BECKER ELECTRONICS SITE
TOWN OF DURHAM, GREENE COUNTY, NY
SITE NO. 4-20-007

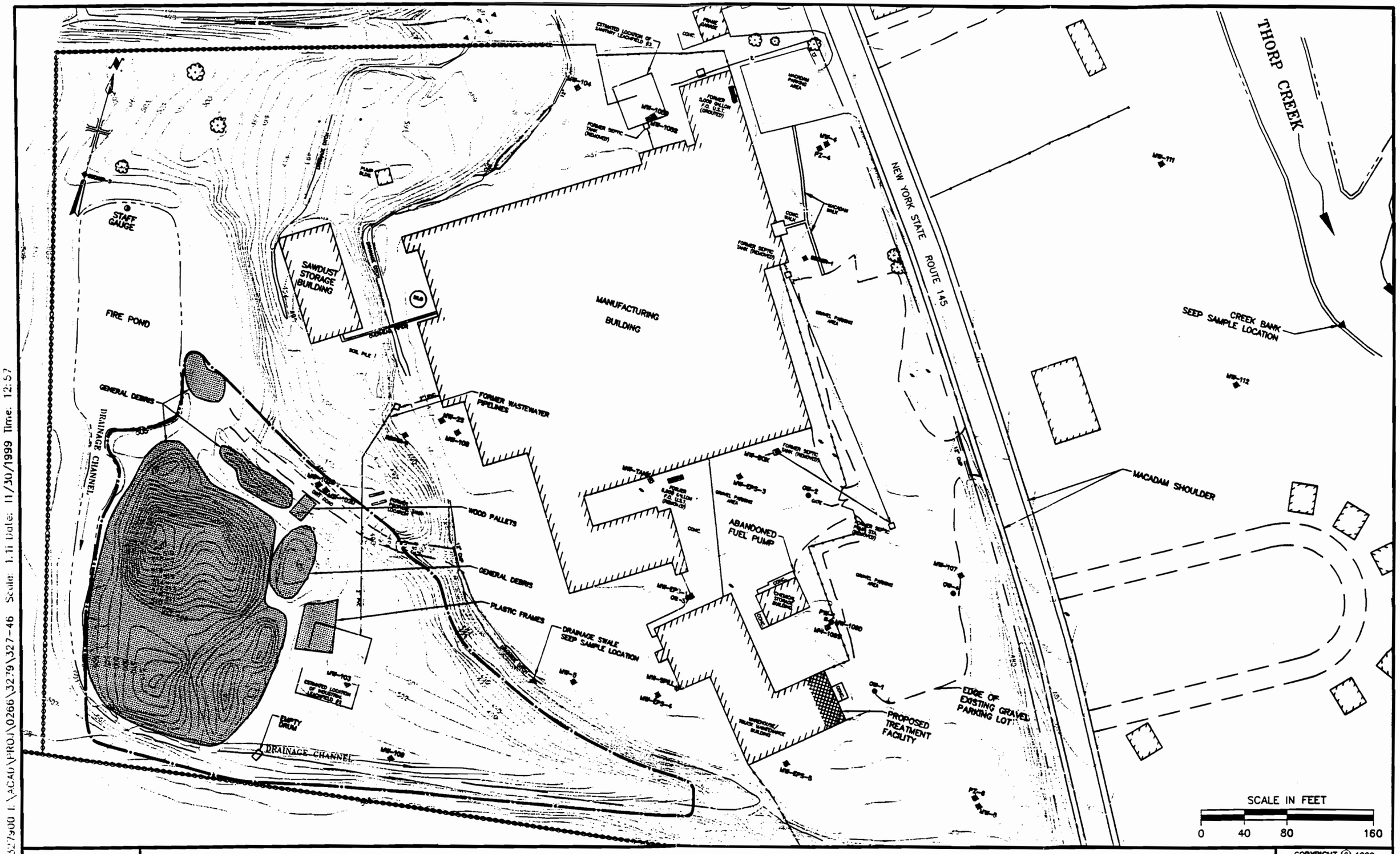
SAMPLING LOCATIONS, WELL LOGS, AND ANALYTICAL SUMMARIES

FOR INFORMATION ONLY
NOT PART OF CONTRACT DOCUMENTS

This information is not part of the contract documents for remediation at the Becker Electronics Site. The Department neither represents that the characteristics of the waste material at the site will be the same as in the attached documents nor considers the attached documents as being a comprehensive and actual listing of contaminants which may be detected. The Contractor shall be responsible for accurate and comprehensive characterization of waste materials to be properly moved, transported and disposed of.

February, 2000

WELL LOCATION PLAN AND
WELL LOGS



MALCOLM PIRNIE

BECKER ELECTRONICS SITE (# 4-20-007)
DURHAM, NEW YORK

WELL AND SEEP SAMPLING LOCATIONS

FIGURE 2-7

MALCOLM PIRNIE

TEST BORING LOG

BORING No. PW-1

PROJECT **Becker Electronics**	LOCATION **East Durham, New York**	SHEET **1** OF **4**
CLIENT		PROJECT No. **0266327**
DRILLING CONTRACTOR		MEAS. PT. ELEV.
PURPOSE **Monitoring Well Installation**		GROUND ELEV.
WELL MATERIAL		DATUM
DRILLING METHOD(S)	SAMPLE / CORE / CASING	DATE STARTED **5/15/97**
DRILL RIG TYPE **Ingersoll Rand T2W**	TYPE	DATE FINISHED **5/15/97**
GROUND WATER DEPTH '	DIA. "	DRILLER **American Auger**
MEASURING POINT	WEIGHT #	PIRNIE STAFF **Laura Clayton**
DATE OF MEASUREMENT	FALL "	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	1.5/2.0	24 38 21 21			Till- red-brn silt with fine gravel. Grades to brn silt with fine gravel. Moist	2.0		Roller Bit 9 7/8" to 19 feet.
4								
6					Brown silt w/ fine gravel. Wet	5.0		
8	0.7/2.0	4 24 28 28				7.0		
10								
12								
14								
16	?/2.0	29 34 0/50			Rock at 16 feet - siltstone, shale	16.0		
18						17.0		Competent rock at 19 feet. Rock

MALCOLM PIRNIE	TEST BORING LOG	BORING No. PW-1
PROJECT Becker Electronics	LOCATION East Durham, New York	SHEET 2 OF 4
CLIENT		PROJECT No. 0266327

DEPTH FT	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
22								socket drilled 6.0 feet into competent rock to 21.0 feet. Air hammer 8" open rock hole from 19.0 to 25. 8 " temporary pvc riser from 25' to ground surface. 6 " schedule 5 steel casing w/ pvc end cap inside temp. casing
						23.0		
24								
						25.0		Ream open rock hole below pvc from 25 ' to 84.6 feet using a 6 " air hammer.
26								
28								
)								
2								
4								
6								
38								
40								
42					Rock - gray	42.0		
						43.0		
44					Rock - red/brown shale	45.0		

MALCOLM PIRNIE	TEST BORING LOG	BORING No. PW-1
PROJECT Becker Electronics	LOCATION East Durham, New York	SHEET 3 OF 4
CLIENT		PROJECT No. 0266327

...TH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
						46.0		
48								
50					Rock - grey shale	50.0		
						51.0		
52								
54								
6								
8					Rock - red-brown	58.0		
0						60.0		
2								
64								
					Rock - red-brown	65.0		
66						66.0		
68								
70								

MALCOLM PIRNIE	TEST BORING LOG	BORING No. PW-1
PROJECT **Becker Electronics**	LOCATION **East Durham, New York**	SHEET **4** OF **4**
CLIENT		PROJECT No. **0266327**

...TH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
					Rock - gray	72.0		
						73.0		
74								
76								
78								
°0								
2								
					Rock - gray	83.0		
4						84.0		84.6

MALCOLM PIRNIE — TEST BORING LOG — BORING No. OW-1

PROJECT **Becker Electronics**	LOCATION **East Durham, New York**		SHEET **1** OF **3**
CLIENT			PROJECT No. **0266327**
DRILLING CONTRACTOR			MEAS. PT. ELEV.
PURPOSE **Monitoring Well Installation**			GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)		SAMPLE / CORE / CASING	DATE STARTED **5/15/97**
DRILL RIG TYPE **Ingersoll Rand T2W**	TYPE		DATE FINISHED **5/15/97**
GROUND WATER DEPTH '	DIA.	"	DRILLER **American Auger**
MEASURING POINT	WEIGHT	#	PIRNIE STAFF **Laura Clayton**
DATE OF MEASUREMENT	FALL	"	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	0.6/2.0	27 50/0.4			Till- red-brn silt with fine gravel. Grades to brn silt with medium to coarse gray gravel. Trace organics. Moist	2.0		Roller Bit 9 7/8" to 19.0 feet.
4								
6	0.65/2.0	50 6 50/0.3			Till- moist brown silt with fine gravel. Rock fragments in bottom of spoon.	5.0		
8					Boulder	7.0		
10								
12	1.7/2.0	16 18 23 25			Till- very wet brn silt w/ fine, medium, and coarse gravel. Trace clay. Large cobbles.	11.0		
14						13.0		
16					Rock - Gray siltstone, shale	16.0		Competent rock at 15 feet. Rock socket drilled 4.0 feet into competent rock to 19 feet.
18								Air hammer 6" open rock hole from

MALCOLM PIRNIE	TEST BORING LOG	BORING No. OW-1
PROJECT **Becker Electronics**	LOCATION **East Durham, New York**	SHEET **2** OF **3**
CLIENT		PROJECT No. **0266327**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
								19.0 to 23.0 feet. 4 " pvc riser from 23' to ground surface.
					Rock - red-brown siltstone, shale.	21.0	21.0	
22							23.0	
						23.0		Ream open rock hole below pvc from 23 ' to 68.0 feet using a 4" air hammer.
24						24.0		
						25.0		
26								
28								
30								
32								
34					Rock - red-brown siltstone, shale.	34.0		
						35.0		
36								
38								
40								
42								
					Rock - grey shale	43.0		
44								
						45.0		

MALCOLM PIRNIE	TEST BORING LOG	BORING No. OW-1
PROJECT **Becker Electronics**	LOCATION **East Durham, New York**	SHEET 3 OF 3
CLIENT		PROJECT No. **0266327**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
48					Rock - grey shale	47.0		
50						49.0		
52								
54								
6					Rock - grey shale	55.0		
						56.0		
8					Rock - red-brown	58.0		
0						59.0		
2								
64								
66								
68							68.0	
						68.0		Open hole rock well 23' to 68.0 feet.

MALCOLM PIRNIE

TEST BORING LOG

BORING No. OW-2

PROJECT **Becker Electronics**	LOCATION **East Durham, New York**			SHEET **1** OF **3**
CLIENT				PROJECT No. **0266327**
DRILLING CONTRACTOR				MEAS. PT. ELEV.
PURPOSE **Monitoring Well Installation**				GROUND ELEV.
WELL MATERIAL				DATUM
DRILLING METHOD(S)		SAMPLE	CORE / CASING	DATE STARTED **5/14/97**
DRILL RIG TYPE **Ingersoll Rand T2W**	TYPE			DATE FINISHED **5/14/97**
GROUND WATER DEPTH '	DIA.	"		DRILLER **American Auger**
MEASURING POINT	WEIGHT	#		PIRNIE STAFF **Laura Clayton**
DATE OF MEASUREMENT	FALL	"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	1.3/2.0	27 16 23 36			Till- red-brn silt with fine gravel. Grades to brn silt with medium to coarse gray gravel. Moist	2.0		Roller Bit 9 7/8" to 17.5 feet.
4								
6	0.7/2.0	7 19 26 50/0.2			As above. Wet	5.0		
					Gray gravel and silt in cuttings	7.0		
8						8.0		
10								
12	?/2.0	28 50/0			Till- very wet brn silt w/ fine, medium, and coarse gravel. Trace clay. Large cobbles.	11.0 12.0		
14					Rock - Gray siltstone, shale	14.0		Competent rock at 14 feet. Rock socket drilled 3.5 feet into competent rock to 17.5 foot.
16						15.0		
18								Roller bit 6" open rock hole from 17.5 to 45. 4 " pvc riser from 45' to ground surface.

MALCOLM PIRNIE

TEST BORING LOG

BORING No. OW-2

PROJECT **Becker Electronics** | LOCATION **East Durham, New York** | SHEET **2** OF **3**

CLIENT | PROJECT No. **0266327**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					Rock - red-brown siltstone, shale.			
						21.0		
22								
24								
26								
28								
30					Rock - red-brown siltstone, shale.	30.0		
						31.0		
32								
34								
36								
38								
40					Rock - red-brown siltstone, shale.	40.0		
						41.0		
42								
								43.0
44								
								45.0
								Ream open rock hole below pvc

MALCOLM PIRNIE

TEST BORING LOG

BORING No. OW-2

PROJECT **Becker Electronics** | LOCATION **East Durham, New York** | SHEET 3 OF 3

CLIENT | PROJECT No. **0266327**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
								from 45 ' to 68.2 feet using a 3 7/8" roller bit.
48								
50					Rock - red-brown siltstone, shale.	50.0		
						51.0		
52								
54								
					Rock - grey shale	55.0		
56						56.0		
58					Rock - red-brown	58.0		
30						60.0		
62								
64								
					Rock - red-brown	65.0		
66						66.0		
68							68.2	Open hole rock well 45 to 68.2 feet.

MALCOLM PIRNIE

TEST BORING LOG

BORING No. OW-3

PROJECT	Becker Electronics	LOCATION	East Durham, New York	SHEET 1 OF 3
CLIENT				PROJECT No. 0266327
DRILLING CONTRACTOR				MEAS. PT. ELEV.
PURPOSE	Monitoring Well Installation			GROUND ELEV.
WELL MATERIAL				DATUM
DRILLING METHOD(S)		SAMPLE	CORE / CASING	DATE STARTED 5/14/97
DRILL RIG TYPE	Ingersoll Rand T2W	TYPE		DATE FINISHED 5/14/97
GROUND WATER DEPTH	'	DIA.	"	DRILLER American Auger
MEASURING POINT		WEIGHT	#	PIRNIE STAFF Laura Clayton
DATE OF MEASUREMENT		FALL	"	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	1.2/2.0	6 18 24 24			Till- red-brn silt with fine gravel. Grades to brn silt with fine gravel. Moist	2.0		Roller Bit 9 7/8" to 17 feet.
4								
6	0.7/2.0	19 23 27 18			Brown silt w/ fine gravel. Wet	5.0		
						7.0		
8					Rock at 8 feet - siltstone, shale	8.0		
						9.0		
10								
12								Competent rock at 12 feet. Rock socket drilled into competent rock to 17 foot.
14								
16								
18								Air hammer 6" open rock hole from 17.0 to 45. 4 " pvc riser from 45' to ground surface.

MALCOLM PIRNIE	TEST BORING LOG	BORING No. OW-3
PROJECT **Becker Electronics**	LOCATION **East Durham, New York**	SHEET **2** OF **3**
CLIENT		PROJECT No. **0266327**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
22								
24								
26								
28								
30					Rock - gray shale.	30.0		
						31.0		
32								
34								
36								
38								
40								
42								
								43.0
44								
								45.0
					Rock - grey shale	45.0		Ream open rock hole below pvc

MALCOLM PIRNIE	TEST BORING LOG	BORING No. OW-3
PROJECT Becker Electronics	LOCATION East Durham, New York	SHEET 3 OF 3
CLIENT		PROJECT No. 0266327

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
						46.0		from 45 ' to 67.8 feet using a 3 7/8" roller bit.
48								
50								
52								
54								
					Rock - grey shale	55.0		
56						56.0		
58					Rock - red-brown	58.0		
60						60.0		
62								
64								
					Rock - red-brown	65.0		
66						66.0		
						67.8		Open hole rock well 45 to 67.8 feet.

MALCOLM PIRNIE

TEST BORING LOG

BORING No. OW-4

PROJECT **Becker Electronics**	LOCATION **East Durham, New York**	SHEET 1 OF 3	
CLIENT		PROJECT No. **0266327**	
DRILLING CONTRACTOR **American Auger and Ditch**		MEAS. PT. ELEV.	
PURPOSE **Monitoring Well Installation**		GROUND ELEV.	
WELL MATERIAL		DATUM	
DRILLING METHOD(S)	SAMPLE / CORE / CASING	DATE STARTED **5/15/97**	
DRILL RIG TYPE **Ingersoll Rand T2W**	TYPE	DATE FINISHED **5/15/97**	
GROUND WATER DEPTH '	DIA. "	DRILLER **American Auger**	
MEASURING POINT	WEIGHT #	PIRNIE STAFF **Laura Clayton**	
DATE OF MEASUREMENT	FALL "		

DEPTH IN FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	0.6/2.0	10 6 5 4			Till- red-brn silt with fine gravel. Grades to brn silt with fine gravel. Moist	2.0		Roller Bit 9 7/8" to 15 feet.
6	0.65/2.0	23 11 5 5			Brown silt w/ fine gravel. Wet	5.0		
						7.0		
12	?/2.0	14 9 9 11						
					Rock at 13 feet - siltstone, shale	13.0		
						14.0		Competent rock at 15 feet. Rock socket drilled 6.0f eet into competent rock to 21.0 feet. Air hammer 6" open rock hole from 21.0 to 45. 4 " pvc riser from 45' to ground surface.

MALCOLM PIRNIE

TEST BORING LOG

BORING No. OW-4

PROJECT **Becker Electronics** | LOCATION **East Durham, New York** | SHEET **2** OF **3**

CLIENT | PROJECT No. **0266327**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
					Rock - grey shale	45.0	43.0 / 45.0	Ream open rock hole below pvc

MALCOLM PIRNIE

TEST BORING LOG

BORING No. OW-4

PROJECT **Becker Electronics** | LOCATION **East Durham, New York** | SHEET **3** OF **3**

CLIENT | PROJECT No. **0266327**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
						46.0		from 45 ' to 68.1 feet using a 3 7/8" roller bit.
48								
50								
52								
54								
56								
58					Rock - red-brown	58.0		
60						60.0		
62								
64								
66					Rock - red-brown	65.0		
						66.0		
68						68.0	68.1	Open hole rock well 45 to 68.1 feet.

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

TABLE 2-2
BECKER ELECTRONICS SITE
GROUNDWATER ANALYTICAL RESULTS - 1997-1998 SAMPLING ROUNDS

Sample Site	New York State	Becker	Becker	Becker	Becker	Becker	Becker	Becker	Becker
Sample Location	DEC	MW-5	PZ-6	MW-6	MW-106S	MW-106D	MW-106D	MW-106D	MW-108
Matrix	Criteria	Water	Water	Water	Water	Water	Water	Water (DEC)	Water
Date Sampled		06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/08/1998	09/16/1997	06/08/1998
Units	Concentration (ug/L)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
PARAMETER									
Chloromethane	NA	ND	ND	ND	ND	ND	ND	N/A	ND
Bromomethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	[redacted]	ND
Chloroethane	5	ND	ND	ND	ND	[redacted]	ND	[redacted]	ND
Methylene Chloride	NA	97 JBD	2 JB	19 JBD	210 JBD	140 JBD	29 J	670 D	ND
Acetone	NA	ND	ND	ND	ND	ND	ND	ND	90
Carbon Disulfide	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	[redacted]	ND	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	2 J
1,1-Dichloroethane	5	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
1,2-Dichloroethene (total)	5	ND	ND	ND	ND	[redacted]	[redacted]	[redacted]	ND
Chloroform	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	230 D	11
1,1,1-Trichloroethane	5	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Carbon Tetrachloride	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	[redacted]	[redacted]	[redacted]	ND
Dibromochloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	NA	110 JD	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	NA	53 JD	ND	ND	ND	ND	6 J	200 D	ND
Chlorobenzene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1. N/A indicates that there is no NYSDEC criteria for this compound.

TABLE 2-2
BECKER ELECTRONICS SITE
GROUNDWATER ANALYTICAL RESULTS - 1997-1998 SAMPLING ROUNDS

Sample Site	New York State	Becker	Becker	Becker	Becker	Becker	Becker	Becker	Becker
Sample Location	DEC	MW-109	MW-OW1	MW-OW2	MW-OW3	MW-OW4	MW-107	PW-1	PW-1 (20-40)
Matrix	Criteria	Water	Water	Water	Water	Water	Water	Water	Water
Date Sampled		06/08/1998	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/08/1998
Units	Concentration (ug/L)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
PARAMETER									
Chloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND		ND	ND	ND	ND	ND
Chloroethane	5	ND			ND	ND	ND	ND	ND
Methylene Chloride	NA	ND	170 JBD	35 JBD	83 JBD	180 JBD	2 JB	8800 BD	3800 J
Acetone	NA	81	ND	ND	39 JD	94 JD	ND	5000 D	ND
Carbon Disulfide	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	2 J					4 J		
1,1-Dichloroethane	5								
1,2-Dichloroethene (total)	5	ND			ND				
Chloroform	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND		ND	ND	ND	ND	ND
2-Butanone	50	10	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane	5								
Carbon Tetrachloride	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND							
Dibromochloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	NA	ND	ND	ND	ND	ND	ND	1200 JD	ND
2-Hexanone	NA	2 J	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND		ND	ND	1 J	ND	ND
1,1,2,2-Tetrachloroethane	NA	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	NA	ND	ND	ND	ND	ND	ND	4900 JD	2700 J
Chlorobenzene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NA	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
1. N/A indicates that there is no NYSDEC criteria for this compound

TABLE 2-2
BECKER ELECTRONICS SITE
GROUNDWATER ANALYTICAL RESULTS - 1997-1998 SAMPLING ROUNDS

Sample Site Sample Location Matrix Date Sampled Units	New York State DEC Criteria Concentration (ug/L)	Becker PW-1 (40-60) Water 06/08/1998 ug/l	Becker PW-1 (60-80) Water 06/08/1998 ug/l	Becker PW-1 (COMP) Water 06/08/1998 ug/l	Becker PW1#3 Water (DEC) 09/16/1997 ug/l	Becker DUP OF PW-1 Water 06/27/1997 ug/l
PARAMETER						
Chloromethane	NA	ND	ND	ND	N/A	ND
Bromomethane	NA	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND		ND
Chloroethane	5	ND	ND	ND		ND
Methylene Chloride	NA	4700 JB	5300 B	4100 JB	7300 D	8700 BD
Acetone	NA	ND	ND	ND	4500 D	3800 JD
Carbon Disulfide	NA	ND	ND	ND	ND	ND
1,1-Dichloroethene	5					
1,1-Dichloroethane	5					
1,2-Dichloroethene (total)	5					
Chloroform	NA	ND	ND	ND	22 JD	ND
1,2-Dichloroethane	5	ND	ND	ND		ND
2-Butanone	50					
1,1,1-Trichloroethane	5					
Carbon Tetrachloride	NA	ND	ND	ND	ND	ND
Bromodichloromethane	NA	ND	ND	ND	ND	ND
1,2-Dichloropropane	NA	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND
Trichloroethene	5					
Dibromochloromethane	NA	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NA	ND	ND	ND	58 D	ND
Benzene	NA	ND	ND	ND	12 JD	ND
trans-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND
Bromoform	NA	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	NA	ND	ND	ND	1300 D	1200 JD
2-Hexanone	NA	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND		ND
1,1,2,2-Tetrachloroethane	NA	ND	ND	ND	ND	ND
Toluene	NA	2900 J	2600 J	2200 J	4600 D	4900 JD
Chlorobenzene	NA	ND	ND	ND	ND	ND
Ethylbenzene	NA	ND	ND	ND	ND	ND
Styrene	NA	ND	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND		ND

Notes:
1. N/A indicates that there is no NYSDEC criteria for this compound

..:OUN ER SA IG RE 3 - BE ELEC ICS

Sample Site	New York State	Becker	Becker	Becker	Becker	Becker	Becker	Becker	Becker	Becker	Becker	Becker	Becker
Sample Location	DEC	MW-5	PZ-6	MW-6	MW-106S	MW-106D	MW-OW1	MW-OW2	MW-OW3	MW-OW4	MW-107	PW-1	DUP OF PW-1
Matrix	Criteria	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Date Sampled		06/27/1997	06/27/1997	06/27/1997	06/27/1998	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/27/1997	06/27/1997
Units	Concentration (ug/L)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
PARAMETER													
Aluminum	NA	564	172 B	260	13100	442	157 B	144 B	127 B	158 B	418	2520	2410
Antimony	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	NA	ND	ND	ND	4.8 B	100	ND	24.8	ND	ND	ND	5.2 B	ND
Barium	NA	349	89.1 B	209	440	1780	123 B	546	594	129 B	91.3 B	439	456
Beryllium	NA	0.22 B	ND	ND	0.90 B	ND	ND	ND	0.59 B	ND	ND	0.27 B	0.26 B
Cadmium	NA	ND	ND	ND	ND	ND	ND	ND	0.80 B	ND	0.69 B	ND	ND
Calcium	NA	64500	27300	29700	90800	80900	42500	85200	67500	14900	34400	120000	124000
Chromium	NA	ND	ND	ND	20.4	ND	ND	ND	ND	ND	ND	16.3	11.6
Cobalt	NA	ND	ND	ND	15.6 B	2.9 B	ND	ND	ND	ND	1.9 B	4.6 B	3.9 B
Copper	NA	3.9 B	3.6 B	1.8 B	25	2.4 B	2.4 B	1.7 B	1.7 B	3.1 B	4.9 B	6.7 B	5.3 B
Iron	NA	729	192	119	26100	5540	151	367	327	235	682	4810	4650
Lead	NA	ND	ND	ND	8.7	ND	ND	ND	ND	ND	ND	1.9 B	ND
Magnesium	NA	10500	4070 B	6340	13800	14600	5110	14000	11200	2280 B	4040 B	17600	18100
Manganese	NA	184	3120	75.5	1230	1380	291	299	227	799	13900	4720	4970
Mercury	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	NA	3.6 B	8.0 B	ND	38.9 B	3.1 B	4.0 B	4.3 B	ND	4.7 B	5.6 B	19.8 B	16.6 B
Potassium	NA	1680 B	1280 B	3950	3030 B	1010 B	1300 B	4020 B	12100	33200	2150 B	4350 B	3960 B
Selenium	NA	ND	ND	ND	ND	ND	ND	ND	4.3 B	ND	ND	ND	ND
Silver	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	NA	10600	6600	21300	8430	9970	10500	12900	19900	20900	6320	17400	16200
Thallium	NA	ND	8.5 B	ND	8.1 B	ND	ND	ND	ND	ND	36	14.1	12.9
Vanadium	NA	ND	ND	1.6 B	18.8 B	ND	ND	ND	ND	ND	ND	3.5 B	2.7 B
Zinc	NA	12.6 B	8.2 B	2.7 B	90.2	5.5 B	5.4 B	4.5 B	3.5 B	4.4 B	9.5 B	23.4	19.5 B

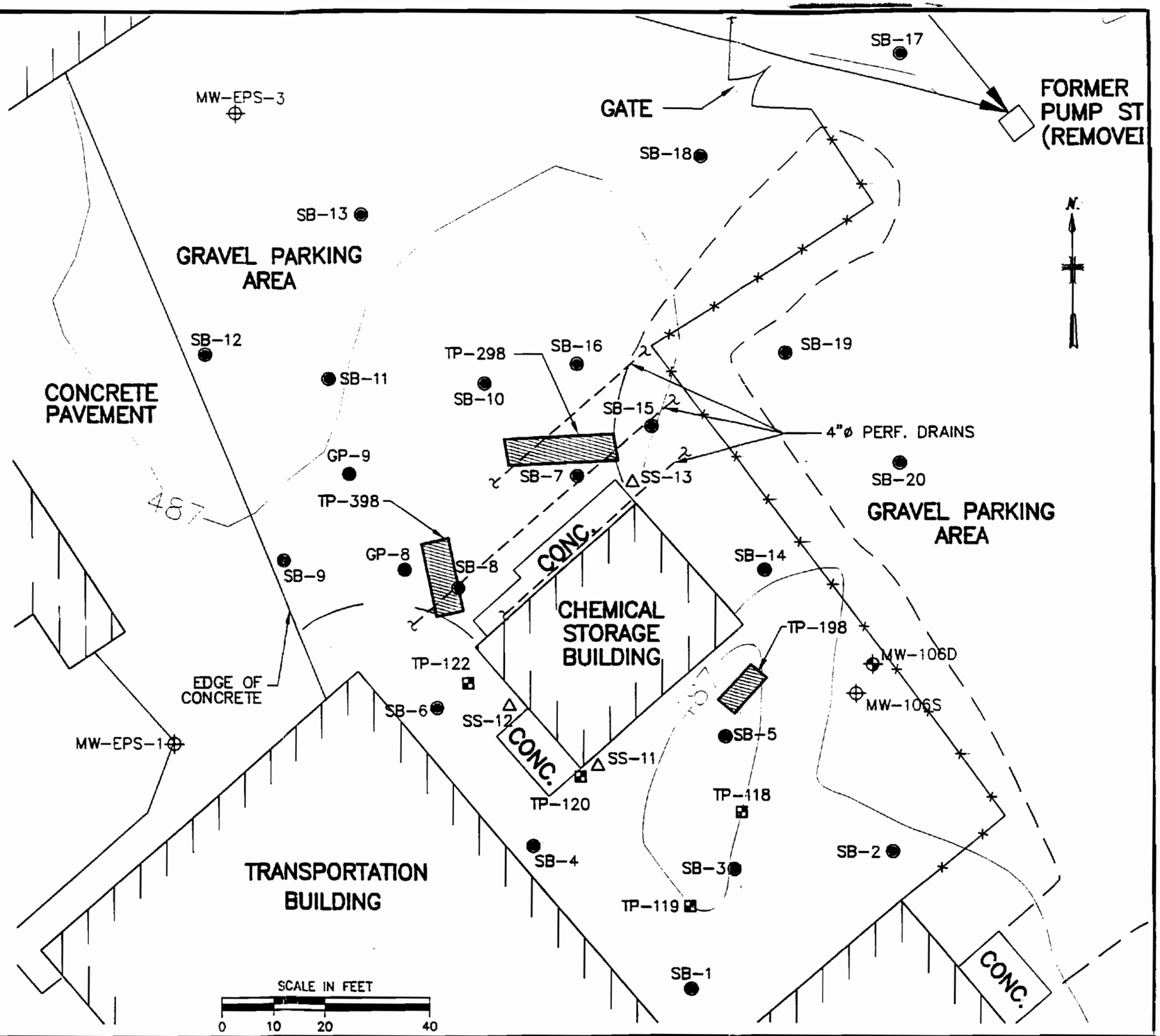
TABLE 2-3
BECKER ELECTRONICS SITE
GROUNDWATER SEEPS ANALYTICAL RESULTS

Sample Site:	Becker	Becker
Sample Location:	Creek Seep	Swale Seep
Matrix:	Water	Water
Date Sampled:	06/08/1998	06/08/1998
Units:	ug/l	ug/l
PARAMETER		
Chloromethane	10U	10U
Bromomethane	10U	10U
Vinyl Chloride	10U	10U
Chloroethane	10U	10U
Methylene Chloride	3JB	10U
Acetone	10U	10U
Carbon Disulfide	10U	10U
1,1-Dichloroethene	10U	10U
1,1-Dichloroethane	2J	10U
1,2-Dichloroethene (total)	10U	10U
Chloroform	10U	10U
1,2-Dichloroethene (total)	1J	10U
2-Butanone	10U	10U
1,1,1-Trichloroethane	9J	10U
Carbon Tetrachloride	10U	10U
Bromodichloromethane	10U	10U
1,2-Dichloropropane	10U	10U
cis-1,3-Dichloropropene	10U	10U
Trichloroethene	4J	10U
Dibromochloromethane	10U	10U
1,1,2-Trichloroethane	10U	10U
Benzene	10U	10U
trans-1,3-Dichloropropene	10U	10U
Bromoform	10U	10U
4-Methyl-2-Pentanone	10U	10U
2-Hexanone	10U	10U
Tetrachloroethene	10U	10U
1,1,2,2-Tetrachloroethane	10U	10U
Toluene	10U	10U
Chlorobenzene	10U	10U
Ethylbenzene	10U	10U
Styrene	10U	10U
Xylene (total)	10U	10U

SOIL SAMPLING LOCATIONS
AND ANALYTICAL RESULTS

LEGEND

- MW — BEDROCK MONITORING WELL
- MW — OVERBURDEN MONITORING WELL
- PZ — PIEZOMETER
- SB-11 — APPROX. LOCATION OF SOIL BORING
- TEST PITS – MAY 1998
- SS-12 — SURFACE SAMPLES – NOVEMBER 1990
- TP-122 — TEST PITS – JULY 1994
- GP-8 — GEOPROBE SAMPLES – AUGUST 1994



3705 0266327900 I:\ACAD\PROJ\0266\3279\327-45 Scale: 1:1 Date: 11/09/1999 Time: 09:10

MALCOLM PIRNIE

BECKER ELECTRONICS
DURHAM, NEW YORK

SOIL SAMPLING LOCATIONS

FIGURE 2-1

TABLE 2-1
BECKER ELECTRONICS
EAST DURHAM, NEW YORK
SOIL ANALYTICAL RESULTS

COMPOUND	UNIT	NYSDEC Target Cleanup	SB-1(2-4')	SB-2(10-12')	SB-3(9-11')	SB-4(10-12')	SB-5(15-17')	SB-6(14-16')	SB-7(15-17')	SB-8(12-14')	SB-9(4-6')	SB-10(13-15')	SB-11(12-14')
Chloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/kg	--	4 J	ND	ND	5 J	1400 BD	6 J	730 J	1700 JBD	ND	660 J	ND
Acetone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/kg	280	ND	ND	ND	ND	[illegible]	ND	ND	ND	ND	ND	5 J
1,1-Dichloroethane	ug/kg	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/kg	210	ND	ND	ND	ND	[illegible]	ND	[illegible]	[illegible]	ND	[illegible]	ND
1,1,1-Trichloroethane	ug/kg	560	ND	ND	ND	ND	[illegible]	ND	ND	[illegible]	ND	ND	4 J
Carbon Tetrachloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/kg	500	ND	ND	ND	ND	ND	ND	[illegible]	ND	14	250 J	ND
Dibromochloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	1050	ND	ND	ND	ND	ND	ND	ND	830 JD	3 J	190 J	2 J
Chlorobenzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	3850	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ug/kg	840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

HEADSPACE READINGS													
Maximum	ppm		--	2.5	2.5	4.5	1.5	92	1.75	200	164	20	35
Minimum	ppm		--	2	2	2.5	1	1.5	0.75	2	2.75	1.5	1
Sample	ppm		--	2.5	2	4.5	1.25	92	--	200	--	6.5	35

Shading indicates exceedance of the NYSDEC Criteria.
-- indicates not applicable

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TABLE 2-1
BECKER ELECTRONICS
EAST DURHAM, NEW YORK
SOIL ANALYTICAL RESULTS

COMPOUND	UNIT	NYSDEC Target Cleanup	SB-12(8-10')	SB-13(4-6')	SB-14(14-16'	SB-15(14-16')	DUPLICATE SB-15	SB-16(12-14')	SB-17(10-12')	SB-18(12-14')	SB-19(14-16')	SB-20(6-8')	TP198-3'
Chloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/kg	--	3 J	ND	ND	1200 JBD	1200 JBD	3 J	5 JB	5 JB	5 JB	8 JB	4J
Acetone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/kg	280	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/kg	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/kg	210	ND	ND	19	[redacted]	[redacted]	7 J	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ug/kg	560	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/kg	500	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND
Dibromochloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ug/kg	--	ND	ND	ND	5 J	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	1050	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	3850	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ug/kg	840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

HEADSPACE READINGS													
Maximum	ppm		10.5	2.5	2	17	55	55	42	1.5	1.6	4	3.2
Minimum	ppm		1.5	1.5	1.5	1.5	2.5	2.5	2	0.5	0.6	1.8	1.6
Sample	ppm		9.5	1.5	2	17	55	55	42	1.5	1.4	4	3.2

Shading indicates exceedance of the NYSDEC Criteria.
-- indicates not applicable

TABLE 2-1
BECKER ELECTRONICS
EAST DURHAM, NEW YORK
SOIL ANALYTICAL RESULTS

COMPOUND	UNIT	NYSDEC Target Cleanup	TP198-6'	TP198-9'	TP198-12.5'	TP198-13.5'	TP298-2'	TP298-3'	TP298-6'	TP298-9'	TP298-13.5'	TP298-15'	TP298-16'	TP398-3'
Chloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/kg	--	7J	5J	2J	6J	7J	5J	4J	8J	11J	ND	ND	ND
Acetone	ug/kg	--	ND	ND	ND	ND	ND	3J	ND	ND	7J	ND	480 DJB	ND
Carbon Disulfide	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/kg	280	ND	2J	ND	ND	2J	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/kg	140	ND	ND	ND	ND	9J	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND
Chloroform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ug/kg	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	[redacted]		
1,1,1-Trichloroethane	ug/kg	560	ND	6J	ND	ND	92	ND	ND	ND	ND	ND	ND	230 J
Carbon Tetrachloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/kg	500	ND	3J	ND	ND	3J	ND	ND	2J	5J	ND	ND	ND
Dibromochloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/kg	--	ND	ND	ND	ND	4J	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	1050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/kg	3850	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ug/kg	840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2-1
BECKER ELECTRONICS
EAST DURHAM, NEW YORK
SOIL ANALYTICAL RESULTS

COMPOUND	UNIT	NYSDEC Target Cleanup	TP398-6'	TP398-9'	TP398-11'	TP398-FF(11')	TP - 118(6')*	TP - 119(1')*	TP - 120(1')*	TP - 122 DUP(2')	TP - 122(2')	GP - 8(6')	GP - 9(4')	SS - 11(0-6")	SS - 12(0-6")
Chloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Bromomethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Vinyl Chloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Chloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Methylene Chloride	ug/kg	--	580 DJ	2 J	450 DJ	1200 DJ	11 BJ	70000 BJD	15 B	900 BJ	2400 BJD	14000 BD	31 B	*	*
Acetone	ug/kg	--	1700 DJB	ND	880 DJ	920 DJ	4 BJ	120000 BJD	5 BJ	1100 BJ	3300 BD	11000 BJD	10 BJ	*	*
Carbon Disulfide	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
1,1-Dichloroethene	ug/kg	280	800 DJ	ND	[redacted]	[redacted]	ND	ND	ND	ND	ND	ND	ND	*	*
1,1-Dichloroethane	ug/kg	140	[redacted]	ND	[redacted]	[redacted]	ND	ND	ND	ND	ND	ND	ND	*	*
1,2-Dichloroethene (total)	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	*	*
Chloroform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
1,2-Dichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
2-Butanone	ug/kg	210	ND	32	[redacted]	[redacted]	ND	ND	ND	[redacted]	ND	[redacted]	ND	*	*
1,1,1-Trichloroethane	ug/kg	560	[redacted]	3 J	[redacted]	[redacted]	2 J	ND	180	[redacted]	[redacted]	[redacted]	ND	[redacted]	14
Carbon Tetrachloride	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Bromodichloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
1,2-Dichloropropane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
cis-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Trichloroethene	ug/kg	500	ND	ND	ND	170 DJ	ND	ND	6 J	[redacted]	[redacted]	ND	43	22	*
Dibromochloromethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
1,1,2-Trichloroethane	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Benzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
trans-1,3-Dichloropropene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Bromoform	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
4-Methyl-2-Pentanone	ug/kg	--	ND	6 J	370 DJ	420 DJ	ND	ND	ND	ND	ND	ND	ND	*	*
2-Hexanone	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Tetrachloroethene	ug/kg	--	ND	ND	ND	ND	ND	ND	3 J	ND	700 JD	ND	ND	*	*
1,1,2,2-Tetrachloroethane	ug/kg	--	ND	88	ND	ND	4 J	ND	ND	ND	ND	ND	ND	*	*
Toluene	ug/kg	1050	[redacted]	ND	[redacted]	[redacted]	6 J	[redacted]	29	170 J	[redacted]	[redacted]	ND	27	*
Chlorobenzene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Ethylbenzene	ug/kg	3850	ND	2 J	ND	ND	1 J	[redacted]	5 J	ND	610 JD	ND	ND	*	*
Styrene	ug/kg	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
Xylene (total)	ug/kg	840	ND	11 J	ND	ND	8 J	[redacted]	29	ND	[redacted]	ND	ND	*	*

SOIL BORING LOGS

MALCOLM PIRNIE

TEST BORING LOG

BORING No. SB-1

PROJECT	BECKER ELECTRONICS	LOCATION East Durham, NY	SHEET 1 OF 1
CLIENT	NYSDEC		PROJECT No. 0266327
DRILLING CONTRACTOR	American Auger		MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.3
WELL MATERIAL			DATUM
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE / CORE / CASING	DATE STARTED 5/12/97
DRILL RIG TYPE		TYPE: SS	DATE FINISHED 5/12/97
GROUND WATER DEPTH		DIA.: 2"	DRILLER J. Pietruch
MEASURING POINT	ground	WEIGHT: 140 #	PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL: 30"	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		8			top 0.4' med red-brn $ w/ fmcG (mostly c)			
		7	1.75					wet
		10			bottom 0.4' med brn $ w/ fG			headspace = 2.5
		8						
2		9			med brn $ w/ trace Cy$, trace fG, trace vfS			
		10	4.5					wet
		13						headspace = 2.5
		18	1.75					
4		9			dense brn $ w/ fmcG, few red-gray and gray cobbles			
		13	1.75					moist
		13						headspace = 2.5
		16						
6		8			as above (4-6')			
		46	1.75					
		34						headspace = 2.5
		53						
8		53			top 0.2' brn $ and fG, wet			
		50/0.1			bottom 0.2' gray siltstone			
								headspace = 2.5
10		59	2.25		10.0-10.3' brn $ w/ fmcG			
		51	1.75		10.3-10.6' mcG and trace brn $			
		50/0.3			10.6-11.2' fmcG w/ less dry brn $, dense, dry, hard			headspace = 2.5
12		38			top few inches v moist brn $ w/ fmG			
		40	1.75		rest is dry, lg. cobbles, fmcG, trace brn $			
		38						
		45						
14		17			dense dry brn $ w/ fmG			
		42	1.75					
		48						headspace = 2.0
		40						
16		100/0.6			piece of rock			
18						18.0		auger refusal at 18.0'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-2

PROJECT: BECKER ELECTRONICS	LOCATION: East Durham, NY		SHEET 1 OF 1
CLIENT: NYSDEC			PROJECT No. 0266327
DRILLING CONTRACTOR: American Auger			MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.1
WELL MATERIAL			DATUM
DRILLING METHOD(S): 3 1/4" HSA	SAMPLE	CORE	CASING
DRILL RIG TYPE	TYPE: SS		DATE STARTED 5/12/97
GROUND WATER DEPTH	DIA.: 2"		DATE FINISHED 5/12/97
MEASURING POINT: ground	WEIGHT: 140 #		DRILLER: J. Pietruch
DATE OF MEASUREMENT	FALL: 30"		PIRNIE STAFF: LAC

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION (KEY - Color, Major, Minor Moisture, Etc.)	ELEV. / DEPTH	WELL Constr.	REMARKS
		4			top 0.5' red-brn $ w/ fmcG and cobbles			
		8	1.25		bottom 0.5' brn $ w/ fmcG, trace organics			moist
		7						headspace = 2.0
		8						
2		9			brn $ w/ fmG - v moist			
		11						
		17	2.5					headspace = 2.5
		22						
4		20			as above but w/ several cobbles			
		15	1.25					moist - wet
		15						headspace = 2.0
		16						
6		100/0.2	1.25		piece of reddish rock			
					augers grinding hard			wet
8		31			few lg gray siltsone cobbles and moist brn $ w/ fmG			
		22	2.5					
		50/0.3						headspace = 2.0
10		23			several gray siltsone cobbles on top			
		19	2.0		moist, dense brn $ w/ fmG			
		28						headspace = 2.0
		34						
12		31			gray siltsone cobble, brn $ w/ fmG			not enough for sample
		50/0.2	1.75		augers grinding hard			
						12.8		uager refusal at 12.8'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-3

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY	SHEET	1 OF 1
CLIENT	NYSDEC			PROJECT No.	0266327
DRILLING CONTRACTOR	American Auger			MEAS. PT. ELEV.	
PURPOSE				GROUND ELEV.	487.3
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE	CORE	CASING	DATE STARTED 5/12/97
DRILL RIG TYPE		TYPE	SS		DATE FINISHED 5/12/97
GROUND WATER DEPTH		DIA.	2"		DRILLER J. Pietruch
MEASURING POINT	ground	WEIGHT	140 #		PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL	30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		2			med brn $ w/ fmcG and organics			
		1	1.25					very wet
		1						headspace = 2.5
		1						
2		2			fmcG w/ less med brn $ and trace Cy$			
		2	1.25					very wet - dripping
		5						headspace = 2.5
		10						
4		6			very wet slop - med brn $ and fmcG and organics			
		8			lg cobble in bottom of spoon			
		24						
		50/0.3						augers grinding hard
6					very hard - auger to 7'			
		23			as above			
		53	1.25		at 7.7' becomes dense brn $ and Cy$ w/ fG and few cobbles, not as wet			
8		30						headspace = 2.5
		42						
		44			v moist brn $ and CyS w/ fmcG, few cobbles			
		48	1.25					
10		32						headspace = 4.5
		40						
		50/0.2			piece of gray siltstone			augers grinding hard
12								
					augers grinding - auger to 14'			
14								
		50/0.3			gray siltsone			
						14.3		auger refusal at 14.3'

MALCOLM PIRNIE

TEST BORING LOG

BORING No. SB-4

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY	SHEET	1 OF 1
CLIENT	NYSDEC			PROJECT No.	0266327
DRILLING CONTRACTOR	American Auger			MEAS. PT. ELEV.	
PURPOSE				GROUND ELEV.	487.8
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE	CORE / CASING	DATE STARTED	5/7/97
DRILL RIG TYPE		TYPE	SS	DATE FINISHED	5/7/97
GROUND WATER DEPTH		DIA.	2"	DRILLER	J. Pietruch
MEASURING POINT	ground	WEIGHT	140 #	PIRNIE STAFF	LAC
DATE OF MEASUREMENT		FALL	30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		8			red-brn fmcG and $			
		6	1.0					headspace = 1.5
		14						
		10						
2		14			yellow-brn $ w/ little lt gray mottling, trace fmG			
		19	1.0					dry headspace = 1.0
		50/0.3						
4								
		20			wet, red-brn $ grades to brn $ w/ little fmcG			
		20	0.75					
		12						headspace = 1.25
		18						
6		19			wet brn $ w/ little fmG and piece of gray siltstone			
		50/0.2	0.75					augers grinding hard headspace = 1.25
8		20			8.0-8.8' brn to red-brn $ w/ cG, wet			
		27						
		25			8.8-9.2' very dense med-brn S, no G	8.8		headspace = 1.25
		44						
10		9			10.0-10.4' red-brn $ w/ fmG	10.0		
		56	1.0		bottom 0.4' med-brn $, moist, dense			
		50/0.1				10.4		headspace = 1.25
						11.1		auger refusal - cutterhead destroyed
						11.5		

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-5

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY	SHEET	1 OF 1
CLIENT	NYSDEC			PROJECT No.	0266327
DRILLING CONTRACTOR	American Auger			MEAS. PT. ELEV.	
PURPOSE				GROUND ELEV.	487.2
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE	CORE	CASING	DATE STARTED 5/13/97
DRILL RIG TYPE	TYPE	SS			DATE FINISHED 5/13/97
GROUND WATER DEPTH	DIA.	2"			DRILLER R. Baye
MEASURING POINT	ground	WEIGHT	140 #		PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL	30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		7			0.2' of brn $ w/ fmcG, organics, moist			
		15	1.25		lg. gray siltstone cobble in bottom of			moist
		15			spoon			headspace = 1.5
		14						
2		14	5		moist brn $ w/ fmcG (gray)			
		15	5					moist
		18						headspace = 5.0
		19	4					
4		11			moist brn $ w/ lt gray-brn areas, trace			
		15	2.5		Cy$, trace fmG			
		14						headspace = 10.5
		12						
6		11	17		brn $ w/ fmG			
		18	10					very moist to wet
		32	5					headspace = 6.5
		43						
8		43			as above w/ lots of cG, dry			
		58	3.5					headspace = 12.5
		50/0.3						
10								
		21			brn $ w/ lots of cG (gray), dry, moist			
		57	5					headspace = 22
		50/0.4						
12					on rock, continue augering			
					augers grinding hard			augers grinding hard
14					dry brn $ and gray cobbles			
		33						
		50/0.4	30		brn to red-brn $ w/ fmG, wet, piece of			auger to 15' and try another spoon
		10			gray siltstone in bottom			
16		19	17					headspace = 92
		17						
		24						
		23	17		top 0.2' brn to red-brn $ w/ fmG (PID = 17)			
18		25	2					
		37			rest is hard, dense brn to red-brn $ w/ fmcG, moist (PID = 2)			headspace = 7
		50/0.3				18.8		auger refusal at 18.8'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-6

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY	SHEET	1 OF 1
CLIENT	NYSDEC			PROJECT No.	0266327
DRILLING CONTRACTOR	American Auger			MEAS. PT. ELEV.	
PURPOSE				GROUND ELEV.	487.3
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE	CORE	CASING	DATE STARTED 5/7/97
DRILL RIG TYPE	TYPE	SS			DATE FINISHED 5/7/97
GROUND WATER DEPTH	DIA.	2"			DRILLER J. Pietruch
MEASURING POINT	ground	WEIGHT	140 #		PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL	30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		9			red-brn $ and fmcG			
		10	1.0		vfS in bottom of spoon			very wet
		22						headspace = 0.75
		21						
2		13			brn $, moist to wet, trace fmG			
		11	0.75					
		11	1.0					headspace = 0.75
		13						
4		12			red-brn $ w/ fmcG, grades to brn			
		12	1.25					very moist to wet
		23						headspace = 0.75
		17						
6		30			6.0-6.4' brn $, moist			
		25	1.0		6.4-6.6' red-gray siltstone			
		30			6.6-7.6' very dense brn $ w/ fmG, moist			headspace = 1.0
		54			7.6-7.7' some dry, lt brn $ w/ more fmG			
8		25			dense med brn $ and Cy$ w/ trace G and			
		50			cobbles to 9.0'			
		40			9.0-9.4' very dense brn $ and Cy$ w/ dk			headspace = 0.75
		52			gray-brn $ and Cy$ mottling w/ fmG			
10		32	0.75		several gray siltstone cobbles on top			
		30	1.0		very dense brn $ w/ dk gray $ and Cy$			
		30						headspace = 0.75
		52						
12		27			very dense brn $ w/ fmG and Cy$			
		37	0.75					
		31	1.0					headspace = 0.75
		37						
14		35			as above - only trace of cG			
		35	0.75					
		45	1.0					MS/MSD collected
		57						not enough sample for headspace
16		34			red-brn $ and Cy$ w/ mcG, gray siltstone			
		55	1.0		in bottom			
		50/0.2				17.3		headspace = 1.75
								auger refusal at 17.3'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-7

PROJECT	BECKER ELECTRONICS	LOCATION East Durham, NY	SHEET 1 OF 1
CLIENT	NYSDEC		PROJECT No. 0266327
DRILLING CONTRACTOR	American Auger		MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.1
WELL MATERIAL			DATUM
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE / CORE / CASING	DATE STARTED 5/7/97
DRILL RIG TYPE		TYPE: SS	DATE FINISHED 5/7/97
GROUND WATER DEPTH		DIA.: 2"	DRILLER J. Pietruch
MEASURING POINT	ground	WEIGHT: 140 #	PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL: 30"	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION — KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		7			red-brn $ and fmcG, grades to brn, lots of G			
		11	1.0					headspace = 2.0
		14						
2		14						
		44			top 0.2' gray mcG			
		50/0.2	0.75		bottom 0.2' brn $ w/ red-brn areas, lg cobble in bottom of spoon			very wet headspace = 10.5
4								
		7			4.0-5.0' red-brn $ w/ fmG			
		9	0.75					headspace = 6.5
		6			5.0-5.05' fmcS (qtz)	5.0		
		16			5.05-5.7' red-brn to brn $ w/ mcG and few cobbles	5.1		
6		16						
		17	1.0		red-brn $ w/ trace fmG			wet
		15			cobble at 6.5' (gray siltstone)			headspace = 7.5
		65			6.5-7.5' med brn to yellow-brn dense $ w/ less fmG			moist
8					bottom of spoon contains rock frags			
					rock - auger to 9'			
		15			wet, red-brn $ w/ cG			
		15	1.0		cobble at 9.4'			
10		24			9.4-10.2' brn to red-brn $ w/ trace fmG	10.2		headspace = 38
		24						
		15	7		10.2-10.4' med brn $ (no G)-definite color change from above			
		33	1.5		mcG on top of dense med brn to yellow-brn $	11.6		headspace = 70
12		33	1.5					
		33						
		30			11.6-11.9' med brn vfS layered in wet, brn to yellow-brn $, no G			
		91	7		0.3' of red-brn $ w/ red-gray siltstone cobbles			headspace = 190
14		35						
		28						
		25	20		13.3-13.9' brn to yellow-brn $ w/ trace Cy$, trace vfS at 13.45'	15.0		
		33						
16		33	30		brn $, wet, few cobbles, trace Cy$			headspace = 200
		35						
		100/0.15			as above w/ lg. siltstone cobble in bottom of spoon	17.5		auger refusal at 17.5'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-8

PROJECT	BECKER ELECTRONICS	LOCATION East Durham, NY	SHEET 1 OF 1
CLIENT	NYSDEC		PROJECT No. 0266327
DRILLING CONTRACTOR	American Auger		MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.2
WELL MATERIAL			DATUM
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE / CORE / CASING	DATE STARTED 5/13/97
DRILL RIG TYPE		TYPE: SS	DATE FINISHED 5/13/97
GROUND WATER DEPTH		DIA.: 2"	DRILLER R. Baye
MEASURING POINT	ground	WEIGHT: 140 #	PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL: 30"	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION (KEY - Color, Major, Minor Moisture, Etc.)	ELEV. / DEPTH	WELL Constr.	REMARKS
		16			dry, red-brn to brn $ and mcG			
		21	1.25					headspace = 2.75
		32						
		43						
2		33			top 0.4' red-brn $ and G			
		25	13		bottom 0.4' brn $ w/ mcG			very moist to wet
		11						headspace = 80
		13						
4		8			as above (brn $ and fmcG)			
		12	20					moist to wet
		14						headspace = 164
		12						
6		8	5		wet brn $ and mcG			
		12						
		20	10		shale frags at 6.9'			headspace = 140
		50/0.1						
8		53			no recovery			
		43						
		50/0.4						
10		20	25		several gray siltstone cobbles on top of			
		54			brn $ w/ fmcG (some red-gray)			moist
		50	35					not enough sample for headspace
		50/0.3						
12		9	90		lots of gray siltstone cobbles, brn $ w/			
		37	15		fmcG			
		50/0.3			bottom 0.4' gray siltstone			not enough sample for headspace
14					on boulder or rock - continue augering			
						15.0		

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-9

PROJECT: BECKER ELECTRONICS	LOCATION: East Durham, NY		SHEET 1 OF 1
CLIENT: NYSDEC			PROJECT No. 0266327
DRILLING CONTRACTOR: American Auger			MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.3
WELL MATERIAL			DATUM
DRILLING METHOD(S): 3 1/4" HSA		SAMPLE / CORE / CASING	DATE STARTED 5/6/97
DRILL RIG TYPE	TYPE	SS	DATE FINISHED 5/6/97
GROUND WATER DEPTH	DIA.	2"	DRILLER J. Pietruch
MEASURING POINT: ground	WEIGHT	140 #	PIRNIE STAFF LAC
DATE OF MEASUREMENT	FALL	30"	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION (KEY - Color, Major, Minor Moisture, Etc.)	ELEV. / DEPTH	WELL Constr.	REMARKS
		13			fmcG w/ less brn-red $, dry			
		50	1.5					
		15			bottom 0.3' yellow-brn $ w/ trace mG			headspace = 1.5
		20						
2		20			no recovery - pushed a cobble?			
		23						
		29						
		28						augers grinding hard
4		15			brn $ w/ less fmcG			
		20	1.5					very moist to wet
		25						headspace = 6.5
		37						
6		20			as above			
		40	1.5					
		60						headspace = 4.5
		57						
8		25			brn $ w/ lg gray siltstone cobbles			
		32	1.5					
		50/0.2				9.2		headspace = 20
								auger refusal at 9.2'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-10

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY
CLIENT	NYSDEC		
DRILLING CONTRACTOR	American Auger		
PURPOSE			
WELL MATERIAL			
DRILLING METHOD(S)	3 1/4" HSA		
DRILL RIG TYPE			
GROUND WATER DEPTH			
MEASURING POINT	ground		
DATE OF MEASUREMENT			

	SAMPLE	CORE	CASING
TYPE	SS		
DIA.	2"		
WEIGHT	140 #		
FALL	30"		

SHEET	1 OF 1
PROJECT No.	0266327
MEAS. PT. ELEV.	
GROUND ELEV.	487.1
DATUM	
DATE STARTED	5/7/97
DATE FINISHED	5/7/97
DRILLER	J. Pietruch
PIRNIE STAFF	LAC

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		12			top 0.3' dk brn $ w/ fmcG			
		24	0.75		red-brn fmcG w/ less $			
		46						headspace = 1.0
		50/0.2						
2		20			red-brn $ w/ fmcG			
		15	1.0		siltstone cobble			dry
		20						headspace = 2.5
		23						
4		50/0.2			piece of gray siltstone			
								auger to 6', augers grinding hard
6		15			several gray siltstone cobbles on top of			
		35	0.75		red-brn $ w/ less fmG, trace Cy$, dense			dry
		60						headspace = 4.75
		70						
8					augers grinding - go to 9'			
		25			piece of gray siltstone on top			
		15			brn $ w/ few areas of red-brn $, trace			wet
10		20			fmG, trace Cy$			headspace = 6.0
		22						
		15			no recovery - pushed a cobble (gray)			
		28						
12		36						
		38						
		16			13.0-13.4' red-brn $ w/ mcG, moist			
		28			13.4-13.6' red-gray siltstone			
14		50			13.6-13.8' med brn $ w/ trace mG			headspace = 35
		50/0.2				14.7		auger refusal at 14.7'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-11

PROJECT	BECKER ELECTRONICS	LOCATION East Durham, NY	SHEET 1 OF 1
CLIENT	NYSDEC		PROJECT No. 0266327
DRILLING CONTRACTOR	American Auger		MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.1
WELL MATERIAL			DATUM
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE / CORE / CASING	DATE STARTED 5/6/97
DRILL RIG TYPE	TYPE: SS		DATE FINISHED 5/6/97
GROUND WATER DEPTH	DIA.: 2"		DRILLER J. Pietruch
MEASURING POINT	ground — WEIGHT: 140 #		PIRNIE STAFF LAC
DATE OF MEASUREMENT	FALL: 30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION — KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		15			red-brn fmcG and $, dry			
		21	1.5					headspace = 1.5
		27						
		17						
2		19			med brn $, fmcG, dry, less G than above			
		18	1.5					
		22	5.0					headspace = 1.5
		23						
4		47			as above to 4.5'			
		20	1.5		red-brn $, trace vfS and gray siltstone cobble, wet			headspace = 1.75
		20			bottom 0.05' has lt brn w/ trace lt gray $ w/ little Cy$			
		20						
6		30	1.5		red-brn and yellow-brn $, trace Cy$, and cobbles (more with depth)			wet
		45	2.0					
		30	2.5					headspace = 4.25
		50/0.3	1.5					
8		15			very wet, brn and red-brn $ w/ fmG changes to cG and cobbles w/ depth			
		35						
		35						headspace = 3.0
		35						
10		25			top 0.4' mcG and cobbles in very wet brn $			
		25	1.5		bottom 0.6' med brn $ w/ less fmG			very wet
		8						headspace = 11
		13						
12		25			brn $ w/ fmcG (some reddish)			
		30	2.0					moist to wet
		35						headspace = 9.5
		40						
14		40			top 0.4' gray siltstone			
		40	1.5		bottom 0.4' brn $ and fmG (siltstone)			wet
								headspace = 10.5
								augers grinding hard
16						16.0		

MALCOLM PIRNIE

TEST BORING LOG

BORING No. SB-12

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY
CLIENT	NYSDEC		
DRILLING CONTRACTOR	American Auger		
PURPOSE			
WELL MATERIAL			
DRILLING METHOD(S)	3 1/4" HSA		
DRILL RIG TYPE		TYPE	SS
GROUND WATER DEPTH		DIA.	2"
MEASURING POINT	ground	WEIGHT	140 #
DATE OF MEASUREMENT		FALL	30"

	SAMPLE	CORE	CASING

SHEET	1 OF 1
PROJECT No.	0266327
MEAS. PT. ELEV.	
GROUND ELEV.	487.1
DATUM	
DATE STARTED	5/6/97
DATE FINISHED	5/6/97
DRILLER	J. Pietruch
PIRNIE STAFF	LAC

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		14			moist, med brn $ w/ fmcG which grades			
		14	1.0		from gray to red-brn			
		20						headspace = 2.5
		25						
2		25			yellow-orange-brn $ w/ occ. fmcG, very			
		23	1.0		dense			
		30						headspace = 1.5
		50/0.3						
4		20			red-brn $ w/ trace fG and trace C, moist			
		20	1.0		very moist			
		20						headspace = 1.5
		20						
6		22			red-brn $ w/ trace C and trace fG			
		22	1.0		6.2-6.4' med yellow-brn dry $, trace fG,			
		25			moist			headspace = 1.5
		27						
8		20			red-brn $ w/mcG			
		25						very moist to wet
		30						headspace = 1.5
		23						
10		15	2.0		moist to very moist red-brn $ and mcG			
		30						
		30						headspace = 1.5
		30						
12		15	1.0		as above			
		25	3.0					
		50			12.8-13.0' some dry brn $			headspace = 1.5
		100						
14		80/0.5	1.5		very wet red-brn $ and mcG, shale frags.			
		50/0.2	3.0		red-gray and green-gray rock in bottom			
								very wet
								headspace = 2.0
16								
		22			very wet, as above except siltstone rather			
		87	2.0		than shale frags			
								headspace = 2.0
						17.4		

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-13

PROJECT	BECKER ELECTRONICS	LOCATION East Durham, NY	SHEET 1 OF 1
CLIENT	NYSDEC		PROJECT No. 0266327
DRILLING CONTRACTOR	American Auger		MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.1
WELL MATERIAL			DATUM
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE / CORE / CASING	DATE STARTED 5/6/97
DRILL RIG TYPE	TYPE	SS	DATE FINISHED 5/6/97
GROUND WATER DEPTH	DIA.	2"	DRILLER J. Pietruch
MEASURING POINT	ground — WEIGHT 140 #		PIRNIE STAFF LAC
DATE OF MEASUREMENT	FALL	30"	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION (KEY - Color, Major, Minor Moisture, Etc.)	ELEV. / DEPTH	WELL Constr.	REMARKS
		11			dry, red-brn mcG w/ less $, poorly sorted			
		27	1.5					headspace = 2.0
		19						
2		14						
		8			yellow-red-brn $ and fmcG, moist			
		35	1.75					moist
		35						headspace = 1.5
		30						
4		28			med brn $ and fmcG (mostly fm), few reddish cobbles			
		34	1.5					
		38						headspace = 2.0
		37						
6		15			as above, red-brn $ and fmcG, but w/ trace Cy$			very moist to wet
		20	2.0					
		30						headspace = 1.5
		33						augers grinding
8		10			as above (6-8'), but less G, trace C			
		15						moist to wet
		20						headspace = 1.5
		25						
10		3			red-brn $ w/ fmcG, wet			
		13	2.0					
		13						headspace = 1.5
		50/0.1				11.6		auger refusal at 11.6'

MALCOLM PIRNIE

TEST BORING LOG

BORING No. SB-14

PROJECT	BECKER ELECTRONICS	LOCATION East Durham, NY	SHEET 1 OF 1
CLIENT	NYSDEC		PROJECT No. 0266327
DRILLING CONTRACTOR	American Auger		MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.1
WELL MATERIAL			DATUM
DRILLING METHOD(S)	3 1/4" HSA		DATE STARTED 5/13/97
DRILL RIG TYPE			DATE FINISHED 5/13/97
GROUND WATER DEPTH			DRILLER J. Pietruch
MEASURING POINT	ground		PIRNIE STAFF LAC
DATE OF MEASUREMENT			

	SAMPLE	CORE	CASING
TYPE	SS		
DIA.	2"		
WEIGHT	140 #		
FALL	30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		14			red-brn fmcG and $, few gray cobbles			
		25	1.5					headspace = 1.5
		29						
		30						
2		21			brn $ w/ fmcG (red-brn)			
		25	2.5					moist
		50/0.5	1.5					headspace = 1.5
4		17			brn $ and fmcG			
		17	1.75					headspace = 1.75
		41						
		43						
6		25			wet brn $ w/ less fmcG			
		12	1.5					headspace = 1.5
		13						
		12						
8		12	1.5		as above			
		15	15					headspace = 2.0
		25	1.75					
		31						
10		12	1.5		as above (wet brn to red-brn $ w/ fmcG)			
		43	2.0					headspace = 1.75
		33						
		41						
12		11			dense, hard lt and med brn $ w/ fmG			
		16	1.5					headspace = 12
		18	3.5					
		21						
14		22			dense, as above but more red-brn			
		50/0.1	1.5					headspace = 17
16						16.0		auger refusal at 16.0'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-15

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY	SHEET	1 OF 1
CLIENT	NYSDEC			PROJECT No.	0266327
DRILLING CONTRACTOR	American Auger			MEAS. PT. ELEV.	
PURPOSE				GROUND ELEV.	487.1
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	3 1/4" HSA	SAMPLE	CORE	CASING	DATE STARTED 5/13/97
DRILL RIG TYPE	TYPE	SS			DATE FINISHED 5/13/97
GROUND WATER DEPTH	DIA.	2"			DRILLER J. Pietruch
MEASURING POINT	ground	WEIGHT	140 #		PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL	30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		11			red-brn $ and fmcG grades to brn			
		36	1.25					headspace = 3.75
		18						
		13						
2		10			moist brn $ w/ fmcG and several gray cobbles			
		12	4.0					headspace = 5.0
		25						
		22	2.5					
4		35			few inches of gray siltstone cobbles on top			
		27	2.0		brn $ w/ areas of orange-brn and fmcG, moist, more dense			headspace = 5.5
		33						
		47						
6		7			brn $ w/ fmcG			
		10	1.5					moist headspace = 2.75
		13						
		18						
8		17			moist, brn $ w/ fmcG and trace Cy$			
		19						
		17						headspace = 2.5
		19						
10		7			as above			
		11	1.5					
		14	2.0					headspace = 6.75
		26						
12		17	4		wet, as above			
		23	6		bottom 0.5' more dense, moist			wet headspace = 32
		21						
		38						
14		8						
		26	8.5					
		26	8					headspace = 55
		31						
16						16.0		auger refusal at 16.0'

MALCOLM PIRNIE	TEST BORING LOG	BORING No. SB-16

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY			SHEET 1 OF 1
CLIENT	NYSDEC					PROJECT No. 0266327
DRILLING CONTRACTOR	American Auger					MEAS. PT. ELEV.
PURPOSE						GROUND ELEV. 487.3
WELL MATERIAL						DATUM
DRILLING METHOD(S)	3 1/4" HSA		SAMPLE	CORE	CASING	DATE STARTED 5/13/97
DRILL RIG TYPE		TYPE	SS			DATE FINISHED 5/13/97
GROUND WATER DEPTH		DIA.	2"			DRILLER J. Pietruch
MEASURING POINT	ground	WEIGHT	140 #			PIRNIE STAFF LAC
DATE OF MEASUREMENT		FALL	30"			

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		19			red-brn $ and fmc gray G, grades to brn $ and G			
		36	1.25					headspace = 2.0
		30						
2		14						
		19			brn $ w/ fmcG and trace orange and lt gray $			
		32	1.25		several cobbles at 2.9'			headspace = 2.0
		46						
4		30						
		11			gray siltstone cobbles on top of brn $ w/ fmG, dry to moist			
		31	1.25					headspace = 2.75
		23						
6		18						
		11			brn $ w/ fmcG, very moist			
		18	1.25					headspace = 4.0
		32						
8		31						
		81	2.0		as above, moist			
		36						
		40	1.25		bottom 0.4' red-gray rock frags and cobbles			headspace = 4.0
		48						
10		15			as above w/ lots of G			
		17	1.5					headspace = 14.5
		15						
		18						
12		5	5		as above but more dense, trace Cy$			
		10	5					
		20	4					headspace = 42
		20						
14		50/0.2			red-gray rock			
						14.5		auger refusal at 14.5'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-17

PROJECT	BECKER ELECTRONICS	LOCATION	East Durham, NY	SHEET	1 OF 1
CLIENT	NYSDEC			PROJECT No.	0266327
DRILLING CONTRACTOR	American Auger			MEAS. PT. ELEV.	
PURPOSE				GROUND ELEV.	486.9
WELL MATERIAL				DATUM	
DRILLING METHOD(S)	3 1/4" HSA		SAMPLE / CORE / CASING	DATE STARTED	5/20/97
DRILL RIG TYPE		TYPE	SS	DATE FINISHED	5/20/97
GROUND WATER DEPTH		DIA.	2"	DRILLER	J. Pietruch
MEASURING POINT	ground	WEIGHT	140 #	PIRNIE STAFF	LAC
DATE OF MEASUREMENT		FALL	30"		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION (KEY - Color, Major, Minor Moisture, Etc.)	ELEV. DEPTH	WELL Constr.	REMARKS
		20			moist, brn $ w/ fmcG			
		14	0.75					headspace = 1.0
		10						
		10						
2		8			as above but w/ more cG (gray siltstone)			
		10	0.75					moist
		14						headspace = 0.5
		50/0.3						
4		10			loose brn $ and fmcG on top of 0.2' of			
		20	1.25		gray-brn $yC			
		11						headspace = 1.0
		10						
6		12			brn to gray-brn Cy$ w/ mcG			
		12	1.0		bottom 0.25' wet fmS	6.5 / 6.7		wet
		10						headspace = 0.5
		11						
8		50/0.5	1.0		mcG, gray, loose, w/ brn $			
					augers grinding hard to 10'			wet
								headspace = 1.5
10		50			very wet fG and $ above loose fmcG and			
		50/0.2			Cy$ (brn), very wet			very wet
					NOTE:sample is very wet and contains a lot of gravel	11.0		headspace = 1.5
								auger refusal at 11.0'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-18

PROJECT: BECKER ELECTRONICS	LOCATION: East Durham, NY		SHEET 1 OF 1
CLIENT: NYSDEC			PROJECT No. 0266327
DRILLING CONTRACTOR: American Auger			MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.0
WELL MATERIAL			DATUM
DRILLING METHOD(S): 3 1/4" HSA	SAMPLE	CORE	CASING
DRILL RIG TYPE	TYPE: SS		DATE STARTED 5/20/97
GROUND WATER DEPTH	DIA.: 2"		DATE FINISHED 5/20/97
MEASURING POINT: ground	WEIGHT: 140 #		DRILLER: J. Pietruch
DATE OF MEASUREMENT	FALL: 30"		PIRNIE STAFF: LAC

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		35			red-brn fmcG and $, dry			
		40	1.0					headspace = 1.2
		21						
2		11						
		12			moist, brn $ w/ fmcG			
		15	1.0					headspace = 0.6
		15						
4		14						
		36			as above for top 0.2'			
		40	1.0		bottom 0.3' gray cobbles w/ brn $			headspace = 1.0
		28						
6		8						
		4			6.0-6.5' brn and gray fS in Cy$ w/ few	6.0		
		4	1.0		pieces of mcG			very wet
		10			bottom 0.25' lt gray $yC w/ lt yellow-brn	6.5		headspace = 1.2
		12			mottling, trace organics			
8		11	1.0		as above to 8.2'	8.2		
		15	1.25		8.2-8.6' fmS, less $ and $yC, gray			wet
		50/0.4				8.8		headspace = 1.6
10								
		11			v moist to wet brn $ w/ trace fG			
		20	1.0					headspace = 1.4
		18						
		18						
12		14	1.0		as above, very wet brn $ w/ fmG			collect MS/MSD
		28						headspace = 1.4
		50/0.1				13.1		auger refusal at 13.1'

MALCOLM PIRNIE — TEST BORING LOG — BORING No. SB-19

PROJECT: BECKER ELECTRONICS	LOCATION: East Durham, NY		SHEET 1 OF 1
CLIENT: NYSDEC			PROJECT No. 0266327
DRILLING CONTRACTOR: American Auger			MEAS. PT. ELEV.
PURPOSE			GROUND ELEV. 487.0
WELL MATERIAL			DATUM
DRILLING METHOD(S): 3 1/4" HSA	SAMPLE	CORE	CASING	DATE STARTED 5/21/97
DRILL RIG TYPE	TYPE: SS			DATE FINISHED 5/21/97
GROUND WATER DEPTH	DIA.: 2"			DRILLER J. Pietruch
MEASURING POINT: ground	WEIGHT: 140 #			PIRNIE STAFF LAC
DATE OF MEASUREMENT	FALL: 30"			

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION (KEY - Color, Major, Minor Moisture, Etc.)	ELEV. / DEPTH	WELL Constr.	REMARKS
		7			red-brn $ w/ mcG, slightly moist			
		50/0.3	1.0					headspace = 2.0
2		7			brn to red-brn $ w/ cG and few cobbles, moist			
		14	1.0					headspace = 1.8
		50/0.3						
4		10			loose fmcG and red-brn $, moist			
		20	1.75					moist
		10						headspace = 1.8
		15						
6		8			wet brn $ w/ trace mcG, trace Cy$			
		10	1.0					headspace = 4.0
		11						
		11						
8		14			wet brn $ w/ gray and lt brn areas, trace vfS, trace Cy$	8.0		
		20	1.0		lg cobble at 9'			headspace = 4.0
		30				9.4		
		13						
10		15			dense brn $ w/ mcG, moist			
		15	1.5					moist
		19						headspace = 3.0
		16						
12		10			wet brn $ w/ mcG (less than above)			
		12	1.5					wet
		14						headspace = 2.6
		18						
14		11			as above (14-16')			
		18	1.25					headspace = 4.0
		19						
		50/0.4						
16					auger to refusal at 16.5'			
						16.5		auger refusal at 16.5'

MALCOLM PIRNIE	TEST BORING LOG	BORING No. SB-20
PROJECT **BECKER ELECTRONICS**	LOCATION **East Durham, NY**	SHEET 1 OF 1
CLIENT **NYSDEC**		PROJECT No. **0266327**
DRILLING CONTRACTOR **American Auger**		MEAS. PT. ELEV.
PURPOSE		GROUND ELEV.
WELL MATERIAL		DATUM
DRILLING METHOD(S) **3 1/4" HSA**	SAMPLE / CORE / CASING	DATE STARTED **5/21/97**
DRILL RIG TYPE	TYPE **SS**	DATE FINISHED **5/21/97**
GROUND WATER DEPTH	DIA. **2"**	DRILLER **J. Pietruch**
MEASURING POINT **ground**	WEIGHT **140 #**	PIRNIE STAFF **LAC**
DATE OF MEASUREMENT	FALL **30"**	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
		11			red-brn fmcG and $, slightly moist, gray cobble in bottom of spoon			
		21	1.25					headspace = 2.0
		19						
2		27						
		21			as above to 2.5' then moist brn $ and occ. gray cobbles			
		20	1.25					headspace = 2.0
		21						
4		21						
		22			brn to red-brn $ w/ mcG			
		30	1.25		bottom 0.4' gray cobbles			wet
		50						headspace = 1.8
		46						
6		32			brn $ w/ trace gray $, trace vfS, w/ mcG, lg cobble in end of spoon			
		74	1.25					wet
		50/0.5						headspace = 3.2
8		50/0.1			no recovery, pushed a gray cobble			
								not enough sample for headspace
10		200/0			auger to 10.5'			not enough sample for headspace
		20			brn $ w/ little mcG			
		25	1.25					wet
		13						headspace = 1.6
12		13						
		21			brn $ w/ trace mG			
		13	1.25					
		21						headspace = 2.8
14		17						
		16			brn $, Cy$, and lots of fG			
		36	1.25					very wet
		50						headspace = 1.8
16		50/0.4						
						16.4		spoon refusal at 16.4' cutterhead broken, won't auger to refusal