Benzo (a) anthracene	42,000.
Pentachlorophenol	<38,000.	Chrysene	37,000.
Phenanthrene	90,000.	Bis (2-ethylhexyl) phthalate	<7700.
Anthracene	26,000.	Di-n-octylphthalate	<7700.
Di-n-butylphthalate	<7700.	Benzo (b) fluoranthene	41,000.
Fluoranthene	75,000.	Benzo (k) fluoranthene	13,000.
Pyrene	85,000.	Benzo (a) pyrene	32,000.
Butylbenzylphthalate	<7700.	Indeno (1,2,3-cd) pyrene	15,000.
3,3'-Dichlorobenzidine	<15,000.	Dibenz (a,h) anthracene	<7700.(4100.)
		Benzo (g,h,i) perylene	15,000.

Comments: Values in parenthesis are estimated values, detected but below the quantitation limit.

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

Certification No.: NY034

Units: µg/kg dry weight (ppb)

Authorized: _____

Date: June 3, 1992

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.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Pump Station Excavation Sampling(East St. Area 1) B & B # 101.75.16

Pittsfield, MA - SPS-ES-C8 MATRIX: Soil

SAMPLE NO. P6927 DATE COLLECTED 4-21-92 DATE RECEIVED 4-22-92

DATE EXTRACTED 4-28-92 DATE ANALYZED 5-08-92

Phenol	<7700.	4-Chloro-3-methylphenol	<7700.
Bis (2-chloroethyl) ether		2-Methylnaphthalene	
2-Chlorophenol		Hexachlorocyclopentadiene	
1,3-Dichlorobenzene		2,4,6-Trichlorophenol	
1,4-Dichlorobenzene		2,4,5-Trichlorophenol	<38,000.
Benzyl alcohol		2-Chloronaphthalene	<7700.
1,2-Dichlorobenzene		2-Nitroaniline	<38,000.
2-Methylphenol		Dimethylphthalate	<7700.
Bis (2-chloroisopropyl) ether		Acenaphthylene	
4-Methylphenol		2,6-Dinitrotoluene	
N-Nitroso-di-n-propylamine		3-Nitroaniline	<38,000.
Hexachloroethane		Acenaphthene	12,000.
Nitrobenzene		2,4-Dinitrophenol	<38,000.
Isophorone		4-Nitrophenol	<38,000.
2-Nitrophenol		Dibenzofuran	<7700.
2,4-Dimethylphenol		2,4-Dinitrotoluene	
Benzoic acid	<38,000.	Diethylphthalate	
Bis (2-chloroethoxy) methane	<7700.	4-Chlorophenyl-phenylether	
2,4-Dichlorophenol		Fluorene	
1,2,4-Trichlorobenzene		4-Nitroaniline	<38,000.
Naphthalene		4,6-Dinitro-2-methylphenol	<38,000.
4-Chloroaniline		N-Nitrosodiphenylamine	<7700.
Hexachlorobutadiene		4-Bromophenyl-phenylether	<7700.

Authorized: _____

Date: June 3, 1992

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.

Semivolatile Organics
Method 8270

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

DESCRIPTION Southside Pump Station Excavation Sampling(East St. Area 1) B & B # 101.75.16

Pittsfield, MA - SPS-ES-C8 MATRIX: Soil

SAMPLE NO. P6927 DATE COLLECTED 4-21-92 DATE RECEIVED 4-22-92

DATE EXTRACTED 4-28-92 DATE ANALYZED 5-08-92

Hexachlorobenzene	<7700.	Benzo (a) anthracene	<7700.
Pentachlorophenol	<38,000.	Chrysene	<7700.(1800.)
Phenanthrene	<7700.(2800.)	Bis (2-ethylhexyl) phthalate	<7700.
Anthracene	<7700.(720.)	Di-n-octylphthalate	<7700.
Di-n-butylphthalate	<7700.	Benzo (b) fluoranthene	<7700.(2200.)
Fluoranthene	<7700.(4500.)	Benzo (k) fluoranthene	<7700.(780.)
Pyrene	<7700.	Benzo (a) pyrene	<7700.(1700.)
Butylbenzylphthalate	<7700.	Indeno (1,2,3-cd) pyrene	<7700.(500.)
3,3'-Dichlorobenzidine	<38,000.	Dibenz (a,h) anthracene	<7700.
		Benzo (g,h,i) perylene	<7700.(950.)

Comments: Values in parenthesis are estimated values, detected but below the quantitation limit.
Elevated detection limits due to matrix interferences.

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

Certification No.: NY034

Units: µg/kg dry weight (ppb)

Authorized:

Date: June 3, 1992

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. 2887.026.520

DESCRIPTION G.E., Pittsfield, MA B&B Job No. 101.75.16

South Side Pump Station Excavation Sampling

Date Analyzed 5-6-92 DATE COLLECTED See Below DATE RECEIVED 5-5-92

LAB ID NO.	DATE SAMPLED	PCB	COMMENTS	QC RESULTS
SPS-ES-C12	5-5-92	<1.	concrete	A
SPS-ES-C13	↓	↓	↓	↓
SPS-ES-C14				
SPS-ES-C15				
A) Reagent Blank 2		<1.		
Reference Sample 2		10.9/10. = 109%		
Matrix Spike SPS-ES-C12		11.2/10. = 112%		
Matrix Spike Duplicate		11./10. = 110%		
Precision		11.2/vs. 11.0	RPD = 1.8%	

Comments:

Certification No.: NY034

Units: mg/kg(ppm)

Authorized:

Date: June 1, 1992

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

ATTACHMENT 3

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

Title: TCLP Analysis of South Side Pumping Station Sample
Number: EL-92-038
Date: May 13, 1992
Test by: Alpha Analytical
Requested by: J DeSantis
Report by: WA Fessler
Approved: 5/13/92

One sample of soil from the South Side Pumping Station excavation was sent to Alpha Analytical Laboratories for determination of toxicity characteristics due to metals listed in the Toxicity Characteristic Leaching Procedure (TCLP, 40CFR268, Appendix I). The results are summarized in the attached tables.

The sample did not show the characteristic of toxicity..

A copy of the report from Alpha is attached.

DISTRIBUTION: Manager, Environmental Laboratory C23
J DeSantis 11-205

EL-92-038
May 13, 1992

Sample ID SPS-ES-C11	Result mg/L	Regulatory Limit mg/L	
Arsenic	< 1	5.000	OK
Barium	< .5	100.000	OK
Cadmium	< .1	1.000	OK
Chromium	< .2	5.000	OK
Lead	< .5	5.000	OK
Mercury	< .005	.200	OK
Selenium	< .05	1.000	OK
Silver	< .1	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	Laboratory Job Number:	9202875
Address:	100 Woodlawn Avenue	Invoice Number:	29525
	Pittsfield, MA 01201	Date Received:	04/24/92
Attn:	William Fessler	Date Reported:	05/11/92
Client Designation:	Project# EL92103V	Delivery Method:	Alpha Courier

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
9202875.1	SPS-ES-C11	N/A
9202875.1S	SPS-ES-C11 (Spike Recovery)	N/A

Authorized by: _____
Scott McLean - Laboratory Director

cp

APPENDIX L, SECTION 7

SUBJECT	PROJ. NO.	BY	DATE	SHEET
SWEEPER SOIL SAMPLING BLDG. 10	101-51-05	NE	7-2-96	

Request for Sampling

Date: 6-20-96

Initiator: Bob Peasley

BLDG Location: West of Bldg. 10

Contact Person Bob Peasley Ext 5951

Item Description

1) Soil

2)

Notes: Soil from G.E sweeper was placed in two piles west of Bldg. 10. Sampling program was conducted on a discrete - grab sample basis. Only the sweeper soil piles were sampled. The two soil piles were approximately 10 cubic yards and 12 cubic yards

DELIVERED TO
GRANT BOWMAN
7-9-90

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Sweeper Soil Sampling (Bldg.10)

Date: 06/25/90
File No: 101-51-05
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB sampling conducted outside Bldg.10 on 06/20/90. 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

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
10-SOIL-C1	6.2	C1	SOIL	DISCRETE-GRAB	0'-2'
10-SOIL-C2	<1.	C2	SOIL	DISCRETE-GRAB	0'-2'

bee

1704

GEO LABORATORIES, INC.

PRELIMINARY

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-51-05

DATE COLLECTED See Below DATE RECD. 6/20/90 DATE ANALYZED 6/21/90

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE ppm	PCTS (%)	Total PCB ppm dry wt.	COMMENTS	QC RESULTS
12T-Soil-C1	6/21/90	6/20/90	6.5	92.8	7.	Soils	A
↓ ↓ C2			4.1	92.6	4.4		
10-Soil-C1			6.2	92.2	6.7		
↓ ↓ C2			<1.	92.9	<2.		
9C-Soil-C1			<1.	93.7	<2.		
↓ ↓ C2			6.	93.8	6.4		
A) Duplicate of MAC-Soil-C2			6.9	93.8	7.4	vs 6.4	% RPD=14
Lab Blank 1 6/21/90			→	—	<2.		

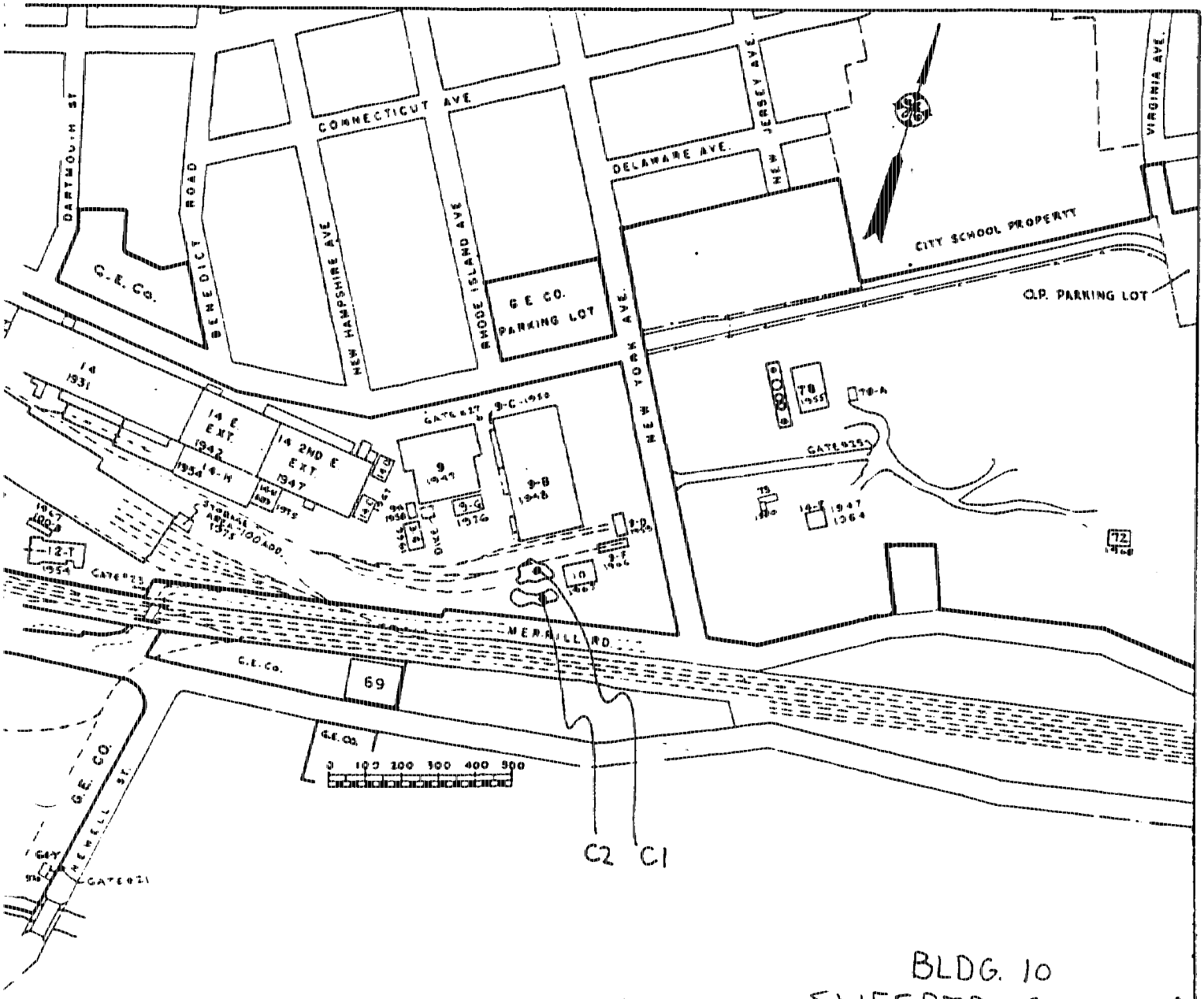
Methodology: Federal Register — 40 CFR, Part 136, October 26, 1984

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

GEO Laboratories, Inc.



BLDG. 10
SWEEPER SOIL SAMPLES
101-51-05

● - SAMPLE LOCATION

⬭ - SOIL PILE

PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1985

SCALE 1" = 200' DWG. NO. 6600

APPROVED [signature] 11/5/85

F5 P15 E

1704

OBG LABORATORIES, INC.

PRELIMINARY

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-51-05

DATE COLLECTED See Below DATE RECD. 6/20/90 DATE ANALYZED 6/21/90

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE mg/kg wet wt.	PCTS (%)	Total PCB mg/kg dry wt.	COMMENTS	QC RESULTS
1AT-Soil-C1	6/21/90	6/20/90	6.5	92.8	7.	Soils	A
↓ ↓ C2	↓	↓	4.1	92.6	4.4	↓	↓
10-Soil-C1			6.2	92.2	6.7		
↓ ↓ C2			<1.	92.9	<2.		
RC-Soil-C1			<1.	93.7	<2.		
↓ C2	↓	↓	6.	93.8	6.4	↓	↓
A) Duplicate of MRC-Soil-C2			6.9	93.8	7.4 vs 6.4		%RPD=14
Lab Blank / 6/21/90			—	—	<2.		

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

Units: mg/l (ppm) unless otherwise noted

Comments:

Authorized: _____

Date: _____

OBG Laboratories, Inc.
Rear 4962 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ NO.	BY	DATE	SHEET
12T-SWEEPER SOIL SAMPLING	101-51-05	TPM	6/20/90	1 of 2

LAB ID	JAR ID	DATE	TIME	LOCATION	DESCRIPTION
T-Soil-C1	12T-Soil-C1	6/20/90	11:20	C1	grab sample 0'-2'
T-Soil-C2	12T-Soil-C2	6/20/90	11:30	C2	grab sample 0'-2'

(1 pile - 11 cy.)

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
10 - SWEEPER SOIL SAMPLING	101-51-05	TPM	6/20/90	2 of 3

LAB ID	JAR ID	DATE	TIME	LOCATION	DESCRIPTION
10-SOIL-C1	10-SOIL-C1	6/20/90	11:40	C1	grab sample 0'-2' (12 C.Y.)
10-SOIL-C2	10-SOIL-C2	6/20/90	12:00	C2	grab sample 0'-2' (10. C.Y.)

BLASLAND & BOUCK ENGINEERS, P.C.

SUBJECT	PROJ. NO.	BY	DATE	SHEET
MRC - SWEEPER SOIL SAMPLING	101-51-05	TPM	6/20/90	3 of 3

LAB ID	JAR ID	DATE	TIME	LOCATION	DESCRIPTION
RC-SOIL-C1	MRC-SOIL-C1	6/20/90	12:10	C1	grab sample 0'-2' (24 c.y.)
RC-SOIL-C2	MRC-SOIL-C2	6/20/90	12:30	C2	grab sample 0'-2' (13 c.y.)

BLASLAND & BOUCK ENGINEERS P.C.

SUBJECT: Bldgs 9 & 10 Pad Sweepings Soil Sampling

PROJECT NO: 101-75-22

BY: S E Melbourne

DATE: 10-18-91

REQUEST FOR SAMPLING

DATE: 10-14-91

INITIATOR: Aimee Cole (GS)

BLDG. LOCATION: Bldgs 9 & 10 Pad

CONTACT PERSON: Aimee Cole (GS) EXT: 2534

ITEM DESCRIPTION:

1.) Soil

NOTES:

The following sampling criteria was implemented at the request of Aimee Cole (GS):

1.) Soil from sweepings throughout the plant to be sampled for PCB's (Method 8080) and TCLP's.

2.) TCLP samples to be sent to Alpha Analytical via (Jeff Nicholson) GE Lab, Pittsfield, MA.

The sampling program was conducted on a discrete-grab sample basis.

DELIVERED TO GRANT BOWMAN (GE) 10-6-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldgs 9 & 10 Pad Sweepings Soil Sampling

Date: 10-18-91
File No: 101-75-22
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB and TCLP sampling program conducted outside Bldgs 9 & 10 Pad on 10-14-91. A drawing showing the sample location is attached (see figure 1). A preliminary analytical report provided by OBG Laboratories and a final analytical report provided by Alpha Analytical have also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
9 & 10-PD-SP-C1	2.5	1	SOIL	DISCRETE-GRAB	0"- 4"
9 & 10-PD-SP-C2	2.1	2	SOIL	DISCRETE-GRAB	0'- 8"
9 & 10-PD-SP-C3	2.0	3	SOIL	DISCRETE-GRAB	0"- 12"

TCLP SAMPLING RESULTS

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
9 & 10-PD-SP-C4	SEE ALPHA LAB REPORT	1 - 3	SOIL	DISCRETE-GRAB	0"- 12"

sem

3321

PRELIMINARY

OCT 16 1991

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-22

Date Analyzed 10-15+10-16-91 DATE COLLECTED See Below DATE RECEIVED 10/15/91

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
9410PD-SP-C1	10/15/91	10/14/91	2.3	91	2.5	soil	A
-C2			1.7	84	2.1		
-C3			1.9	91	2.0		
A) Reagent Blank 1:					<1		
Matrix Spike 10-PD-SP-C4:					3.1/3.3=94		1
Matrix Spike Duplicate:					3.1/3.3=94		1
Precision:					3.1 vs 3.1=0		1

Comments:

Certification No.:

Units: ug/g

Authorized:

Date:

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

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

Title: TCLP Analyses of Building 9 & 10 pad samples
Number: EL-91-052
Date: November 4, 1991
Test by: Alpha Analytical
Requested by: A. Cole
Report by: WA Fessler
Approved: 11/4/91

Two samples from Building 9 & 10 pad sweepings were 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.

The samples do not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

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

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	Laboratory Job Number:	916711
Address:	100 Woodlawn Avenue	Invoice Number:	25266
	Pittsfield, MA 01201	Date Received:	10/16/91
Attn:	William Fessler	Date Reported:	10/30/91
Client Designation:	Project# 101.75.22	Delivery Method:	Alpha Courier

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
916711.1	9 & 10-PD-SP-C4	N/A
916711.1S	9 & 10-PD-SP-C4 (Spike Recovery)	N/A

Authorized by: _____
Scott McLean - Laboratory Director

cp

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: 916711.1 Date Received: 10/16/91

Sample Matrix: Soil Date Reported: 10/30/91

Condition of Samples: Satisfactory Field Prep: None

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

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES EXT/PREP	DATES ANALYSIS
TCLP Extraction	----	-----	---	13	1311	10/20/91	------
RCRA 8 Metals							
Arsenic	ND	mg/L	0.005	1	7060	10/23/91	10/25/91
Barium	0.26	mg/L	0.05	1	6010	10/23/91	10/25/91
Cadmium	ND	mg/L	0.01	1	6010	10/23/91	10/25/91
Chromium	ND	mg/L	0.02	1	6010	10/23/91	10/25/91
Lead	ND	mg/L	0.05	1	6010	10/23/91	10/25/91
Mercury	ND	mg/L	0.005	1	7470	10/23/91	10/25/91
Selenium	ND	mg/L	0.005	1	7740	10/23/91	10/25/91
Silver	0.01	mg/L	0.01	1	6010	10/23/91	10/25/91
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	10/24/91	10/27/91
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	10/24/91	10/27/91
Hexachlorobenzene	ND	mg/L	0.011	1	8270	10/24/91	10/27/91
Hexachloro-1,3-butadiene	ND	mg/L	0.032	1	8270	10/24/91	10/27/91
Hexachloroethane	ND	mg/L	0.020	1	8270	10/24/91	10/27/91
Nitrobenzene	ND	mg/L	0.0076	1	8270	10/24/91	10/27/91
Pentachlorophenol	ND	mg/L	0.0368	1	8270	10/24/91	10/27/91
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	10/24/91	10/27/91
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	10/24/91	10/27/91
Pyridine	ND	mg/L	0.10	1	8270	10/24/91	10/27/91

Acid/Base/Neutral Extractables	%Surrogate Recovery
2-Fluorophenol	60%
Phenol-d6	52%
Nitrobenzene-d5	88%
2-Fluorobiphenyl	68%
2,4,6-Tribromophenol	59%
4-Terphenyl-d14	116%

NOTE: TCLP 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: 916711.1 Date Received: 10/16/91

Sample Matrix: Soil Date Reported: 10/30/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar & 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	10/23/91	------
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	10/26/91
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	10/26/91
Chlorobenzene	ND	mg/L	0.018	1	8240	----	10/26/91
Chloroform	ND	mg/L	0.0075	1	8240	----	10/26/91
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	10/26/91
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	10/26/91
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	10/26/91
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	10/26/91
Trichloroethene	ND	mg/L	0.005	1	8240	----	10/26/91
Vinyl chloride	ND	mg/L	0.018	1	8240	----	10/26/91
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	10/26/91

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	93%
Toluene-d8	110%
4-Bromofluorobenzene	90%

NOTE: TCLP 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: 916711.1S **Date Received:** 10/16/91

Sample Matrix: Soil **Date Reported:** 10/30/91

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

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

Analysis Requested: Analysis as listed below

PARAMETER	%RECOVERY
TCLP RCRA 8 Metals	
Arsenic	102%
Barium	102%
Cadmium	97%
Chromium	96%
Lead	97%
Mercury	105%
Selenium	89%
Silver	77%
Acid/Base/Neutral Extractables	
Total Cresol	65%
2,4-Dinitrotoluene	103%
Hexachlorobenzene	104%
Hexachloro-1,3-butadiene	74%
Hexachloroethane	90%
Nitrobenzene	141%
Pentachlorophenol	108%
2,4,5-Trichlorophenol	86%
2,4,6-Trichlorophenol	93%
Pyridine	73%

Acid/Base/Neutral Extractables	%Surrogate Recovery
2-Fluorophenol	68%
Phenol-d6	74%
Nitrobenzene-d5	97%
2-Fluorobiphenyl	90%
2,4,6-Tribromophenol	83%
4-Terphenyl-d14	112%

NOTE: TCLP 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: 916711.1S Date Received: 10/16/91

Sample Matrix: Soil Date Reported: 10/30/91

Condition of Samples: Satisfactory Field Prep: None

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

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	%RECOVERY
TCLP Volatile Organics	
Benzene	94%
Carbon tetrachloride	91%
Chlorobenzene	94%
Chloroform	88%
1,4-Dichlorobenzene	84%
1,2-Dichloroethane	77%
1,1-Dichloroethene	82%
Tetrachloroethene	94%
Trichloroethene	97%
Vinyl chloride	104%
Methyl ethyl ketone	105%

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	80%
Toluene-d8	97%
4-Bromofluorobenzene	95%

NOTE: TCLP results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

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.

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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.

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.

25. Official Methods of Analysis, AOAC, 14th Edition, 1984.

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75.22
PROJECT NAME: BLDG. 9&10 PAD (SWEEPING PILE) SAMPLING

LAB ID	~~CUSTODY TAPE NUMBER~~	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TCLP NO HERICIDES OR PESTICIDES	REMARKS
9&10-PD-SP-C4		10-14	14:50		X	X			5	X	SAMPLED FOR: AMIEE COLE

BRING TO G.E. LAB PITTSFIELD, MA. (JEFF NICHOLSON) FOR SHIPMENT TO ALPHA ANALYTICAL

Please send all results & invoices to:
W. A. Fessler, Mail Drop C23
G.E. Co., 100 Woodlawn Ave.
Pittsfield, Ma 01201

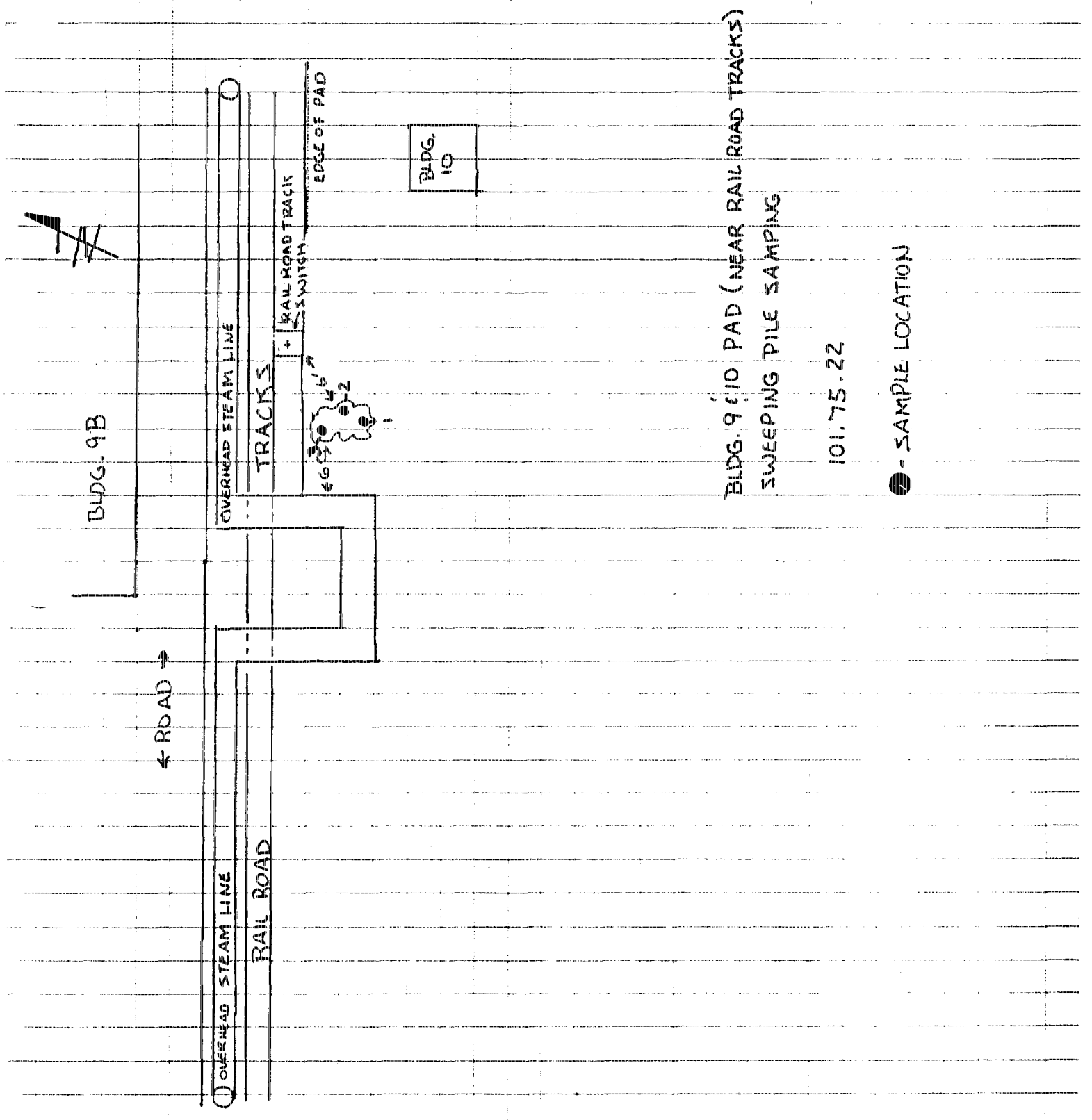
SAMPLED BY: (SIGNATURE) Bruce Cobb / D.D. Peart Jr.	DATE/TIME 10-14-91 14:50	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE) Bruce Cobb	DATE/TIME 10/15/91 0800	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE) J. Nicholson	DATE/TIME 10/16/91 5:30PM	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME 10/16 5:30	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) D.J. Desmoyen	DATE/TIME 10/15/91	8:10 AM	REMARKS: Use P.O. # PX302700

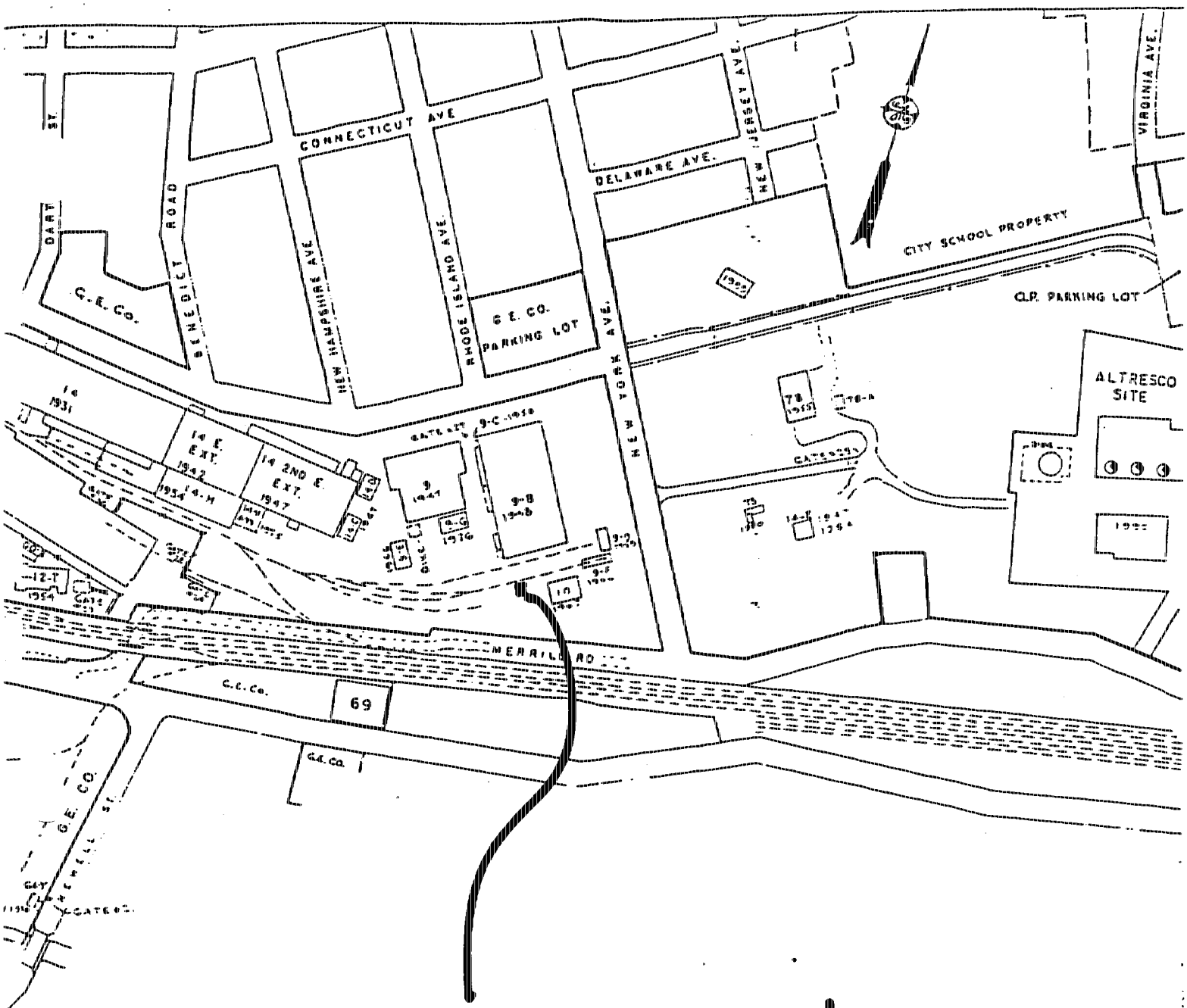
BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 9 & 10 PAD (NEAR RAIL ROAD TRACKS) SWEEPING PILE SAMPLING	101.75.22	AGP	10-17-91	

NOT TO SCALE

FIGURE #1





SITE LOCATION

PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1991

DWG. NO. 6600

APPROVED

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 61-75.22
PROJECT NAME: Bldg 9410 Pad Sweepings File Sampling

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCBTs Methanol 8080					REMARKS
9410-PD-SP-C1		10/14/91	1420		X	X			1	X					Sent to OBG P.H
9410-PD-SP-C2		10/14/91	1425		X	X			1	X					
9410-PD-SP-C3		10/14/91	1430		X	X			1	X					

SAMPLED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
AG MAE + JR Bruce Cobb	10/14/91	1430 TO 1430			10-15-91	0905	
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	
			Leslie Prudhomme	10-15-91	0805		

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101.75.22
PROJECT NAME: BLDG. 9410 PAD (SWEEPING PILE) SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TCLP NO HERICIDES OR PESTICIDES?					REMARKS
9410-PD-SP-C4		10-14	14:50		X	X	-	-	5	X					SAMPLED FOR:
															AMIEE COLE
															BRING TO G.E LAB
															PITTSFIELD, MA. (JEFF NICHOLSON)
															FOR SHIPMENT TO
															ALPHA ANALYTICAL

SAMPLED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
Bruce Colet QA Plant Sr.	10-14-91	14:50		Bruce Colet	10/15/91	08:00	
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	
			DJ Deamoyen	10/15/91	8:10 AM		

SLASLAND & BOUCK ENGINEERS P.C.

SUBJECT: Bldg 10 Pad Sweepings Soil Sampling

PROJECT NO: 101-75-22

BY: S E Melbourne

DATE: 10-18-91

REQUEST FOR SAMPLING

DATE: 10-14-91

INITIATOR: Aimee Cole (GS)

BLDG. LOCATION: Bldg 10-Yard Pad

CONTACT PERSON: Aimee Cole (GS) EXT: 2534

ITEM DESCRIPTION:

1.) Soil

NOTES:

The following sampling criteria was implemented at the request of Aimee Cole (GS):

1.) Soil from sweepings throughout the plant to be sampled for PCB's (Method 8080) and TCLP's.

2.) TCLP samples to be sent to Alpha Analytical via (Jeff Nicholson) GE Lab, Pittsfield, MA.

The sampling program was conducted on a discrete-grab sample basis.

DELIVERED TO GRANT
BOWMAN (GE)
10-6-91

BLASLAND AND BOUCK ENGINEERS P.C.

To: Files
From: Bruce Eulian
Re: Bldg 10 Pad Sweepings Soil Sampling

Date: 10-18-91
File No: 101-75-22
cc: Grant Bowman (GE)

The following is a summary of the sample results for the PCB and TCLP sampling program conducted in Bldg 10 Yard on 10-16-91. A drawing showing the sample location is attached (see figure 1). A preliminary analytical report provided by O86 Laboratories and a final analytical report provided by Alpha Analytical have also been included.

PCB SAMPLING RESULTS METHOD 8080

LAB ID	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
10-PD-SP-C1	3.2	1	SOIL	DISCRETE-GRAB	0'- 1'
10-PD-SP-C2	<1.0	2	SOIL	DISCRETE-GRAB	0'- 2'
10-PD-SP-C3	<1.0	3	SOIL	DISCRETE-GRAB	0'- 3'
10-PD-SP-C4	2.3	4	SOIL	DISCRETE-GRAB	0'- 1'
10-PD-SP-C5	1.8	5	SOIL	DISCRETE-GRAB	0'- 2'

TCLP SAMPLING RESULTS

LAB ID	TCLP RESULTS	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH
10-PD-SP-C6	SEE ALPHA LAB REPORT	1 - 5	SOIL	DISCRETE-GRAB	0'- 3'

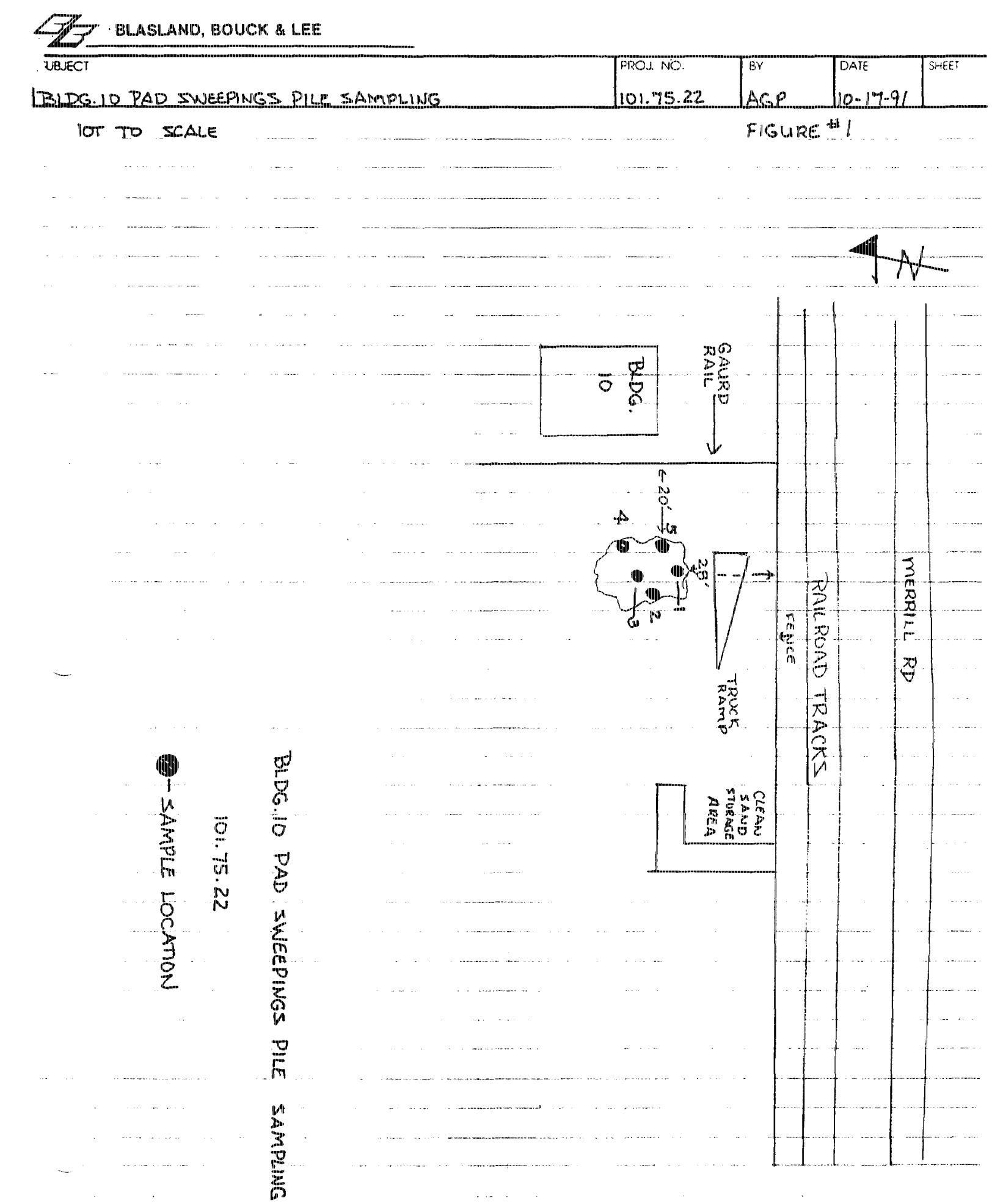
sem

BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDG. 10 PAD SWEEPINGS PILE SAMPLING	101.75.22	AGP	10-17-91	

LOT TO SCALE

FIGURE #1



BLDG. 10 PAD SWEEPINGS PILE SAMPLING

101.75.22

● - SAMPLE LOCATION

GENERAL ELECTRIC
ENVIRONMENTAL LABORATORY
Test Report

Title: TCLP Analyses of Building 9 & 10 pad samples
Test by: Alpha Analytical
Report by: WA Fessler

Number: EL-91-052
Date: November 4, 1991
Requested by: A. Cole
Approved: 11/4/91

Two samples from Building 9 & 10 pad sweepings were 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.

The samples do not show the characteristic of toxicity.

A copy of the report from Alpha is attached.

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

Sample ID		Result	Regulatory Lim
10-PD-SP-C6		mg/L	mg/L	
Arsenic		.005	5.000	OK
Barium		.17	100.000	OK
Cadmium	<	.01	1.000	OK
Chromium	<	.02	5.000	OK
Lead	<	.05	5.000	OK
Mercury	<	.005	.200	OK
Selenium	<	.005	1.000	OK
Silver		.01	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

Sample ID 9 & 10-PD-SP-C4		Result mg/L	Regulatory Lim mg/L	
Arsenic	<	.005	5.000	OK
Barium		.26	100.000	OK
Cadmium	<	.01	1.000	OK
Chromium	<	.02	5.000	OK
Lead	<	.05	5.000	OK
Mercury	<	.005	.200	OK
Selenium	<	.005	1.000	OK
Silver		.01	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	Laboratory Job Number:	916712
Address:	100 Woodlawn Avenue	Invoice Number:	25267
	Pittsfield, MA 01201	Date Received:	10/16/91
Attn:	William Fessler	Date Reported:	10/30/91
Client Designation:	Project# 101.75.22	Delivery Method:	Alpha Courier

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
916712.1	10-PD-SP-C6	N/A
916712.1S	10-PD-SP-C6 (Spike Recovery)	N/A

Authorized by: _____
Scott McLean - Laboratory Director

cp

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: 916712.1 Date Received: 10/16/91

Sample Matrix: Soil Date Reported: 10/30/91

Condition of Samples: Satisfactory Field Prep: None

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

Analysis Requested: Analysis as listed below

PARAMETER	RESULT	UNITS	MDL	REF*	METHOD	DATES EXT/PREP	DATES ANALYSIS
TCLP Extraction	----	-----	---	13	1311	10/20/91	------
RCRA 8 Metals							
Arsenic	0.005	mg/L	0.005	1	7060	10/23/91	10/25/91
Barium	0.17	mg/L	0.05	1	6010	10/23/91	10/25/91
Cadmium	ND	mg/L	0.01	1	6010	10/23/91	10/25/91
Chromium	ND	mg/L	0.02	1	6010	10/23/91	10/25/91
Lead	ND	mg/L	0.05	1	6010	10/23/91	10/25/91
Mercury	ND	mg/L	0.005	1	7470	10/23/91	10/25/91
Selenium	ND	mg/L	0.005	1	7740	10/23/91	10/25/91
Silver	0.01	mg/L	0.01	1	6010	10/23/91	10/25/91
Acid/Base Neutral Extractables							
Total cresol	ND	mg/L	0.029	1	8270	10/24/91	10/28/91
2,4-Dinitrotoluene	ND	mg/L	0.015	1	8270	10/24/91	10/28/91
Hexachlorobenzene	ND	mg/L	0.011	1	8270	10/24/91	10/28/91
Hexachloro-1,3-butadiene	ND	mg/L	0.032	1	8270	10/24/91	10/28/91
Hexachloroethane	ND	mg/L	0.020	1	8270	10/24/91	10/28/91
Nitrobenzene	ND	mg/L	0.0076	1	8270	10/24/91	10/28/91
Pentachlorophenol	ND	mg/L	0.0368	1	8270	10/24/91	10/28/91
2,4,5-Trichlorophenol	ND	mg/L	0.019	1	8270	10/24/91	10/28/91
2,4,6-Trichlorophenol	ND	mg/L	0.011	1	8270	10/24/91	10/28/91
Pyridine	ND	mg/L	0.10	1	8270	10/24/91	10/28/91

Acid/Base/Neutral Extractables	%Surrogate Recovery
2-Fluorophenol	31%
Phenol-d6	53%
Nitrobenzene-d5	77%
2-Fluorobiphenyl	62%
2,4,6-Tribromophenol	53%
4-Terphenyl-d14	104%

NOTE: TCLP 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: 916712.1 Date Received: 10/16/91

Sample Matrix: Soil Date Reported: 10/30/91

Condition of Samples: Satisfactory Field Prep: None

Number & Type of Containers: One glass jar & 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	10/23/91	------
Volatile Organics							
Benzene	ND	mg/L	0.005	1	8240	----	10/26/91
Carbon tetrachloride	ND	mg/L	0.005	1	8240	----	10/26/91
Chlorobenzene	ND	mg/L	0.018	1	8240	----	10/26/91
Chloroform	ND	mg/L	0.0075	1	8240	----	10/26/91
1,4-Dichlorobenzene	ND	mg/L	0.05	1	8240	----	10/26/91
1,2-Dichloroethane	ND	mg/L	0.0075	1	8240	----	10/26/91
1,1-Dichloroethene	ND	mg/L	0.0075	1	8240	----	10/26/91
Tetrachloroethene	ND	mg/L	0.0075	1	8240	----	10/26/91
Trichloroethene	ND	mg/L	0.005	1	8240	----	10/26/91
Vinyl chloride	ND	mg/L	0.018	1	8240	----	10/26/91
Methyl ethyl ketone	ND	mg/L	0.05	1	8240	----	10/26/91

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	90%
Toluene-d8	105%
4-Bromofluorobenzene	90%

NOTE: TCLP 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: 916712.1S Date Received: 10/16/91

Sample Matrix: Soil Date Reported: 10/30/91

Condition of Samples: Satisfactory Field Prep: None

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

Analysis Requested: Analysis as listed below

PARAMETER	%RECOVERY
TCLP RCRA 8 Metals	
Arsenic	100%
Barium	101%
Cadmium	98%
Chromium	99%
Lead	98%
Mercury	105%
Selenium	86%
Silver	5%
Acid/Base/Neutral Extractables	
Total Cresol	65%
2,4-Dinitrotoluene	103%
Hexachlorobenzene	104%
Hexachloro-1,3-butadiene	74%
Hexachloroethane	90%
Nitrobenzene	141%
Pentachlorophenol	108%
2,4,5-Trichlorophenol	86%
2,4,6-Trichlorophenol	93%
Pyridine	73%

Acid/Base/Neutral Extractables	%Surrogate Recovery
2-Fluorophenol	68%
Phenol-d6	74%
Nitrobenzene-d5	97%
2-Fluorobiphenyl	90%
2,4,6-Tribromophenol	83%
4-Terphenyl-d14	112%

NOTE: TCLP 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: 916712.1S Date Received: 10/16/91

Sample Matrix: Soil Date Reported: 10/30/91

Condition of Samples: Satisfactory Field Prep: None

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

Analysis Requested: Analysis as listed below

CONTINUED

PARAMETER	%RECOVERY
TCLP Volatile Organics	
Benzene	92%
Carbon tetrachloride	96%
Chlorobenzene	92%
Chloroform	85%
1,4-Dichlorobenzene	84%
1,2-Dichloroethane	92%
1,1-Dichloroethene	77%
Tetrachloroethene	92%
Trichloroethene	101%
Vinyl chloride	93%
Methyl ethyl ketone	96%

Volatile Organics	% Surrogate Recovery
1,2-Dichloroethane-d4	80%
Toluene-d8	100%
4-Bromofluorobenzene	96%

NOTE: TCLP results are not spike recovery corrected.

COMMENTS: * Complete list of References found in Addendum I

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.

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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.

25. Official Methods of Analysis, AOAC, 14th Edition, 1984.

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
101.75.22	BLDG. 10 PAD (SWEEPING PILE) SAMPLING

LAB ID	~~CUSTODY TAPE NUMBER~~	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	TCLP NO HERBICIDES OR PESTICIDES					REMARKS
10-PD-SP-C6		10-14	14:15		X	X			5	X					SAMPLED FOR: AMIEE COLE
															BRING TO G.E. LAB PITTSFIELD, MA. (JEFF NICHOLSON) FOR SHIPMENT TO ALPHA ANALYTICAL

Please send all results and invoices to.
W.A. Fessler Mail Drop C23
GE Co. 100 Woodlawn Ave.
Pittsfield, Ma 01201

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Bruce Cobb; A.A. Peart Jr.	10-14-91 14:15		Bruce Cobb	10/15/91 0810	

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
J Nicholson	10/16/91 3:08AM	[signature]		10/16 53	[signature]

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS
		G.J. Desnoyers	10/15/91 8:10 AM	Use P.O. PX 3021700

3322

PRELIMINARY

OCT 16 [redacted]

OBG LABORATORIES, INC.

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-22

Date Analyzed 10-15→10-16-91 DATE COLLECTED See Below DATE RECEIVED 10/15/91

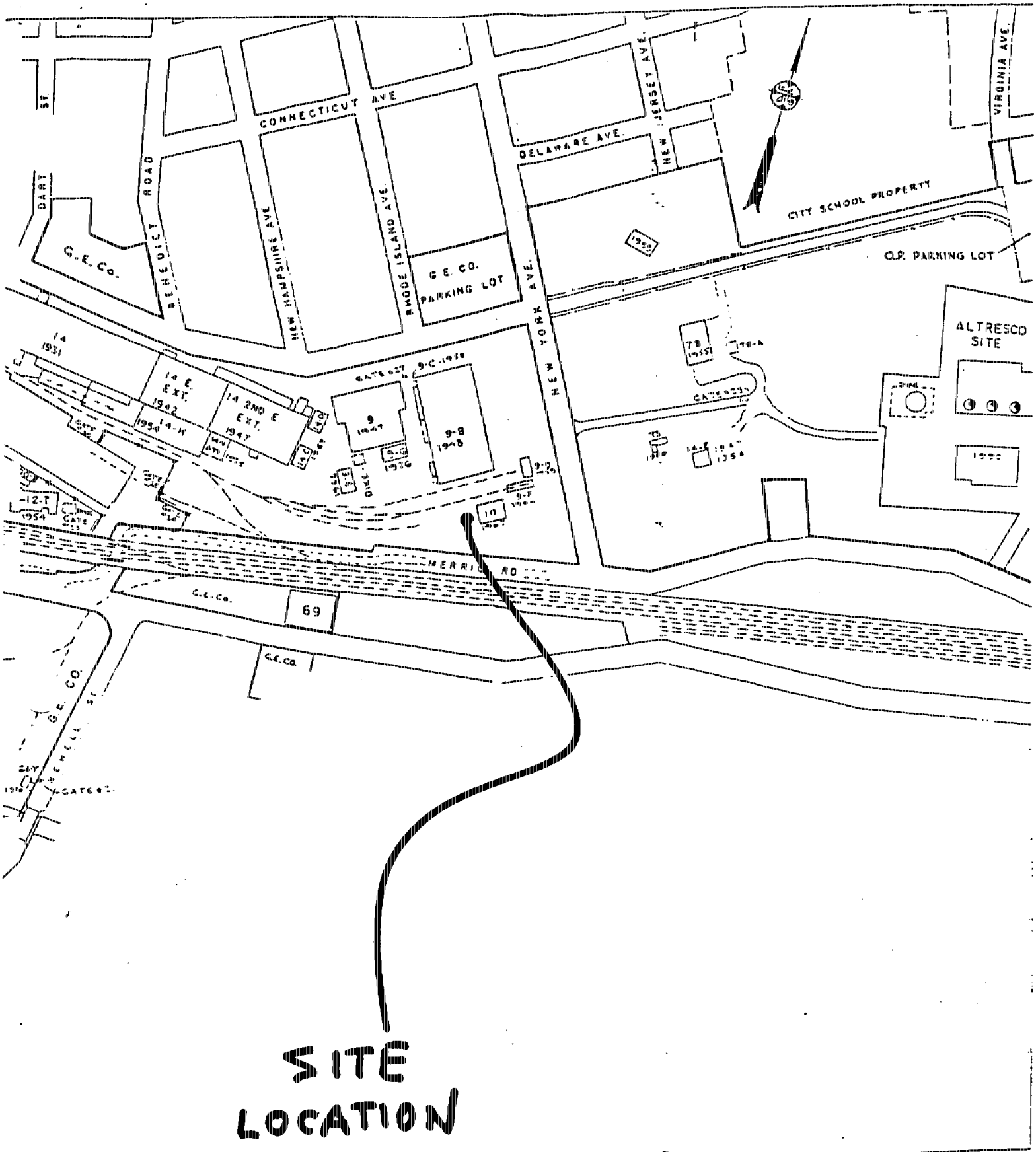
Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
10-PD-SP-C1	10/15/91	10/14/91	3.0	94	3.2	soil	A
-C2			<1 (<30)		<1		
-C3			<1 (<56)		<1		
-C4			2.2		2.3		
-C5			1.7		1.8		
A) Reagent Blank 1:					<1		
Matrix Spike 10-PD-SP-C4:					3.1/3.3=94%		
Matrix Spike Duplicate:					<1/3.3=94%		
Precision:					3.1 vs 3.1=	0%	

Comments:

Certification No.:

Units: ug/g

Authorized: _____



PITTSFIELD WORKS

GROUND PLAN

SHEET-1

CORRECTED TO JAN. 1, 1991

DWG. NO. 6600

APPROVED W. Cote 1/5/91

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 10.75.22
PROJECT NAME: BLDG. 10 PAD (SWEEPING PILE) SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE TYPE: SOLID	WIPE	WATER	NO. OF CONTAINERS	TCLP NO HERBICIDES OR PESTICIDES					REMARKS
10-PD-SP-C6		10-14	14:15		X	X			5	X					SAMPLED FOR AMIEE COLE
															BRING TO G.E. LAB PITTSFIELD, MA. (JEFF NICHOLSON) FOR SHIPMENT TO ALPHA ANALYTICAL

SAMPLED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
[signature] O.D. Pont Jr.	10-14-91 14:15		[signature]	10/15/91 0810	
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
		G.J. Desnoyer	10/15/91 8:10 AM	

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101-75-22
PROJECT NAME: Bldg 10 Pad Sweepings Pile Sampling

LAB ID	~~CUSTODY TAPE NUMBER~~	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB's Method 8080					REMARKS
10-PD-SP-C1		10/14/91	1340		X	X			1	X					Sent to OBG Pitt.
10-PD-SP-C2		10/14/91	1345		X	X			1	X					
10-PD-SP-C3		10/14/91	1350		X	X			1	X					
10-PD-SP-C4		10/14/91	1355		X	X			1	X					
10-PD-SP-C5		10/14/91	1400		X	X			1	X					

SAMPLED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)
AG Perry JR Bruce Cobb	10/14/91	1340 TO 1400		Russell Steel Jr	10-15-91	0805	
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	
			Leslie Prudhomme	10-15-91	0805		

PRELIMINARY

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

To: Files Date: 6-16-92

From: Bruce Eulian File No: 101-75-22

Re: Bldgs.10 & 64 Yard Pads
Sweeper Sand Sampling

INITIATOR: Aimee Cole (GE)

DATE: 6-15-92

LOCATION: Bldgs.10 & 64 Yard Pads

CONTACT PERSON: Aimee Cole EXT: 2534

ITEM DESCRIPTION:

1.) Sand (discrete-grab)

PURPOSE: To collect samples for GE to determine the proper disposal method for the sand that was used by GE to sand the roads with-in the plant. The sand was swept up and placed in a pile on the bldg.10 yard pad (approximately 5 cu. yds. of sand) and on the bldg.64 yard pad (approximately 17.5 cu. yds.).

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

1.) Sand is to be sampled for PCB's method 8080. The sand is not to be screened with a P.I.D.,per the sampling request letter (see attachment 2) from Aimee Cole (GE) dated 6-15-92.

agp

DELIVERED TO GRANT BOWMAN (GE) 7-2-92

PRELIMINARY

BLASLAND AND BOUCK ENGINEERS P.C.

SAMPLING PROGRAM FIELD SUMMARY

o: Files
rom: Bruce Eulian
e: Bldgs.10 & 64 Yard Pads
Sweeper Sand Sampling

Date: 6-25-92
File No: 101-75-22
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on 6-15-92,on the sand that was used by GE during the winter o sand roads with-in the plant. The sand was swept up by GE and placed into a pile on the bldg.10 yard pad (approximately 5 cu. ds.of sand) and on the bldg.64 yard pad (approximately 17.5 cu. yds.).

At the request of Aimee Cole (GE) the following samples were collected and analyzed for PCB's method 8080.

- 3 discrete-grab samples of sand from the bldg.10 yard pad
- 5 discrete-grab samples of sand from the bldg.64 yard pad

The sand samples were not screened with a P.I.D. per the sampling request (see attachment 2) from Aimee Cole (GE) dated -15-92. A summary table of the sampling program results has been provided (Table 1) including drawings showing the site ications (Figure 1) and sample locations (Figures 2 & 3). A preliminary analytical report provided by OBG Laboratories has been included (Attachment 1).

p

PRELIMINARY

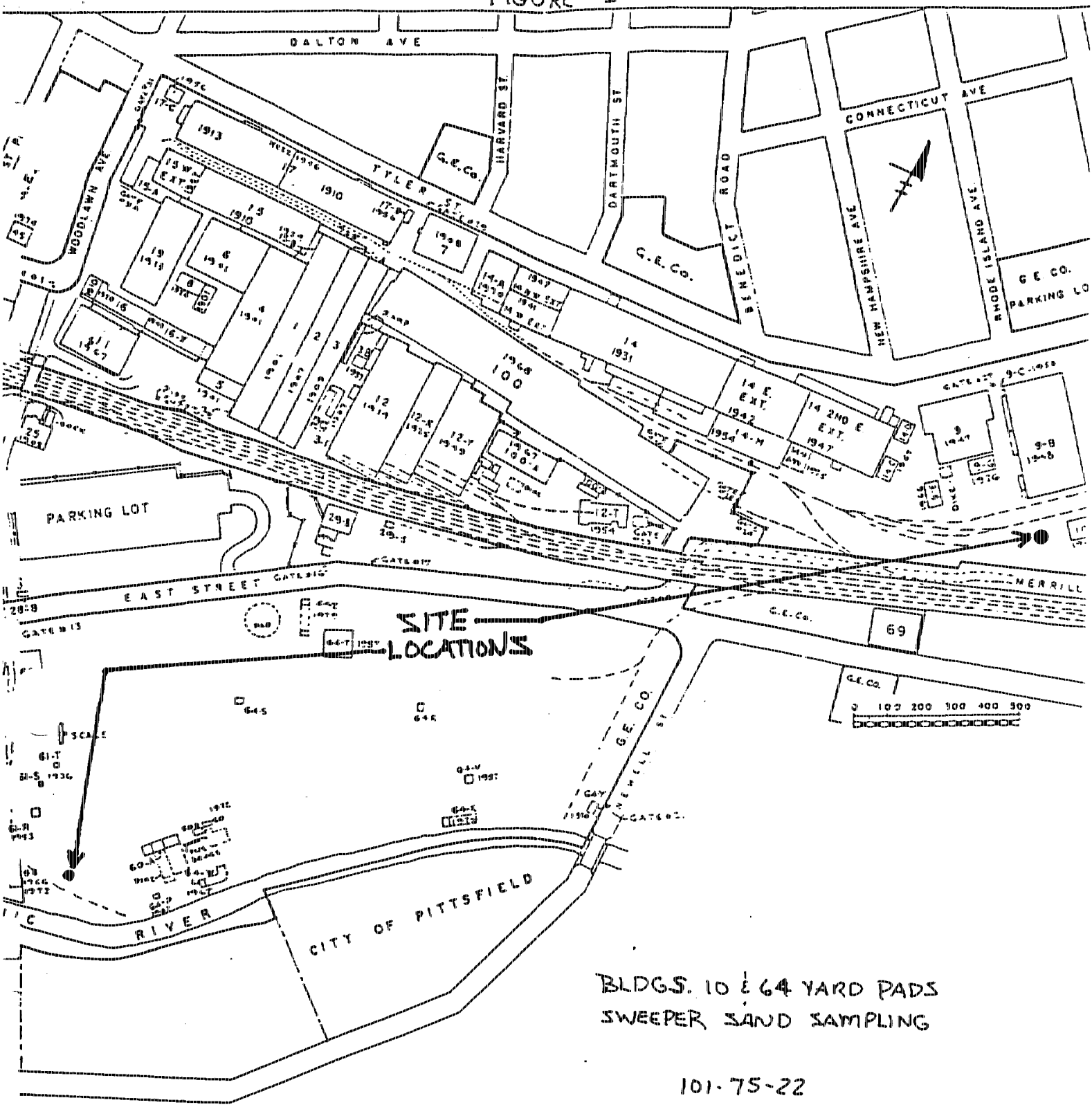
Bldgs.10 & 64 Yard Pads
Sweeper Sand Sampling
101-75-22

Table 1

B SAMPLING RESULTS METHOD 8080

B ID	SAMPLE DATE	TOTAL PCB PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
)G.10 YARD PAD							
)-SS-C1	6-15-92	3.3	1	SAND	DISCRETE-GRAB	0 - 1'	3
)-SS-C2	6-15-92	1.2	2	SAND	DISCRETE-GRAB	1 - 2'	3
)-SS-C3	6-15-92	2.4	3	SAND	DISCRETE-GRAB	2 - 3'	3
)G.64 YARD PAD							
)-SS-C1	6-15-92	9.1	1	SAND	DISCRETE-GRAB	0 - 1'	4
)-SS-C2	6-15-92	4.8	2	SAND	DISCRETE-GRAB	1 - 2'	4
)-SS-C3	6-15-92	11.0	3	SAND	DISCRETE-GRAB	2 - 3'	4
)-SS-C4	6-15-92	6.8	4	SAND	DISCRETE-GRAB	0 - 1'	4
)-SS-C5	6-15-92	4.5	5	SAND	DISCRETE-GRAB	1 - 2'	4

FIGURE #1



BLDGS. 10 & 64 YARD PADS
SWEEPER SAND SAMPLING

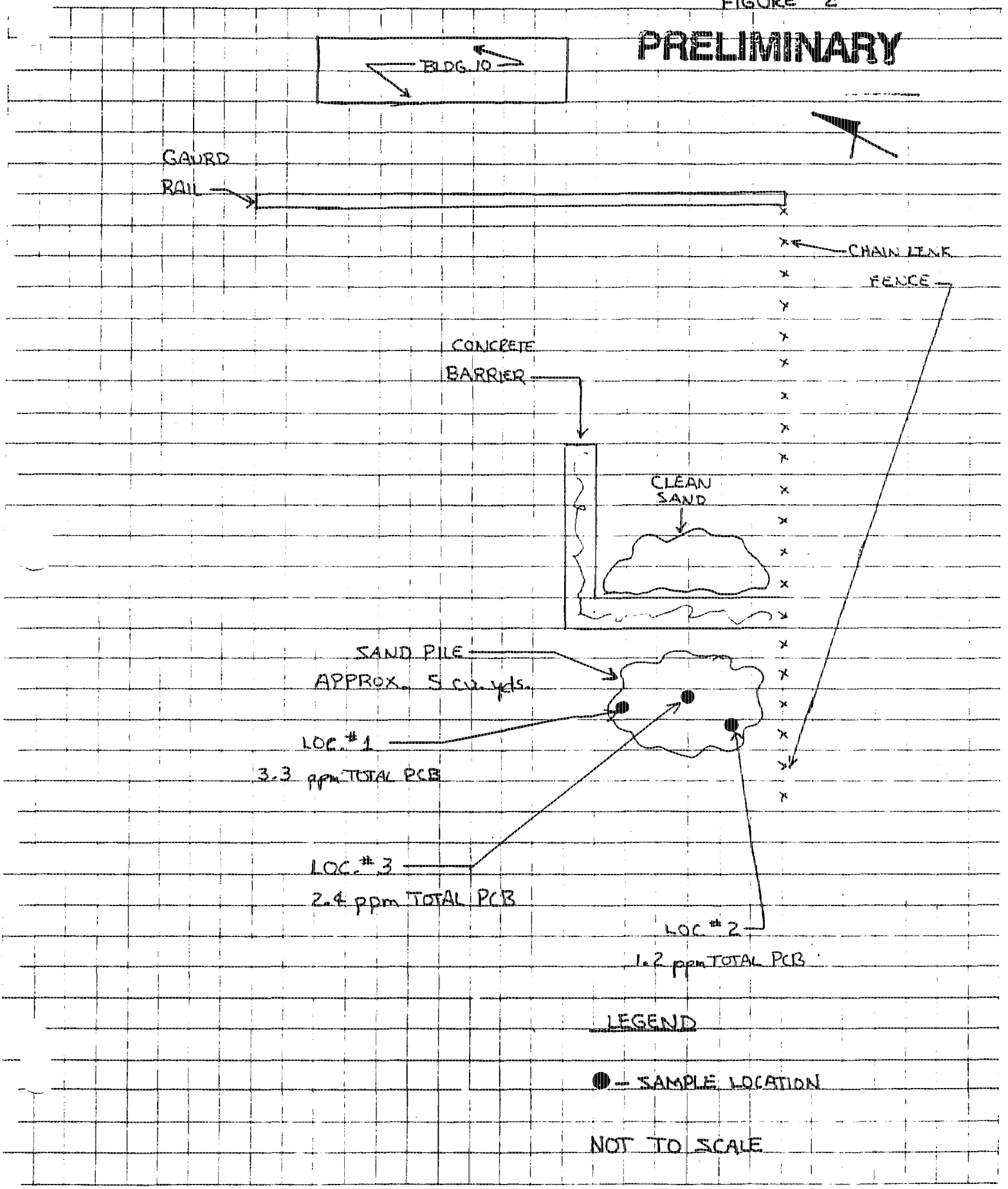
101-75-22

BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
10 & 64 YARD PADS SWEEPER SAND SAMPLING	101-75-22	AGP	6-15-92	1 of 2

FIGURE # 2

PRELIMINARY

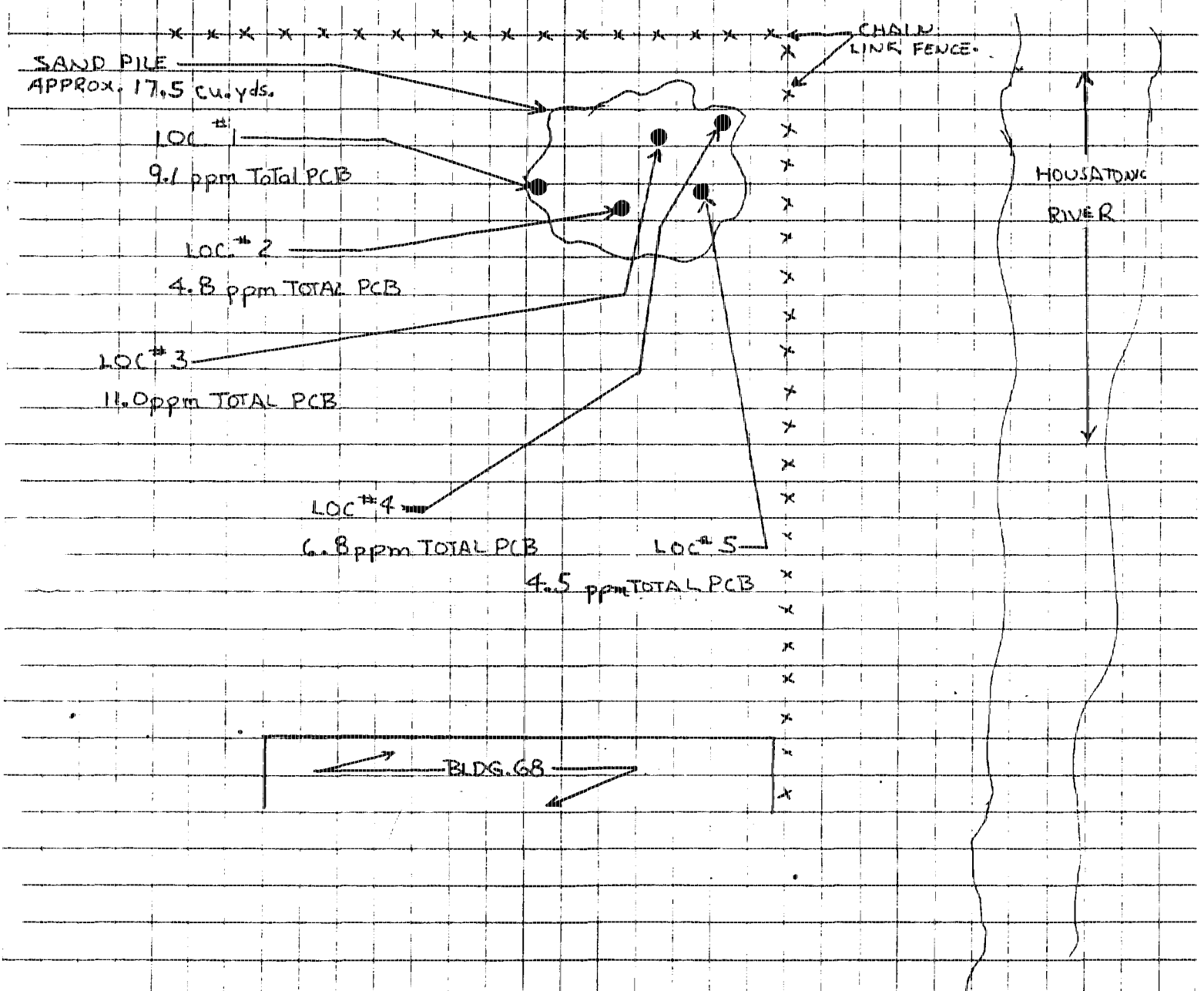


BLASLAND, BOUCK & LEE

SUBJECT	PROJ. NO.	BY	DATE	SHEET
BLDGS. 10 & 64 YARD PAD SWEEPER SAND SAMPLING	101-75-22	AGP	6-15-92	2 of 2

FIGURE # 3

PRELIMINARY



LEGEND

● — SAMPLE LOCATION

NOT TO SCALE

ATTACHMENT 1

3945

OBG LABORATORIES, INC.

PRELIMINARY
JUN 16 1992

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-22

Bldg 10 Pad Sweeper Sand Sampling

Date Analyzed 6/16/92 DATE COLLECTED See Below DATE RECEIVED 6/15/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
10P-SS-C1	6/15/92	6/15/92	3.2	96	3.3	Sand	A
10P-SS-C2	↓	↓	1.1	96	1.2	↓	↓
10P-SS-C3			2.3	95	2.4		

A) Reagent Blank 2: <1

Reference Sample 2: 4.3/3.3 = 130%

Matrix Spike A-4: 2.7/3.3 = 82%

Matrix Spike Duplicate: 3.2/3.3 = 97%

Precision: 2.7 vs 3.2 = 17% RPD

Comments:

Certification No.:

Units: mg/kg

Authorized:

Date:

3946

OBG LABORATORIES, INC.

PRELIMINARY
JUN 16 1992

Laboratory Report

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

DESCRIPTION G.E., Pittsfield Job No. 101-75-22

Bldg 64 Pad Sweeper Sand Sampling

Date Analyzed 6/16/92 DATE COLLECTED See Below DATE RECEIVED 6/15/92

Lab ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS %	PCB	COMMENTS	QC RESULTS
64P-SS-C1	6/15/92	6/15/92	8.7	96	9.1	sand	A
64P-SS-C2	↓	↓	4.6	96	4.8	↓	↓
64P-SS-C3			10	95	11		
64P-SS-C4			6.4	94	6.8		
64P-SS-C5			4.2	94	4.5		
A) Reagent Blank 2:					<1		
Reference Sample 2:					4.3/3.3 =	130%	
Matrix Spike A-4					2.7/3.3 =	82%	
Matrix Spike Duplicate					3.2/3.3 =	97%	
Precision:					2.7 VS 3.2	= 17% RPD	

Comments:

Certification No.:

Units: mg/kg

Authorized:

Date:

ATTACHMENT 2

6-15-92 supercedes 6-10-92 request

SAMPLING REQUEST

TO: B. EULIAN B & B

FROM: AIMEE COLE GEC

SAMPLING OF PILED DIRT

LOCATION: BLDG. 64 PAD AND BLDG. 10 PAD

The following piles of dirt and/or sweepings should be sampled for PCB. No PID reading is requested for these piles.

LOCATION	TYPE	SAMPLE FOR	QUANTITY
64 YARD	SWEEPINGS	PCB-5 SAMPLES	17.5 YARDS
BLDG. 10 YARD	SWEEPINGS	PCB-3 SAMPLES	5 YARDS

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

CHAIN OF CUSTODY RECORD

PROJECT NO.: 101-75-22
PROJECT NAME: BLDG. 64 PAD SWEEPER SAND SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID (SAND)	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB's METHOD 8080					REMARKS
64P-SS-C1		6-15-92	1215		X	X			1	X					To: OBG LAB
64P-SS-C2		6-15-92	1220		X	X			1	X					Pittsfield, Ma
64P-SS-C3		6-15-92	1225		X	X			1	X					
64P-SS-C4		6-15-92	1230		X	X			1	X					
64P-SS-C5		6-15-92	12:35		X	X			1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
A. D. Bart Jr.	6-15-92 1215 TO 1235				
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	
A. D. Bart Jr.	6-15-92 1350	Diane Lowellen	6/15/92 1250		

BLASLAND & BOUCK ENGINEERS, P.C.
6723 Towpath Road, Box 66
Syracuse, New York 13214-0066 (315) 446-9120
FAX: (315) 449-0017

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME
101.75.22	BLDG 10 PAD SWEEPER SAND SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID (SAND)	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCB'S METHOD 8080					REMARKS
10P-SS-C1		6-15-92	12:00		X	X			1	X					
10P-SS-C2		6-15-92	12:05		X	X			1	X					
10P-SS-C3		6-15-92	12:10		X	X			1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Q. H. Peart Jr.	6-15-92 12:00 TO 12:10				
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	
Q. H. Peart Jr.	6-15-92 1250	Diane Lewellen	6/15/92 1250	SENT TO OBG LABS, PITTSFIELD	

6-15-92 supercedes 6-10-92 request

SAMPLING REQUEST

TO: B. EULIAN B & B

FROM: AIMEE COLE GEC

SAMPLING OF PILED DIRT

LOCATION: BLDG. 64 PAD AND BLDG. 10 PAD

The following piles of dirt and/or sweepings should be sampled for PCB. No PID reading is requested for these piles.

LOCATION	TYPE	SAMPLE FOR	QUANTITY
64 YARD	SWEEPINGS	PCB-5 SAMPLES	17.5 YARDS
BLDG. 10 YARD	SWEEPINGS	PCB-3 SAMPLES	5 YARDS

BLASLAND, BOUCK & LEE, INC.

REQUEST FOR SAMPLING

TO: Files
FROM: Bruce Eulian
RE: Sweepings Pile Sampling

DATE: June 16, 1994
FILE NO.: 201.18.11

INITIATOR: Aimee Cole (GE)

DATE: 6-6-94

LOCATION: Bldg 10 (outside west end)

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

ITEM DESCRIPTION:

1.) Soil Sweepings

PURPOSE: To collect samples for GE to determine the proper disposal method of the soil sweepings that were used by GE within the plant throughout the winter. The soil sweepings were placed into piles located outside the west end of Bldg 10.

NOTES: See attached letter from Aimee Cole (GE) to Bruce Eulian (BBL) dated June 6, 1994.

1.) One (1) field-composite sample for every ten (10) cubic yards of the soil sweepings is to be collected and analyzed for PCBs (Method 8080).

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

jh
June 16, 1994
1611spe.cov

Delivered To
Grant Bowman (GE)
6-16-94

BLASLAND, BOUCK & LEE, INC.

SAMPLING PROGRAM FIELD SUMMARY

TO: Files
FROM: Bruce Eulian
RE: Sweepings Pile Sampling

DATE: June 14, 1994
FILE NO.: 201.18.11
cc: Grant Bowman (GE)

The following is a summary of the sampling program conducted on 6-14-94 on the soil sweepings that were used by GE throughout the winter. The soil sweepings were found placed into approximately 10 piles totalling approximately 41.3 cubic yards, located outside the west end of Bldg 10.

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

- Seven (7) field-composite samples of the soil sweepings were collected and analyzed for PCBs (Method 8080).

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). Preliminary analytical reports provided by OBG Laboratories of Pittsfield, MA (Attachment 1) and a copy of the chain of custody that accompanied these samples (Attachment 2) are also included.

jh
June 14, 1994
1811spsum

BLASLAND, BOUCK & LEE, INC.

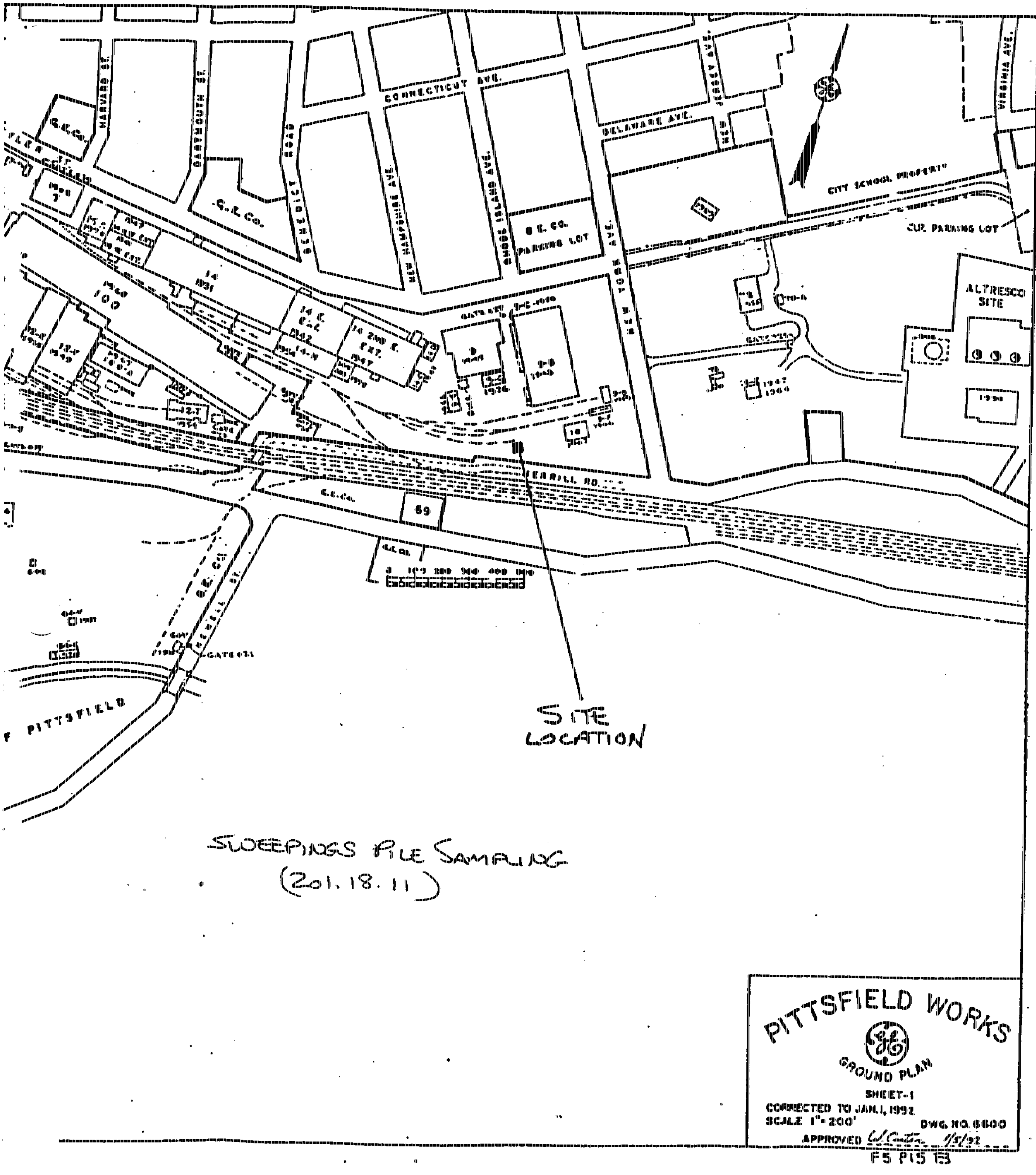
Sweepings Pile Sampling

(201.18.11)

(Table 1)

LAB ID	SAMPLE DATE	PCBs (METHOD 8080) PPM	SAMPLE LOCATION	SAMPLE MATERIAL	SAMPLE TYPE	SAMPLE DEPTH	SEE FIGURE
SPS-C1	6-14-94	1.0	1 - 3	SAND	FIELD-COMPOSITE	0 - 3'	2
SPS-C2	6-14-94	<1.	4 - 6	SAND	FIELD-COMPOSITE	0 - 3'	2
SPS-C3	6-14-94	3.5	7 - 9	SAND	FIELD-COMPOSITE	0 - 3'	2
SPS-C4	6-14-94	2.1	10 - 12	SAND	FIELD-COMPOSITE	0 - 3'	2
SPS-C5	6-14-94	3.9	13 - 16	SAND	FIELD-COMPOSITE	0 - 1'	2
SPS-C6	6-14-94	12.	17 - 18	SAND	FIELD-COMPOSITE	0 - 1'	2
SPS-C7	6-14-94	2.0	19 - 21	SAND	FIELD-COMPOSITE	0 - 1'	2

FIGURE 1


CONNECTICUT AVE.
DELAWARE AVE.
HARVARD ST.
DARTMOUTH ST.
SCHENECTADY ROAD
NEW HAMPSHIRE AVE.
RHODE ISLAND AVE.
NEW YORK AVE.
VIRGINIA AVE.
CITY SCHOOL PROPERTY
G.E. CO.
G.E. CO. PARKING LOT
ALTRESCO SITE
MERRILL RD.
69
100
PITTSFIELD
SITE LOCATION
SWEEPINGS PILE SAMPLING
(201.18.11)
PITTSFIELD WORKS
GROUND PLAN
SHEET-1
CORRECTED TO JAN. 1, 1992
SCALE 1" = 200'
DWG. NO. 6600
APPROVED
F5 P15 E3

BLASLAND, BOUCK & LEE
ENGINEERS & GEOSCIENTISTS

SUBJECT	PROJ. NO.	BY	DATE	SHEET
SWEEPINGS PILE SAMPLING	20118.11	JSN	6-14-94	1 of 1

FIGURE 2

BLDG 9

BLDG 9-B

LEGEND
(NOT TO SCALE)

- SWEEPINGS PILE
2 - FIELD COMPOSITE SAMPLE LOCATION

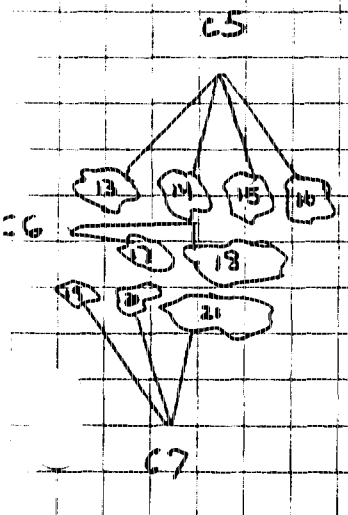
C1, C2, C3, C4 = PILE #1 APPROX 5.5 CU YDS (16'X10'X6')

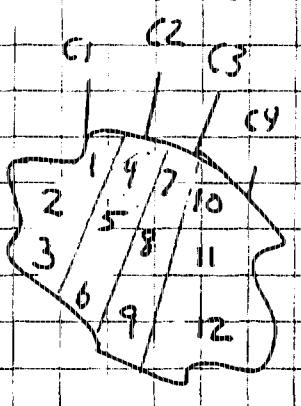
C5 = PILE #'S 2-5 APPROX 1.5 CU YDS (10'X4'X1')

C6 = PILE #'S 6+7 APPROX 1.8 CU YDS (8'X4'X1.5')

C7 = PILE #'S 8-10 APPROX 2.5 CU YDS (9'X5'X1.5')

(RAILROAD TRACKS)





NOTE:
- LOCATIONS 1,4,7,10 AND 13 THRU 21 WERE SAMPLED AT (0-1') DEPTH
- LOCATIONS 2,5,8 AND 11 WERE SAMPLED AT (1-2') DEPTH
- LOCATIONS 3,6,9 AND 12 WERE SAMPLED AT (2-3') DEPTH

BLDG 10

Attachment 1

OBG LABORATORIES, INC.

PRELIMINARY
JUN 16 1994

Laboratory Report

CLIENT BLASLAND, BOUCK & LEE, INC. JOB NO. 2887.026.520

DESCRIPTION G.E., Pittsfield BB&L Job No. 201.18.11

Sweeping Pile Sampling

Date Analyzed 6/15/94 DATE COLLECTED See Below DATE RECEIVED 6/14/94

LAB ID NO.	DATE EXTRACTED	DATE SAMPLED	SCREEN VALUE	PCTS	PCB	COMMENTS	QC RESULTS
SPS-C1	6/14/94	6/14/94	(95) <1	92	1.0	sand	A
C2			(905) <1	92	<1		
C3			3.3	93	3.5		
C4			2.0	95	2.1		
C5			3.6	93	3.9		
C6			11.2	97	12.		
C7			1.78	90	2.0		
A Reagent Blank 061494-1:					<1		
Reference Sample 061494-1:					2.2/3=73%		
Matrix Spike SPS-C4:					2.0/3=67%		
Matrix Spike Duplicate:					1.9/3=63%		
Precision:			2.0 vs 1.9 = 5.1 % RPD				

Comments:

Certification No.: NY034

Units: mg/kg (dry wt.) = ppm

Authorized:

Date:

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

Attachment 2

Blasland, Bouck & Lee, Inc.
6723 Tow Path Road, Box 66, Syracuse, New York 13214
(315) 446-9120

CHAIN OF CUSTODY RECORD

PROJECT NO.: 201-18-11
PROJECT NAME: SWEEPINGS PILE SAMPLING

LAB ID	CUSTODY TAPE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE TYPE: SOLID/SAND	SAMPLE TYPE: WIPE	SAMPLE TYPE: WATER	NO. OF CONTAINERS	PCBs (METHOD 8080)					REMARKS
SPS-C1		6-14-94	1130			X			1	X					
SPS-C2		6-14-94	1140			X			1	X					
SPS-C3		6-14-94	1150			X			1	X					
SPS-C4		6-14-94	1200			X			1	X					
SPS-C5		6-14-94	1210			X			1	X					
SPS-C6		6-14-94	1220			X			1	X					
SPS-C7		6-14-94	1230			X			1	X					

SAMPLED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	6-14-94 1230		[signature]	6-14-94 1751	
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]	6/14/94 1300	DELIVERED TO PITTSFIELD QC LAB	

APPENDIX M

USEPA REPORT ON RESIDENTIAL AIR MONITORING IN LAKEWOOD AREA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203

Report on Residential Air Monitoring for PCBs in Pittsfield, Massachusetts

Summary

At the request of the residents of Lakewood who were concerned about possible exposure to PCBs in their homes; EPA designed and implemented a sampling program to determine the airborne levels of PCBs in the homes. The data generated indicates that there are no harmful levels of PCBs in any of the homes tested. There is no reason to expect any adverse health effects in any of the residents from this potential route of exposure.

Introduction

Late in 1980 the U.S. Environmental Protection Agency was requested to assist in the evaluation of a possible environmental hazard in the Lakewood area of Pittsfield, Massachusetts. The concern that prompted this request arose over a possibility that citizens of this area were being exposed to excessive levels of Polychlorinated Biphenyls (PCBs). The potential source of these PCBs was thought to be a subsurface PCB contaminated oil plume.

Monitoring performed by both G.E. and DEQE indicated that the oil plume itself was not penetrating the neighborhood, however there was still concern that PCBs could enter by other routes.

In evaluating the existing data, EPA determined that a remaining route of exposure that had not been explored was the volatilization of PCBs into the air and the possibility that these airborne PCBs could reach unhealthful levels within homes. To investigate this possibility, EPA planned an air monitoring program for the Lakewood area. Using the information prepared by the General Electric Company, EPA determined which homes might be expected to have higher levels of PCBs. The air in these locations would then be measured using a highly sensitive sampling method. An additional home, which was clearly outside of the PCB contaminated area, was chosen to compare with the results from the suspected areas.

Description of the Monitoring Study

The EPA Region I air monitoring group conducted sampling in Pittsfield on July 7, 1981. This monitoring was aimed at measuring airborne PCBs in residential, and industrial basements where the possibility of PCBs volatilizing from the ground was in question. Sampling was conducted at the following locations:

1. 14/16 Lombard St.
2. 34 Fasce Place
3. Kelley-Dietrich Warehouse (Ease Street)
4. 53 Parside Avenue

The samples were taken at an approximate flow rate of 3.8 liters per minute for four hours. The total sample was approximately one cubic meter of air.

The sampler inlets were at average breathing height. Quality assurance included field blanks, air spike, and florisil spikes and blanks.

Results and Discussion

For simplicity, this results section does not describe the statistical approach used in designing the sampling program. This information is available from the Region I EPA Surveillance and Analysis Division, Air Section.

The measurements of PCBs at the sites measured were:

Site	PCB (Arochlor 1254) ug/M^3	Chlorodene ug/M^3
14/16 Lombard St.	0.120	0.03
34 Fasce Place	0.150	1.20
Kelley-Dietrich	ND	ND
53 Parkside Ave.	ND	22.0

ND - Not Detectable ug/M^3 - Micrograms per cubic meter

Before any conclusions can be drawn from this data a discussion is necessary. It is thought by EPA that the Kelley-Dietrich values are low because the door to the warehouse was open during the measurement, allowing free circulation of outdoor air. Also, although it was the site chosen because no PCB contamination was expected, it is likely that the reason PCBs were not detected at all at the Parkside Avenue home

was due to the high concentration of chlordane (an insecticide), which interferes with the analysis of PCBs. The clardane was used by the residents for control of ants.

In testing conducted by the EPA in homes where no extra source of PCBs was suspected, PCB levels varied between 0.050 - 0.60 ug/M^3 (1,2). The average value reported was 0.200 ug/M^3. Based on these findings, there is no indication that the PCB levels in the air in homes in Lakewood are above the normal levels found in homes without particular exposure to PCBs. It is important to note that the only reason these very low levels can be measured at all is due to the special sensitivity of the sampling method. EPA believes that the levels of PCBs in air which were found in this study do not pose a health threat to the occupants of the homes.

1) Environmental Assessment of PCBs in the Atmosphere, November 1977 EPA-450/3-77-045.

2) Sources of Emissions of Polychlorinated Biphenyls into the Ambient Atmosphere and Indoor Air, March 1979 EPA-600/4-79-022.