EPA Region 5 Records Ctr.
309397

PROJECT MALLARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING INC., SPRINGFIELD, IL.

BORING 21 DATE STARTED 11-28-79 DATE COMPLETED 11-28-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 798.0

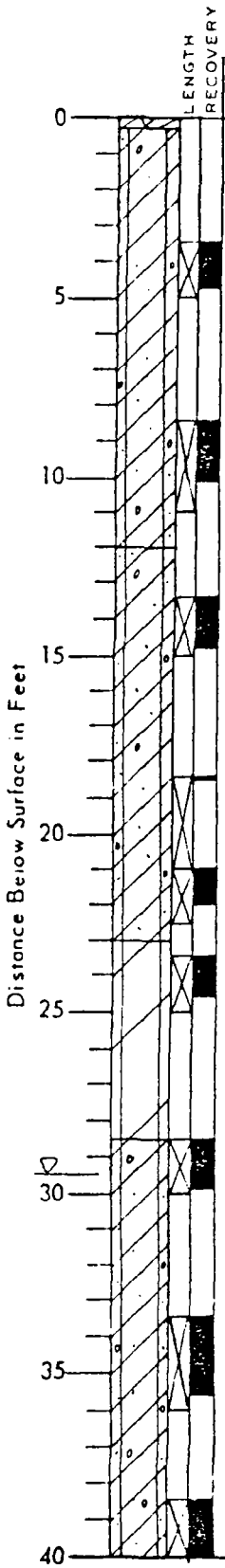
END OF BORING 733.0

WATER TABLE

AT END OF BORING Caved "DRY"@ -29.5'

24 HOURS

While Drilling -49.5'



SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
						3"		Brown clayey TOPSOIL
1	SS	24	17.0					Hard brown silty CLAY, trace sand and gravel, moist
2	2"ST		16.9	4.5+*	109.5			k=1.9x10^{-7}cm./sec Ion-Exch.=6.7 me./100gm
						12.0	786.0	
3	SS	11	18.9	2.0*				Very tough gray silty CLAY, trace sand and gravel, moist
4	2"ST							
5	SS	18	16.7	2.0*				
						23.0	775.0	
6	SS	17						Firm gray silty clay LOAM, moist
						28.5	769.5	
7	SS	20	11.6	4.5+*				Very tough to hard gray silty CLAY, trace sand and gravel, occasional silt layers, moist
8	2"ST		21.8	2.23	105.7			k=9.85x10^{-7} Ion-Exch.=3.2 me./100gm
9a b	SS	24	11.1	4.5+*				

Boring Log Continued

DRILL RIG NO. 53

TESTING SERVICE *-Approximate unconfined compression strength based on measurements with

PROJECT HILLARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING INC., SPRINGFIELD, IL.

BORING 21 DATE STARTED 11-28-79 DATE COMPLETED 11-28-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 798.0

END OF BORING 733.0

WATER TABLE

AT END OF BORING Caved "DRY"@-29.5'

24 HOURS

While Drilling -49.5'

SHEET 2 of 2

SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
10	SS	30	15.6	4.5+*				Very tough to hard gray silty CLAY, trace sand and gravel, moist
						47.0	751.0	Dense gray silty clay LOAM, moist
11	SS	32				49.3	748.7	Dense gray medium to coarse SAND, wet(saturated)
						52.0	746.0	
12	SS	33	14.8	4.5+*				Hard gray silty CLAY, trace sand and gravel, moist
13	SS	41	18.4	4.0*		60.0	738.0	
								Firm gray silty clay LOAM, occasional sand and silt seams, moist
14	SS	24	11.8					

End of Boring at 65.0 Feet

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

Distance Below Surface in Feet: 40, 45, 50, 55, 60, 65, 70, 75, 80

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT ...ARD LAKE EXPANSIONS, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING, INC., SPRINGFIELD, IL.

BORING 22 DATE STARTED 11-28-79 DATE COMPLETED 11-28-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 786.4

END OF BORING 686.4

WATER TABLE

AT END OF BORING -82.5'

24 HOURS -44.5'

While Drilling -71.0'

SHEET 1 of 3

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
0										Black clayey TOPSOIL
								1.5	784.9	
5		1	SS	12	17.9					Very tough to hard brown silty CLAY, trace sand and gravel, moist
								7.5	778.9	
10		2	SS	26	16.6	4.5+*				Hard gray silty CLAY, trace sand and gravel, moist
15		3	SS	15	11.8	4.5+*				
20		4	SS	12	11.5	4.5+*				
								22.0	764.4	
25		5	SS	11	14.9	3.5*				Very tough gray silty clay LOAM, moist k=2.22x10^{-8}cm./sec Ion-Exch.=4.0me./100gm
30		6	2"ST		17.4	3.25*	113.1			
								32.0	754.4	
35		7	SS	14	15.9	4.25*				Hard gray silty CLAY, trace sand and gravel, moist
40		8	SS	15	12.9	2.75*				

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT SILLARD LAKE EXPANSIONS, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, INVIRONMENTAL ENGINEERING, INC., SPRINGFIELD, IL.

BORING 22 DATE STARTED 11-28-79 DATE COMPLETED 11-28-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 786.4

END OF BORING 686.4

WATER TABLE

AT END OF BORING -82.5'

24 HOURS -44.5'

While Drilling -71.0'

SHEET 3 of 3

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
80										Firm to dense gray sandy LOAM, moist
								83.5	702.9	
85		17	SS	101						Very dense gray silty LOAM, moist
								88.5	697.9	
90		18	SS	9	11.5	3.0				Very tough gray silty CLAY, trace sand, moist
								93.5	692.9	
95		19	SS	40						Dense gray silt LOAM, moist
								97.0	689.4	
100		20	SS	25	13.4	3.0				Very tough gray silty CLAY, trace sand and gravel, moist
				End of Boring at 100.0 Feet						
25										
30										
35										
40										

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT MALLARD LAKE EXPANSIONS, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING, INC., SPRINGFIELD, IL.

BORING 22 DATE STARTED 11-28-79 DATE COMPLETED 11-28-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 786.4

END OF BORING 686.4

WATER TABLE

AT END OF BORING -82.5

24 HOURS -44.5'

While Drilling -71.0'

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40								42.0	744.4	
45		9	2"ST		12.8	3.5*	118.8	46.0	740.4	Very tough gray silt LOAM, moist k=7.6x10^{-7} cm./sec Ion-Exch.=2.9 me./100gm
50		10	SS	28	11.5	4.5*				Hard to very tough gray silty CLAY, trace sand and gravel
55		11	SS	22	12.6	4.5*				
60		12	SS	23	12.8	2.75*				
65		13	SS	20	11.1	3.0*		65.0	721.4	
70		14	SS	9						Loose gray loamy SAND, moist
75		15	SS	15				73.0	713.4	Firm to dense gray sandy LOAM, moist
80		16	SS	75						

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

Boring Log Continued

PROJECT ...ARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING, INC., SPRINGFIELD, IL.

BORING 23 DATE STARTED 11-29-79 DATE COMPLETED 11-29-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 807.7

END OF BORING 737.7

WATER TABLE

AT END OF BORING "DRY"

24 HOURS

While Drilling "DRY"

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
0								1.0	806.7	Black clayey TOPSOIL
5		1	SS	21	16.7					Very tough gray silty CLAY, trace sand and gravel, moist
10		2	2"ST		21.4	3.5*	106.6			k=1.84x10^{-7}cm./sec Ion-Exch.=1.0 me./100gm
15		3	SS	12	18.7	4.0*		13.5	794.2	
20		4	2"ST		20.6	4.5+*	107.2			k=1.64x10^{-7}cm./sec Ion-Exch.=4.5 me./100gm
25		5	SS	8	19.9	2.0*				Hard to very tough gray silty CLAY, trace sand and gravel, moist
30		6	SS	10	19.6	3.5*				
35		7	SS	17	11.2	4.5+*		33.0	774.7	Hard to very tough gray silty clay LOAM, moist k=1.57x10^{-8}cm./sec Ion-Exch.=3.1 me./100gm
40		8	2"ST		17.0	4.5+*	113.4			

DRILL RIG NO. 53

TESTING SERVICE

*-Approximate unconfined compression strength based on measurements with

Boring Log Continued

PROJECT HAZARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING INC., SPRINGFIELD, IL.

BORING 23 DATE STARTED 11-29-79 DATE COMPLETED 11-29-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 807.7

END OF BORING 737.7

WATER TABLE

AT END OF BORING "DRY"

24 HOURS

While Drilling "DRY"

SHEET 2 of 2

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40										
45		9	SS	15	16.6	3.25*				Hard to very tough gray silty clay LOAM, moist
50		10	SS	15	14.4	3.75*				
55		11	SS	23	18.0	2.75*				
60		12a b	SS	42	10.1 –	4.5+* –		59.0	748.7	Dense gray silt LOAM, moist
								60.5	747.2	Very tough gray silty clay LOAM, moist
65		13	SS	23	10.0			63.5	744.2	Fine gray LOAM, moist
								65.5	742.2	Hard gray silt LOAM, moist $k=3.31 \times 10^{-8}$ cm./sec Ion-Exch=3.0 me./100gm
70		14	2"ST		11.9	2.5*	126.9			
				End of Boring at 70.0 Feet						
75										
80										

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT ...LLARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING, INC., SPRINGFIELD, IL.

BORING 24 DATE STARTED 11-30-79 DATE COMPLETED 11-30-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 800.6

END OF BORING 740.6

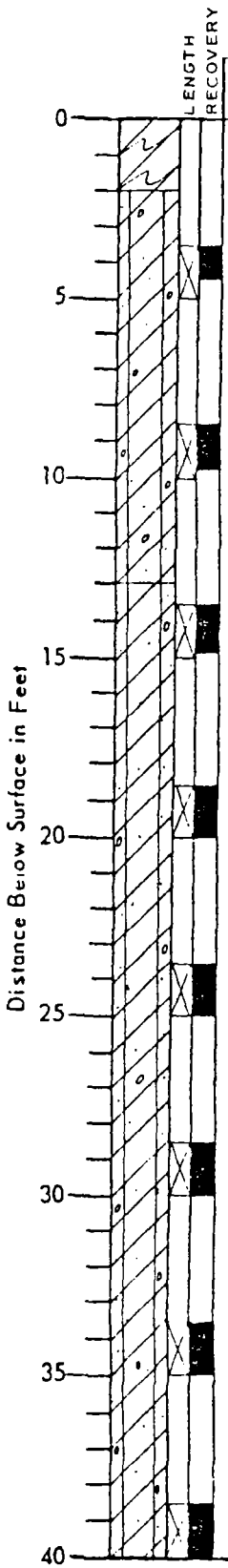
WATER TABLE

AT END OF BORING "DRY"

24 HOURS

While Drilling "DRY"

SHEET 1 of 2



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							2.0	798.6	Black clayey TOPSOIL
	1	SS	12	23.9					Hard brown and gray silty CLAY, trace sand and gravel, moist
	2	SS	26	18.7	6.22 4.5+*				
							13.0	787.6	
	3	SS	14	19.4	4.5+*				Hard to very tough gray silty CLAY, trace sand and gravel, moist(occasional silty seams--28 to -30 feet)
	4	SS	12	20.0	3.05 3.25*				
	5	SS	11	20.2	3.54 4.0*				
	6	SS	15	15.1	3.0*				
	7	SS	17	22.4	2.81 3.0*				
	8	SS	14	13.2	3.0*				

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

Boring Log continued

PROJECT MALLARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING, INC., SPRINGFIELD, IL.

BORING 24 DATE STARTED 11-30-79 DATE COMPLETED 11-30-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 800.6

END OF BORING 740.6

WATER TABLE

AT END OF BORING "DRY"

24 HOURS

While Drilling "DRY"

SHEET 2 of 2

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40										
45		1	SS	16	18.3	2.2 2.5*				Hard to very tough gray silty CLAY, trace sand and gravel, moist
50		2	SS	17	17.8	2.5*				
55		3	SS	25	17.2	2.5*				
								57.0	743.6	Tough gray silt LOAM with SILT seams, trace sand and gravel, moist
60		4	SS	15	12.9	1.1 1.5*				
				End of Boring at 60.0 Feet						
65										
70										
75										
80										

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT MALLARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING INC., SPRINGFIELD, IL.

BORING 25 DATE STARTED 11-29-79 DATE COMPLETED 11-29-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 815.7

END OF BORING 750.7

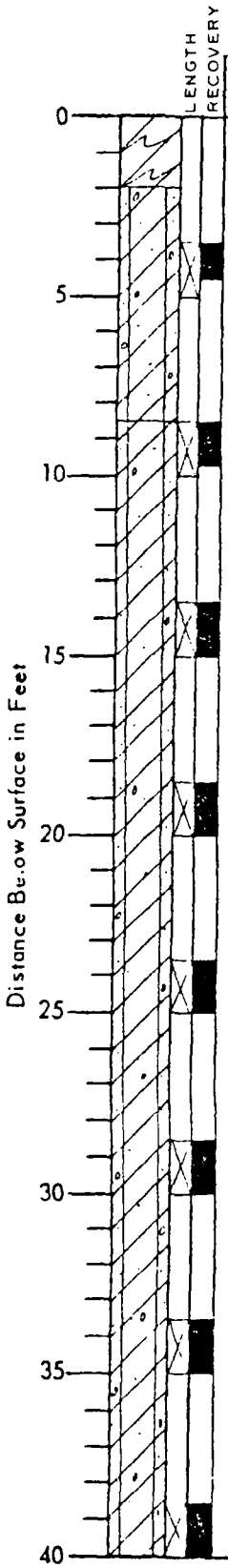
WATER TABLE

AT END OF BORING "DRY"

24 HOURS

While Drilling "DRY"

SHEET 1 of 2



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
									Black clayey TOPSOIL
							2.0	813.7	
	1	SS	15	19.5					Very tough gray silty CLAY, trace sand and gravel, moist
							8.5	807.2	
	2	SS	20	14.4	4.5+*				
	3	SS	25	14.8	4.5+*				Very tough gray silty CLAY, trace sand and gravel, moist
	4	SS	25	17.5	4.5+*				
	5	SS	16	21.5	3.5+				
	6	SS	18	21.0	3.0*				
	7	SS	21	19.4	3.5*				
	8	SS	19	18.0	3.5*				

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. 53

TESTING SERVICE CORPORATION

Boring Log Continued

PROJECT MALLARD LAKE EXPANSION, BLOOMINGDALE TOWNSHIP

CLIENT JAMES DOUGLAS ANDREWS, ENVIRONMENTAL ENGINEERING INC., SPRINGFIELD, IL.

BORING 25 DATE STARTED 11-29-79 DATE COMPLETED 11-29-79 JOB 17,233

ELEVATIONS

GROUND SURFACE 815.7

END OF BORING 750.7

WATER TABLE

AT END OF BORING "DRY"

24 HOURS

While Drilling "DRY"

SHEET 2 of 2

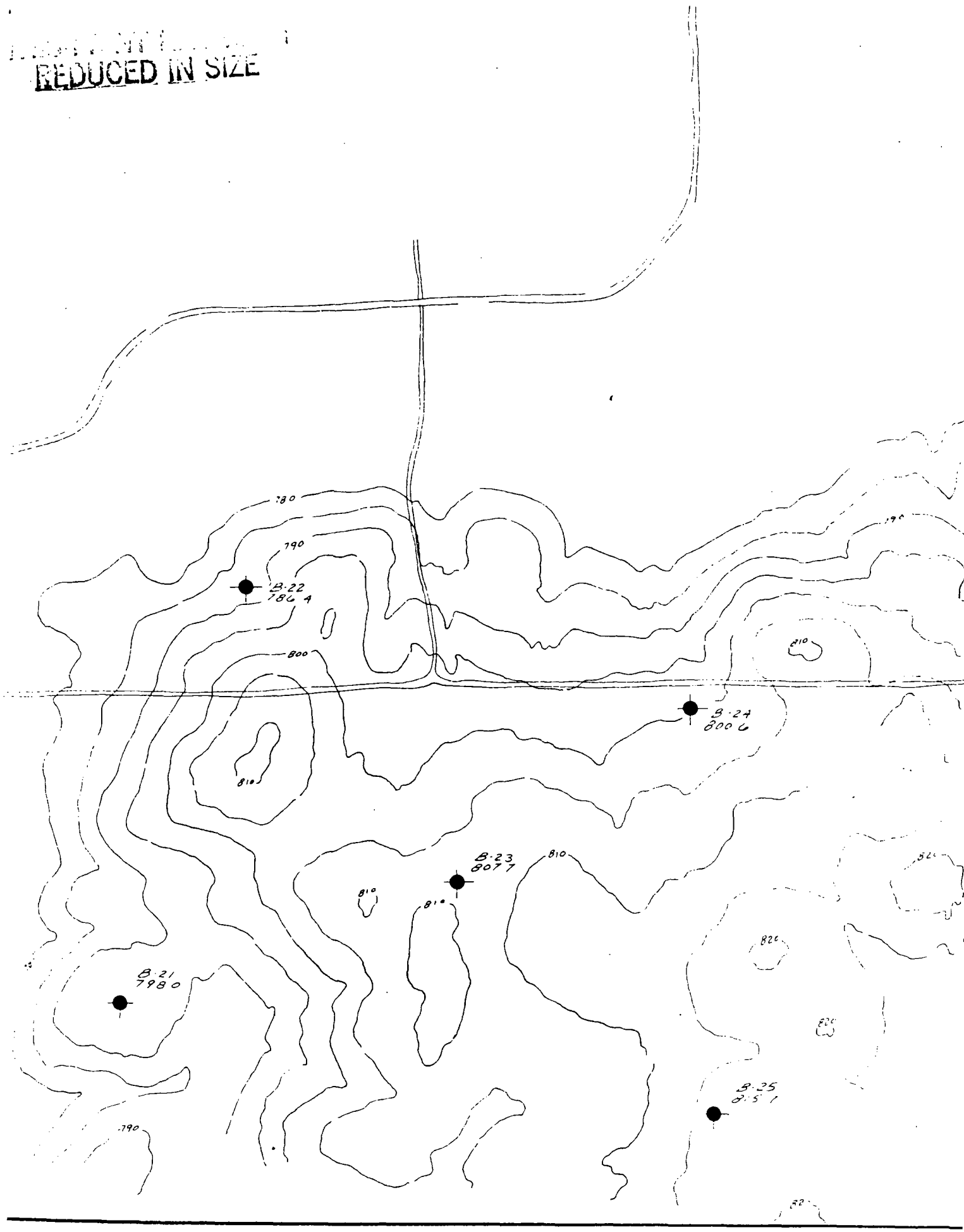
Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40										
45		9	SS	17	20.9	3.0*				Very tough gray silty CLAY, trace sand and gravel, moist
								48.5	767.2	
50		10	SS	26	13.6	3.5*				Very tough gray silt LOAM, trace sand and gravel, moist
								53.0	762.7	
55		11	SS	25	15.5	4.5+*				Hard gray silty CLAY, trace sand and gravel, moist
60		12	SS	25	18.5	3.5*				
65		13	SS	36	15.0	4.5+*				
				End of Boring at 65.0 Feet						
70										
75										
80										

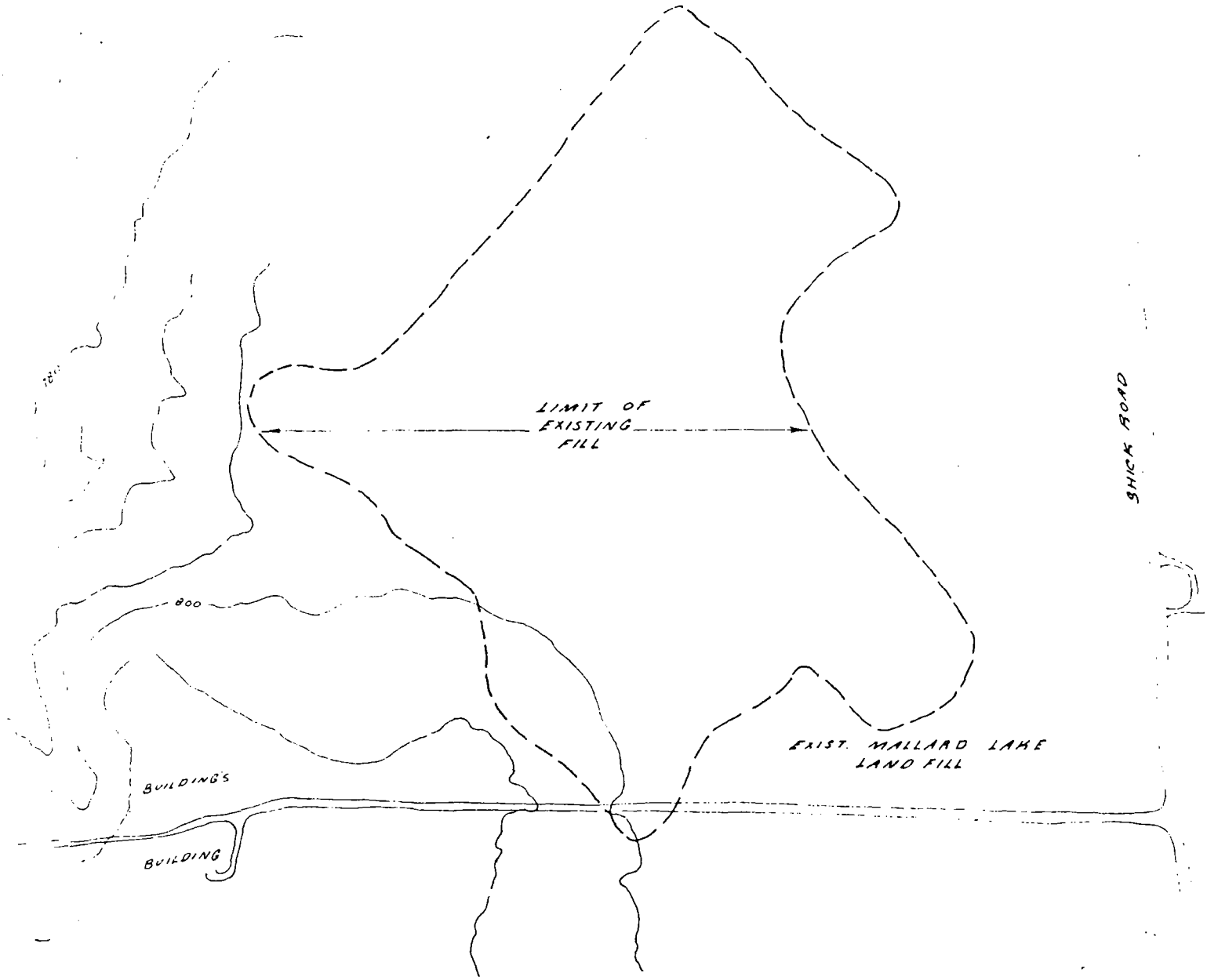
*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

REDUCED IN SIZE





BORING LOCATION PLAN

MALLARD LAKE EXPANSION
SCHICK ROAD
BLOOMINGDALE TOWNSHIP
DUPAGE COUNTY, ILLINOIS

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
WHEATON, ILLINOIS 60187
DECEMBER 3, 1979 L-17,233

October 2, 1979

L-16,975

BORINGS & MONITORING WELLS

MALLARD LAKE LANDFILL

DUPAGE COUNTY, ILLINOIS

PREPARED FOR

FOREST PRESERVE DISTRICT OF DUPAGE COUNTY

881 WEST ST. CHARLES ROAD

LOMBARD, ILLINOIS

BY

TESTING SERVICE CORPORATION

457 EAST GUNDERSEN DRIVE

WHEATON, ILLINOIS

OCTOBER, 1979

PROJECT & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-101 DATE STARTED 8-20-79 DATE COMPLETED 8-20-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 802.4

END OF BORING 742.4

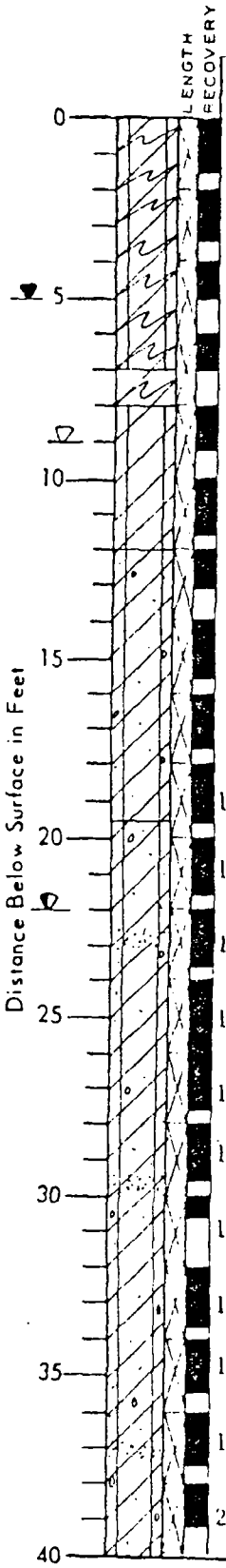
WATER TABLE

AT END OF BORING 9'

24 HOURS 5'

While Drilling 22'

SHEET 1 of 2



SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a	SS	23	22.5					
1b			22.4					
2a	SS	16	18.9					
2b			34.8					
3a	SS	9	34.7					FILL - Black clayey TOPSOIL mixed with brown silty CLAY
3b			31.4					
4a	SS	14	26.5					
4b			35.0			7.0	795.4	
						8.0	794.4	Black clayey TOPSOIL
5a	SS	12		2.0*				
5b			24.0	2.25*				Very tough to tough light brown and gray silty CLAY, moist (CL)
6a	SS	8	27.2	2.0*				
6b			32.6	1.0*				
7a	SS	18	17.6	4.5*		12.0	790.4	
7b			18.3	4.5*				Hard to very tough brown to grayish-brown silty CLAY, trace sand and gravel, moist (CL): 1" silt seam at 14'
8a	SS	21	17.7	4.5*				
8b			17.5	4.0*				
9a	SS	28	19.3	4.5*				
9b			20.8	3.5*				
10a	SS	23	21.9	3.5*				
10b			19.4			19.5	782.9	
11a	SS	24	16.6	3.25*				Very tough to tough gray silty CLAY, trace sand and gravel, moist (CL); a few scattered seams of silt and sand after 20'; occasional clayey silt seams after 30'; 1½" gravel seam at 51'
11b			17.2	3.0*				
12a	SS	24	20.5	3.10*				
12b			19.0	3.5*				
13a	SS	31	20.5	3.5*				
13b			19.0	3.0*				
14a	SS	17	21.9	3.25*				
14b			22.0	2.5*				
15a	SS	16	22.3	2.75*				
15b			20.8	2.25*				
16	SS	23	15.7	2.75*				
17a	SS	21	21.0					
17b			21.1	2.5*				
18a	SS	23	22.4	1.75*				
18b			21.1	1.75*				
19a	SS	24	22.8	2.5*				
19b			22.0	2.0*				
20a	SS	18	22.7	1.5*				
20b			22.3	1.75*				

TESTING SERVICE CORPORATION

DRILL RIG NO. 53 & 72

BORING LOG CONTINUED

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-101 DATE STARTED 8-20-79 DATE COMPLETED 8-20-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 802.4

END OF BORING 742.4

WATER TABLE

AT END OF BORING 9'

24 HOURS 5'

While Drilling 22'

SHEET 2 of 2

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ_d DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40		21 a	SS	25	22.7	1.5 *				
		b			23.9	1.75*				
		22 a	SS	19	22.6	2.0*				
		b			23.0	1.75*				
45		23 a	SS	23	22.4	2.0*				Tough to very tough gray silty CLAY, occasional silt seams, moist (CL)
		b			22.4	1.75*				
		24 a	SS	30	22.6	2.0*				
		b			22.0	2.25*				(1½" gravel layer at - 51 feet)
		25 a	SS	28	21.9	2.5*				
		b			22.3	2.5*				
50		26 a	SS	32	23.1	2.25*				
		b			16.9	2.5*				
		27 a	SS	38	14.3	2.5*		52.0	750.4	
		b			17.2	3.0*				Very tough to hard brownish gray to gray silty CLAY, little sand and gravel, moist (CL)
55		28 a	SS	41	12.8	3.5*				
		b			14.4	4.25*				
		29 a	SS	43	15.2	1.75*		56.0	746.4	
		b			20.9	2.5*				Tough to very tough gray silty CLAY, trace sand and gravel, moist (CL)
		30 a	SS	40	20.1	1.75*				
60		b			20.3	1.75*				
		End of Boring at 60.0 feet								
65										
70										
75										
80										

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

DRILL RIG NO. 53 & 72

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G102 DATE STARTED 8-27-79 DATE COMPLETED 8-27-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 805.6

END OF BORING 745.6

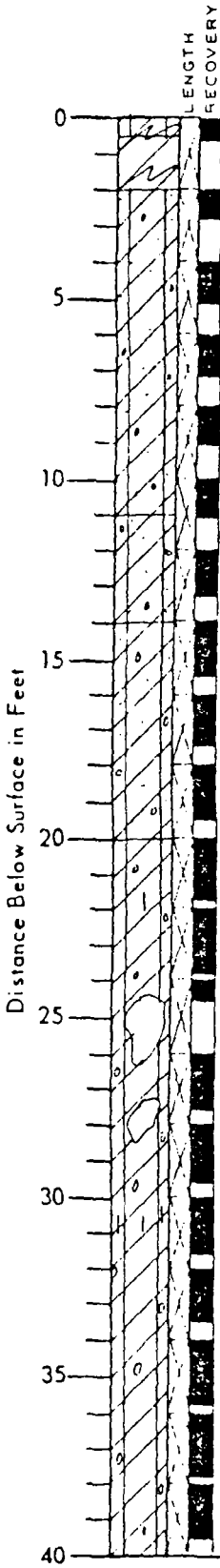
WATER TABLE

AT END OF BORING DRY

24 HOURS

WHILE DRILLING DRY

SHEET 1 of 2



SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1 a b	SS	11	25.6 26.9			0.5	805.1	FILL - Brown silty CLAY and TOPSOIL
2 a b	SS	10	18.5 17.0	3.0* 4.5+*		2.0	803.6	Black clayey TOPSOIL (OL)
3 a b	SS	18	16.7 15.6	4.5+* 4.5+*				Hard brown silty CLAY, trace sand and small gravel, silt seams, moist (CL)
4 a b	SS	19	23.9 16.6	4.5+* 4.5+*				
5 a b	SS	22	15.2 19.1	4.5+* 4.5*				
6 a b	SS	24	18.6 15.5	4.5+* 4.5+*		11.0	794.6	
7 a b	SS	25	11.6 11.4	3.0* 3.5*		14.0	791.6	Very tough brown-gray very silty CLAY, little sand, trace small to medium gravel, moist (CL)
8 a b	SS	9	20.7 31.6	3.0* 3.5*				Very tough to hard brown-gray silty CLAY, trace sand and small gravel, (Occasional silt seams below -18 feet), moist (CL)
9 a b	SS	12	23.9 19.7	4.5+* 4.5+*				
10 a b	SS	9	21.1 22.6	2.25* 2.75*				
11 a b	SS	6	23.4 21.6	2.5* 2.5*		20.0	785.6	
12 a b	SS	8	23.1 23.3	2.5* 2.75*				Tough to very tough gray silty CLAY, trace small to medium gravel, silt seams, moist (CL)
13 a b	SS	10	22.1 21.2	1.75*				
14 a b	SS	12	22.5 20.6	2.25* 1.75*				(Large gravel or BOULDER at - 25' and -28')
15 a b	SS	15	21.4 19.1					
16 a b	SS	12	21.0 21.4	3.0* 3.0*				
17 a b	SS	16	25.0 28.0	2.5* 2.5*				
18 a b	SS	17	22.1 17.5					
19 a b	SS	12	22.3 22.5	2.5* 2.75*				
20 a b	SS	12	22.3 25.2	2.5* 2.5*				

TESTING SERVICE CORPORATION

DRILL RIG NO. 53 & 72

BORING LOG CONTINUED

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING ~~G102 CONT'D~~ DATE STARTED 8-27-79 DATE COMPLETED 8-27-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 805.6

END OF BORING 745.6

WATER TABLE

AT END OF BORING DRY

24 HOURS

While Drilling DRY

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40		21a	SS	12	22.4	3.0*				Very tough gray silty CLAY, trace sand, moist (CL)
		b			12.4			41.5	764.1	
								42.0	763.6	
		22a	SS	19	15.3	3.0*				Firm gray clayey SILT, trace small gravel, moist (ML)
		b			11.8	1.5*				
45		23a	SS	28	14.0	4.5+*				Hard brown-gray silty CLAY, little sand, silt layers, some large gravel, moist (CL)
		b			16.5					
		24a	SS	30	13.4	4.5+*				
		b			11.4					
		25a	SS	27	12.9	4.5+*		48.0	757.6	Hard gray silty CLAY, trace sand and small gravel, occasional seams and pockets of silt and fine sand, moist (CL)
		b			16.3					
50		26a	SS	28	15.2	4.5+*				
		b			16.8	4.50*				
		27a	SS	29	16.9	4.50+*				
		b			17.1	4.50+*				
55		28a	SS	30	17.2	4.5+*				
		b			12.4	4.25*				
		29a	SS	16	15.5	4.5+*		56.0	749.6	Hard brown-gray silty CLAY, little sand, trace small to medium gravel, moist (CL)
		b			16.0					
		30a	SS	37	14.7	4.50+*				
		b			15.3					
60										
65										
70										
75										
80										

End of Boring at 60.0 feet

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G103 DATE STARTED 8-24-79 DATE COMPLETED 8-24-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 798.9

END OF BORING 738.9

WATER TABLE

AT END OF BORING DRY

24 HOURS

WHILE DRILLING DRY

SHEET 1 of 2

Distance Below Surface in Feet: 0, 5, 10, 15, 20, 25, 30, 35, 40

SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a	SS	6	24.1					FILL - Brown silty CLAY, trace sand and gravel, some TOPSOIL
1b			33.5					
2a	SS	9	29.3					
2b			40.8			3.0	795.9	
								Black clayey TOPSOIL
3a	SS	14	27.5					
3b			24.0			5.0	793.9	Very tough brown and gray silty CLAY, occasional silt seams, trace sand and gravel, moist (CL)
4a	SS	8	25.2	2.0*				
4b			24.6	2.25*				
5a	SS	14	16.2	2.0*		8.5	790.4	
5b			16.6	4.5+*				Hard to very tough brown silty CLAY, trace sand and gravel, moist (CL)
6a	SS	18	16.6					
6b			16.6			12.0	786.9	
7a	SS	20	19.2	4.5+*				
7b			16.6	4.5+*				Hard to very tough gray silty CLAY, occasional thin silt layers, trace small to large gravel, (Large gravel or cobble at -26 feet), moist (CL)
8a	SS	9	19.8	3.5*				
8b			20.7	3.0*				
9a	SS	9	20.3	3.25*				
9b			22.0	3.0*				
10a	SS	7	24.6	2.5*				(1" silt seam and 1" to 2" gravel at 29¼ feet)
10b			21.5	2.25*				
11a	SS	8	19.9	2.0*				
11b			20.1	2.0*				
12a	SS	12	22.0	2.25*				
12b			21.8	2.0*				
13a	SS	9	18.5	2.75*				
13b			14.7	2.5+*				
14a	SS	11	18.7	2.50*				
14b			20.2	2.50*				
15a	SS	22	21.1	2.50*				
15b			18.1	2.0*				
16a	SS	9	15.9	2.50*				
16b			20.6	2.50*				
						32.0	766.9	
17a	SS	12	20.3	2.25*				Very tough gray silty CLAY, little sand, trace small to large gravel, moist
17b			17.5	2.50*				
18a	SS	15	21.2	3.0*				
18b						35.5	763.4	(SILT seam at 33½ feet) (CL)
						36.0	762.9	Firm gray silty fine to coarse SAND, some small gravel, wet (SM)
19a	SS	14	22.3	2.5*				
19b			20.9	3.0*				Very tough brown-gray to gray silty CLAY, little sand, thin silt layers, trace small to large gravel, moist (CL
20a	SS	10	22.0	2.5*				
20b			26.0	3.0*				

TESTING SERVICE CORPORATION

BORING LOG CONTINUED

DRILL RIG NO. 53 & 72

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G103 CONT'D DATE STARTED 8-24-79 DATE COMPLETED 8-24-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 798.9

END OF BORING 738.9

WATER TABLE

AT END OF BORING DRY

24 HOURS

While Drilling DRY

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40		21a	SS	9	24.3	2.0*				Tough gray silty CLAY, trace sand,
		b			12.6	1.50*		42.0	756.9	silt layers, trace gravel, moist (CL)
		22a	SS	22	13.6	4.0*				
		b			13.2	3.5*				
45		23a	SS	21	12.1	3.25*				Very tough to hard brown-gray to
		b			15.2	4.5*				gray silty CLAY, little sand,
		24a	SS	24	16.6	4.5+*				(sand pockets) trace small to large
		b			16.5	4.5*				gravel, moist (CL)
		25a	SS	25	15.2	4.25*				Occasional thin silt layers;
		b			15.3	4.0*				1" silt seam at 43½'.
50		26a	SS	21	10.3	3.25*				
		b			17.0	3.5*				
		27a	SS	18	17.3	2.75*				
		b			17.5	2.75*				
								54.0	744.9	
55		28a	SS	11						Firm gray SILT with layers of silty (C
		b			17.4					CLAY; some sand, trace gravel, moist M
		29a	SS	22	9.25	4.25*		56.0	742.9	Hard gray very silty CLAY, thin layers
		b			15.6	3.5*		57.5	741.4	of fine SAND 3" layer of SILT at
		30a	SS	22	11.1	4.5+*				56.5', moist (CL-SP-ML)
		b			11.5					
60										Hard gray sandy (fine) CLAY, some coarse sand (silty CLAY at 59¼ to 59 3/4), moist CL
		End of Boring at 60.0 feet								
65										
70										
75										
80										

*Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

PROJECT ...GS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-104 DATE STARTED 8-23-79 DATE COMPLETED 8-23-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 797.1

END OF BORING 737.1

WATER TABLE

AT END OF BORING

24 HOURS

While Drilling - 40.0 feet

SHEET 1 of 2

Distance Below Surface in Feet	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
0	1a	SS	9	25.3			0.5	796.6	Black clayey TOPSOIL
	1b			20.8	3.5*				Very tough to hard brown-gray to brown silty CLAY, trace sand and gravel, silt SEAMS, moist (CL)
	2a	SS	16	16.3	4.5*				
	2b			14.8	4.5*				
5	3a	SS	14	14.9	4.5*				
	3b			15.5	4.5*				
	4a	SS	28	16.3	4.5*				
	4b			16.5	4.5*				
	5a	SS	22	18.3	4.5*				
	5b			19.3	4.5*				
10	6a	SS	21	19.0	4.5+*				
	6b			18.4	4.5+*				
	7a	SS	16	16.8	4.5*		12.0	785.1	
	7b			18.9	4.5*				Hard to very tough gray silty CLAY, trace sand and small to medium gravel, moist (CL)
15	8a	SS	11	19.6	3.5*				
	8b			20.3	3.5*				
	9a	SS	12	19.2	3.25*				
	9b			21.5	3.25*				
	10a	SS	14	20.1	3.5*				
	10b			19.9	3.75*				
20	11a	SS	18	20.2	2.25*				
	11b			19.9	2.0*				
	12a	SS	12	21.6	2.75*				
	12b			20.5	2.5*				
25	13a	SS	15	19.2	2.25*				
	13b			19.0	2.5*				
	14a	SS	12	19.3	2.5*				
	14b			20.8	3.25*				
	15a	SS	12	13.0	2.0*				
	15b								
30							29.5	767.6	
							30.0	767.1	Firm gray clayey fine to medium SAND, little silt, trace gravel, very moist (SC)
	16a	SS	11	13.0	3.0*				
	16b			20.2	2.25*				
	17a	SS	12	17.9	3.0*				
	17b			21.6	2.75*				
35	18a	SS	14	22.1	2.25*				Very tough gray silty CLAY, trace small gravel, some sand, moist (CL)
	18b			24.2	2.25*				
	19a	SS	14	20.2	3.5*				
	19b			20.9	3.75*				(2" layer of silty fine sand at -35 feet)
	20	SS	22	22.2	2.5*				
40									

TESTING SERVICE CORPORATION

DRILL RIG NO. 53 & 72

BORING LOT CONTINUED

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G104 CONT'D DATE STARTED 8-23-79 DATE COMPLETED 8-23-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 797.1

END OF BORING 737.1

WATER TABLE

AT END OF BORING

24 HOURS

While Drilling - 40.0 feet

Distance Below Surface in Feet	Length Recovery	Sample No.	Type	N	WC	Q_u	γ_{DRY}	Depth	Elev.	Soil Descriptions
40		21a	SS	16	11.5	4.5+*		40.5	756.6	Firm gray clayey SILT, little fine sand, moist (ML)
		21b			11.0	4.5+*				
		22a	SS	21	10.4	4.5+*				Hard gray silty CLAY, little sand and small to medium gravel, (sand layer at 42.5) moist (CL)
45		23a	SS	19	16.1	4.5+*				
		23b			19.8	4.5+*		46.0	751.1	
		24a	SS	18	17.6	4.25*				Hard to very tough gray silty CLAY, trace sand and small gravel, moist (CL)
		24b			17.6	3.75*				
		25a	SS	24	15.8	4.5*				
		25b			14.9	4.5*				
50		26a	SS	20	17.8	4.5*				
		26b			20.1	3.75*		50.5	746.6	Layers of gray SILT and silty CLAY, some sand seams, moist (CL) & (ML)
		27a	SS	21	19.8	2.0*				
		27b						53.0	744.1	
55		28	SS	14	17.3	4.5*				Hard to very tough gray silty CLAY, trace sand and gravel, moist (some silt and sand seams) (CL)
		29a	SS	21	17.7	2.75*				
		29b			16.8	3.25*				
		30a	SS	25	17.6	3.0*				
		30b			17.6					
60										
65										
70										
75										
80										

End of Boring at 60.0 feet

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

& MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-105 DATE STARTED 8-23-79 DATE COMPLETED 8-23-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 791.4

END OF BORING 731.4

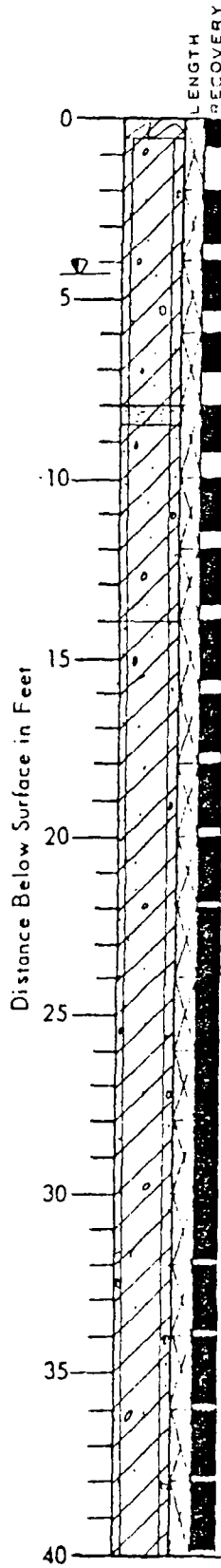
WATER TABLE

AT END OF BORING

24 HOURS

While Drilling - 4.5 feet

SHEET 1 of 2



SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a	SS	6	25.9			0.5	790.9	Black clayey TOPSOIL
1b			21.9					
2a	SS	14	16.0	4.5+*				Very tough to hard brown-gray to to brown silty CLAY, trace sand and small gravel, moist (CL)
2b			16.2	4.5+*				
3a	SS	15	16.4	4.5+*				
3b			21.3	4.5+*				
4a	SS	26	17.9	4.5+*				
4b			16.8	4.5+*				
						8.0	783.4	
5a	SS	21	13.8	3.75*		8.5	782.9	Very tough gray sandy CLAY, trace silt, moist (CL)
5b			16.3	4.5*				
6a	SS	18	13.6	4.5+*				Hard to very tough gray silty CLAY, few thin silt layers, trace sand and gravel, moist (CL)
6b			17.2	4.5+*				
7a	SS	16	19.2	3.5*				
7b			18.6	4.0*				
						14.0	777.4	
8a	SS	12	19.2	2.75*				
8b			18.7	3.25*				
9a	SS	11	19.8	2.50*				
9b			20.0	2.25*				
10a	SS	10	20.2	2.0*				Very tough gray silty CLAY, trace sand and gravel, moist (CL)
10b			18.1	2.0*				
11a	SS	13	20.0	3.0*				
11b			19.2	2.50*				
12a	SS	11	21.3	2.25*				
12b			19.9	2.75*				
13a	SS	15	19.8	2.5*				
13b			19.4	2.5*				
14a	SS	14	19.5	3.0*				
14b			19.5	2.50*				
15a	SS	14	19.0	2.75*				
15b			19.7	2.50*				
16a	SS	11	22.0	2.50*				
16b			21.7	2.50*				
17a	SS	13	21.6	1.75*				
17b			21.2	2.75*				
18a	SS	13	21.6	2.25*				
18b			21.9	2.25*				
19a	SS	16	21.6	2.25*				
19b			22.2	2.75*				
20a	SS	12	22.6	2.75*				
20b			22.3	2.75*				

TESTING SERVICE CORPORATION

DRILL RIG NO. 53 & 72

BORING LOG CONTINUED

PROJECT ...S & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-105 DATE STARTED 8-23-79 DATE COMPLETED 8-23-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 791.4

END OF BORING 731.4

WATER TABLE

AT END OF BORING

24 HOURS

While Drilling - 4.5 Feet

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40		21a	SS	20	21.5	2.75*				Very tough gray silty CLAY, trace sand
		21b			21.8	2.25*		41.5	749.9	and gravel, moist (CL)
		22a	SS	51	15.0	4.5+*		42.0	749.4	Firm gray silty fine SAND, little
		22b			14.0	4.5+*				small gravel, moist (SM)
45		23	SS	50						Hard brown-gray silty CLAY, trace small to medium gravel, moist See NOTE A. (CL)
		24a	SS	36	17.3	4.0*		47.0	744.4	
		24b						47.5	743.9	Dense gray silty fine to medium SAND, little gravel, moist (SM)
		25a	SS	25	16.2	4.5*				
		25b			18.7	4.5*				Hard brown-gray silty CLAY, trace
50		26a	SS	22	18.0	4.5*				small to medium gravel, silt layers,
		26b						51.5	739.9	moist (CL)
		27a	SS	26	15.2	4.5+*		52.0	739.4	Firm brown-gray clayey SILT, little
		27b			15.6	4.5+*				sand, trace small gravel, moist (ML)
55		28a	SS	28	15.1	4.5+*				Hard to very tough gray silty CLAY,
		28b			15.9	4.5+*				little sand, trace small gravel,
		29a	SS	30	14.8	4.5+*				moist (CL)
		29b			19.3	2.5*				
		30b	SS	18	12.7	3.25*		58.5	732.9	Very tough brown-gray silty CLAY,
60										little sand, trace small gravel,
										moist (CL)
		End of Boring at 60.0 Feet								
65										
70										
75										
80										

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

NOTE A: 1½ inch pebble at -43½ feet

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-106 DATE STARTED 8-22-79 DATE COMPLETED 8-22-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 778.2

END OF BORING 733.2

WATER TABLE

AT END OF BORING -14.0 feet

24 HOURS

While drilling -11½ feet

Distance Below Surface in Feet

SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a b	SS	20	30.1 23.3			1.2	777.0	Black clayey TOPSOIL
2a b	SS	13	22.8 22.7	2.75* 3.25*				Tough to very tough brown silty CLAY, trace sand and gravel, moist (CL)
3a b	SS		24.2 22.4	1.75* 1.75*				
4a	SS	21	18.5	2.75*		7.0	771.2	
5	SS	26				9.0	769.2	Firm brown clayey and sandy SILT, little gravel, moist (ML)
6	SS	21	14.5	4.0*		10.0	768.2	Firm gray SILT, trace clay and sand, moist (ML)
7a b	SS	24	17.9 18.4	3.75* 4.25*				Very tough to hard gray silty CLAY, trace sand and gravel, occasional silt seams, (more gravel and cobbles 11½ to 12) moist (CL)
8a b	SS	17	20.6 20.6	2.50* 3.00*				
9a b	SS	20	24.2	2.50*		17.0	761.2	
10	SS	14	15.2	1.0*		17.5	760.7	Firm gray medium to coarse SAND, some small to medium gravel, wet (SW)
11a B	SS	20	10.8 12.0	1.25* 2.50*		20.0	758.2	Tough gray very silt CLAY, some sand and gravel, sand seams, wet (CL)
12a b	SS	17	12.7 11.5	3.0* 3.0*				Very tough to tough gray silty CLAY, (wet sand seams), moist (CL)
13a b	SS	38	25.1	1.50*		25.0	753.2	
14	SS	30	14.6	4.5*		27.5	750.7	Dense to firm gray medium to coarse SAND, layers of clay and sand, wet(SW)
15a b	SS	16	16.6 17.8	4.5* 3.0*				Hard to very tough gray silty CLAY, trace sand and gravel, moist (CL)
16a b	SS	28	20.5 20.3	3.0* 3.0*		31.5	746.7	
17a b	SS	10	16.7	2.25*		33.5	744.7	Firm gray fine to coarse SAND, some gravel, wet (SW)
18	SS	10						Very tough gray silty CLAY, trace sand and gravel, moist (CL)
19a b	SS	21	11.4 11.2	2.75* 2.75*		37.0	741.2	
20a b	SS	21	16.7 12.4	1.25* 1.0*		39.0	739.2	Very tough gray very silty CLAY, trace sand and gravel, moist (CL)
								Firm gray clayey SILT, moist (ML)

TESTING SERVICE CORPORATION

DRILL RIG NO. 53 & 72

BORING LOG CONTINUED

PROJECT ...INGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-106 DATE STARTED 8-22-79 DATE COMPLETED 8-22-79 JOB 16,975

ELEVATIONS

GROUND SURFACE

END OF BORING

WATER TABLE

AT END OF BORING -14.0 feet

24 HOURS

While Drilling -11½ feet

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40		21a	SS	7	16.4	1.25*		41.0	737.2	Very tough gray very silty CLAY, trace sand, moist (CL)
		22a	SS	8	15.6	2.25*		42.5	735.7	Loose gray silty fine SAND, trace gravel, wet (SM)
		b			16.5	3.5*				
		23a	SS	10	16.4	1.5*				Very tough to tough gray silty CLAY, trace sand and gravel, moist (
45		b			16.1	2.0*				
50										
55										
60										
65										
70										
75										
80										

End of Boring at 45.0 feet

*-Approximate unconfined compressio strength based on measurements wi a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G - 107 DATE STARTED 8-16-79 DATE COMPLETED 8-16-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 775.8

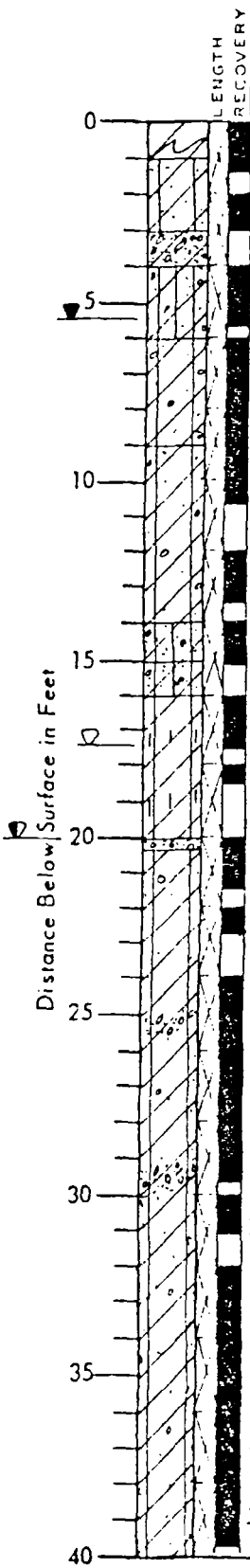
END OF BORING 730.8

WATER TABLE

AT END OF BORING -17½ feet

24 HOURS -5.5 feet (SEE NOTE)

While Drilling - 20 feet



SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a	SS	11	27.6			1.0	774.8	Black clayey TOPSOIL
b			25.6					Very tough brown silty CLAY, trace sand, moist (CL)
2a	SS	23	24.6	3.0*		3.0	772.8	
b						4.0	771.8	Firm small to large GRAVEL and silty GRAVEL (GW-GM)
3a	SS	4	12.2					
b			17.8			6.0	769.8	Very loose brown clayey SILT, little sand, trace gravel, moist (ML)
4a	SS	8	21.8	3.0*				
b			20.5	4.5+*				Very tough to hard brown silty CLAY, trace sand and gravel, moist (CL)
5a	SS	20	18.8	4.5+*		9.0	766.8	
b			17.2	4.5+*				Hard to very tough gray silty CLAY, trace sand and gravel, moist (CL)
6	SS	12	17.4	4.0*				
7a	SS	14	20.1	3.5*				
b			21.1	3.25*				
8a	SS	6	18.0			14.0	761.8	Loose gray clayey SILT, some sand, trace gravel, moist (ML)
b			12.1			15.0	760.8	
9a	SS	7	12.5	2.75*		16.0	759.8	Loose gray sandy SILT, little sand and gravel, trace clay, wet (ML)
b			11.0	3.75*				
10	SS	8	13.4	1.5*				Very tough to tough gray silty CLAY, silt seams, moist (CL)
11a	SS	8				20.0	755.8	Loose gray SAND & GRAVEL, wet (GW)
b			18.4	2.75*		20.25	755.5	
12a	SS	20	15.9	1.5*				
b			18.0	3.5*				
13a	SS	12	19.4	2.25*				Very tough to tough gray silty CLAY, trace sand and gravel, (a few seams of saturated sand and gravel to -32 feet), moist (CL)
b			22.9	2.0*				
14a	SS	20	20.5	2.75*				
b			18.8	2.5*				
15a	SS	22	17.8	2.25*				
b			18.2	2.0*				
16a	SS	16	18.0	3.0*				
b			16.8	2.5*				
17a	SS	19	17.2	2.0*				
b			17.4	3.0*				
18a	SS	10	17.6	2.25*				
b			18.7	2.5*				
19a	SS	12	21.0	1.5*				
b			21.9	2.25*				
20a	SS	17	20.3	1.5*				
b			19.2	2.0*				

DRILL RIG NO. 53 & 72

TESTING SERVICE CORPORATION

BORING LOG CONTINUED

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-107 CONT'D DATE STARTED 8-16-79 DATE COMPLETED 8-16-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 775.8

END OF BORING 730.8

WATER TABLE

AT END OF BORING -17½ feet

24 HOURS -5.5 feet (SEE NOTE)

While Drilling -20 feet

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Q_u	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40		21 a b	SS	17	20.0 13.8	1.75*		41.0	734.8	Tough gray silty CLAY, trace sand and gravel, moist
		22	SS	23	10.4	2.0*				Tough very silty CLAY and clayey SILT, trace sand and gravel, moist (ML-CL)
45		23	SS	15/6"	13.2	1.5*				
			End of Boring at 45.0 feet							
50										
55										
60										
65										
70										
75										
80										

*-Approximate unconfined compressio strength based on measurements wi a calibrated pocket penetrometer.

NOTE: The 24-hour water level observation was made after there had been a heavy rain.

TESTING SERVICE CORPORATION

PROJECT ...GS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-108 DATE STARTED 8-16-79 DATE COMPLETED 8-16-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 782.4

END OF BORING 722.4

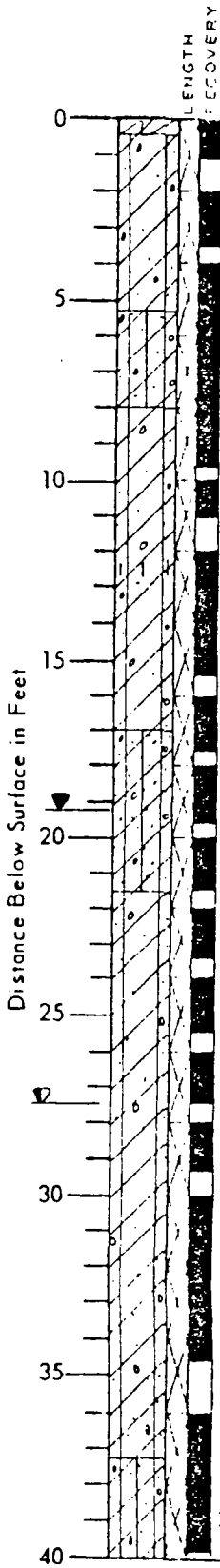
WATER TABLE

AT END OF BORING -54 feet

24 HOURS -19¼ feet

While Drilling -27½ feet

SHEET 1 of 2



SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a	SS	9	22.3			0.5	781.9	Black clayey TOPSOIL
1b			20.6					Very tough to hard brown silty CLAY trace sand and gravel, moist (CL)
2a	SS	11	13.0	3.75*				
2b			13.8	4.5+*				
3a	SS	14	18.8	4.5+*				
						5.75	776.6	
4a	SS	14	10.2					Firm brown clayey SILT, little sand and gravel, moist (ML)
4b			10.7					
						8.0	774.4	
5a	SS	11	16.6	3.5*				Very tough gray silty CLAY, trace sand and gravel, moist (Occasional silt laminations below 11 feet)
5b			18.0	3.75+*				
6a	SS	9	17.2	2.75*				
6b			18.6	3.50*				
7a	SS	10	17.9	3.25*				
7b			19.9	3.25*				
8a	SS	7	20.7	3.0*				
8b			22.7	2.25*				
9a	SS	7	21.5	2.75*				
9b			10.7			17.0	765.4	Loose to very loose gray sandy and clayey SILT, trace gravel, very moist (ML) 3" wet sand seam at 19'9" to 20'0"
10a	SS	3	13.2					
10b			12.6					
11a	SS	6	10.3					
11b			12.5	1.0*		21.5	760.9	
12a	SS	14	11.6	2.5*				Tough to very tough gray silty CLAY, little to trace sand and gravel, moist (CL)
12b			12.0	2.5*				
13a	SS	9	14.3	2.75*				
13b			15.6	2.75*				
14a	SS	10	17.7	1.50*				
14b			17.7	1.50*				
15a	SS	4	18.5	1.50*				
15b			19.0	2.0*				
16a	SS	8	18.0	2.25*				
16b			17.9	2.25*				
17a	SS	10	18.8	1.50*				
17b			18.2	2.25*				
18a	SS	14	18.8	1.50*				
18b			18.2	2.25*				
19a	SS	10	16.4	2.25*				
19b			14.4			37.5	744.9	Firm to loose gray clayey SILT, little sand, trace gravel, moist (ML)
20a	SS	9	12.4					
20b			13.6					

TESTING SERVICE CORPORATION

DRILL RIG NO. 53 & 72

BORING LOG CONTINUED

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-108 DATE STARTED 8-16-79 DATE COMPLETED 8-16-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 782.4

END OF BORING 722.4

WATER TABLE

AT END OF BORING -54 feet

24 HOURS -19¼ feet

While Drilling -27½ feet

SHEET 2 of 2

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40		21a	SS	7	13.7					Firm to loose gray clayey SILT, little sand, trace gravel, moist (ML)
		b			12.9					
		22a	SS	10	12.5					
		b			12.3					
45		23	SS	3/6"	12.4			45.0	737.4	
		24	SS	6/6"	18.6	2.0*				Tough to very tough gray silty CLAY, trace sand and gravel, occasional clayey silt seams, moist (CL)
		25a	SS	14	16.4	1.5*				
		B								
		26a	SS	15	18.7	2.0*				
		b			16.8	2.0*				
50		27a	SS	10	17.2	2.0*				
		b			16.8	2.0*				
		28a	SS	12	20.2	2.0*				
		b			22.4	2.0*				
								54.0	728.4	
55		29a	SS	15	11.9					Firm gray clayey SILT, some sand and gravel, moist (ML)
		b								
		30a	SS	14	11.6					
		b			11.1					
		31a	SS	16	11.6					
		b			11.0					
60										
		End of Boring at 60.0 Feet								
65										
70										
75										
80										

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

PROJECT & MONITORING WELLS, MALLARD LAKE LANDFILL, OUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING C-109 DATE STARTED 8-16-79 DATE COMPLETED 8-16-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 782.2

END OF BORING 737.2

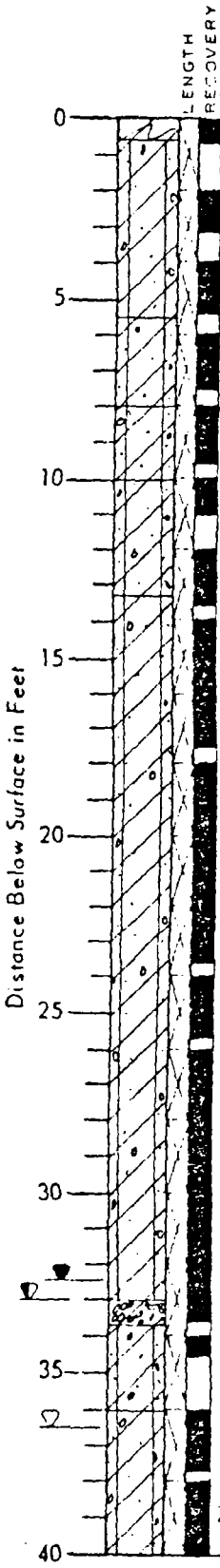
WATER TABLE

AT END OF BORING 36'6"

24 HOURS 32'6"

While Drilling - 33'0"

SHEET 1 of 2



SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a b	SS	6	31.7 17.8			0'8"	781.5	Black clayey TOPSOIL
2a b	SS	9	14.9 15.5					Very tough to hard brown silty CLAY, trace sand and gravel, moist (CL)
3a b	SS	14	17.2 11.5					
4a b	SS	19	10.0 9.0			5.5	776.7	Firm brown SILT, little sand and gravel, trace clay, moist (ML)
5a b	SS	18	17.5 13.3	4.5+* 4.5+*		8.0	774.2	Hard brown silty CLAY, trace sand and gravel, moist (CL)
6a b	SS	14	15.2 16.0	4.25* 3.75*		10.0	772.2	Hard to very tough brown and gray silty CLAY, trace sand and gravel moist (CL)
7a b	SS	9	12.2 11.2	3.0* 1.75*		13.5	768.7	
8a b	SS	7	19.8 21.2	2.25* 2.25*				Tough to very tough gray silty CLAY trace sand & gravel, moist (CL) layer of gray clayey silt from 22½ to 23'; 1" sand and gravel seam at 30'.
9a b	SS	6	20.9 21.6	2.25* 1.50*				
10a b	SS	6	23.5 22.3	2.0* 2.50*				
11a b	SS	8	23.7 22.7	2.50* 3.25*				
12a b	SS	10	23.1 15.1	1.50*				
13a b	SS	7	13.5 13.4	2.75* 2.75*				
14a b	SS	13	11.7 16.2	3.0* 4.5+*				
15a b	SS	14	16.1 17.1	4.0* 3.50*				
16a b	SS	11	13.2 15.8	2.0* 3.50*				
17a b	SS	12	15.8 11.4	1.5*		33.0	749.3	
						33.75	748.5	Firm gray clayey GRAVEL, saturated (C
18	SS	12	14.5	1.5*				Tough to very tough gray silty CLAY, little to some gravel, trace sand (C
19a b	SS	10	18.3 18.5	1.75* 2.25*		36.0	746.3	
20a b	SS	17	13.8 16.0	3.50* 3.50*				Tough to very tough gray silty CLAY trace sand, gravel, moist (CL)

TESTING SERVICE CORPORATION BORING LOG CONTINUED

DRILL RIG NO. 53 & 72

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-109 DATE STARTED 8-16-79 DATE COMPLETED 8-16-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 782.2

END OF BORING 737.2

WATER TABLE

AT END OF BORING 36'6"

24 HOURS 32'6"

While Drilling - 33'0"

SHEET 2 of 2

Distance Below Surface in Feet	LENGTH	RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Q_u	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40			21a	SS	11	14.2	3.0*				Tough to very tough gray silty CLAY trace sand & gravel, moist (CL) occasional sandy silty clay seams and silt seams after 39'
			B			17.1	2.25*				
			22a	SS	11	15.5	2.50*				
			b			15.1	2.00*				
45			23	SS	5/6"	17.3	1.50*				
			End of Boring at 45.0 feet								
50											
55											
60											
65											
70											
75											
80											

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-110 DATE STARTED 8-15-79 DATE COMPLETED 8-15-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 803.5

END OF BORING 758.5

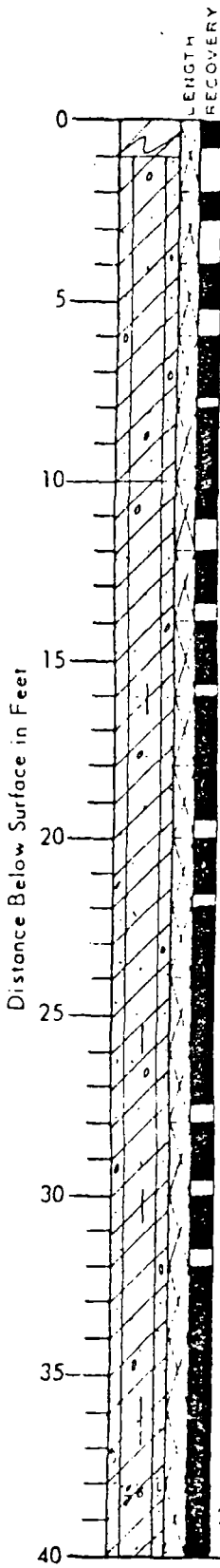
WATER TABLE

AT END OF BORING "Dry"

24 HOURS "Dry"

While Drilling - "Dry"

SHEET 1 of 2



SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a b	SS	6	29.1 25.2			1.0	802.5	Black clayey TOPSOIL
2	SS	18	11.8	4.5*				
3	SS	15	15.3	4.5*				Hard brown silty CLAY, trace sand and gravel, moist (CL)
4	SS	13	15.6	4.5*				
5	SS	17	21.1	4.5*				
						10.0	793.5	
6	SS	13	18.5	3.75*				
7	SS	11	19.3	3.25*				
8	SS	8	20.3	2.75*				Very tough to hard gray silty CLAY trace sand and gravel, moist layer of clayey silt from 16' to 16½'; occasional clayey silt seams after 25'; 1" sand and gravel seam at 38½' (CL)
9a b	SS	7	18.3 19.4	3.0*				
10	SS	8	21.3	2.75*				
11	SS	8	20.5	2.5*				
12	SS	10	20.6	3.25*				
13	SS	8	16.6	3.25*				
14	SS	11	15.8	2.75*				
15	SS	7	17.1	2.5*				
16	SS	8	22.4	3.5*				
17	SS	12	21.1	3.0*				
18	SS	11	24.4	4.25*				
19	SS	11	22.3	3.75*				
20	SS	9	13.5	2.5*				

PROJECT: ...S & MONITORING WELL, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT: FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING: G-110 DATE STARTED: 8-15-79 DATE COMPLETED: 8-15-79 JOB: 16,975

ELEVATIONS

GROUND SURFACE: 803.5

END OF BORING: 758.5

WATER TABLE

AT END OF BORING: "Dry"

24 HOURS: "Dry"

While Drilling - "Dry"

SHEET 2 of 2

Distance Below Surface in Feet	LENGTH	RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40			21	SS	10	13.7	4.0*				Very tough gray silty CLAY, trace sand and gravel, moist (CL)
			22	SS	10	16.9	2.75*				
45			23	SS	7/6"	18.1	2.0*				
					End of Boring at 45 feet						
50											
55											
60											
65											
70											
75											
80											

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

TESTING SERVICE CORPORATION

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-111 DATE STARTED 8-15-79 DATE COMPLETED 8-15-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 807.4

END OF BORING 762.4

WATER TABLE

AT END OF BORING "Dry"

24 HOURS -43'

While Drilling - "Dry"

Distance Below Surface in Feet: 0, 5, 10, 15, 20, 25, 30, 35, 40

SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a	SS	7	46.1					Black clayey TOPSOIL
b			29.1			1.5	805.9	
2	SS	8	18.8	2.50*				Tough to hard brown silty CLAY, trace sand and gravel, moist (CL)
3	SS	8	19.5	2.00*				
4	SS	13	17.8	4.50+*				
						8.0	799.4	
5	SS	18	16.3	4.50+*				Hard to tough gray silty CLAY, trace sand and gravel, moist (CL)
6	SS	10	17.0	4.50+*				
7	SS	15	19.0	3.50*				
8	SS	11	19.8	3.25*				
9	SS	9	20.9	1.75*				
10	SS	8	20.2	2.25*				
11	SS	9	22.0	2.00*				
12	SS	10	20.9	2.75*				
13	SS	10	20.6	2.50*				
14	SS	8	19.6	1.50*				
15	SS	8	20.9	2.25*				
16	SS	9	21.0	2.50*				
17	SS	10	20.0	2.25*				
18	SS	10	21.1	2.75*				
19	SS	7	20.0	2.25*				
20	SS	8	22.3	2.25*				

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-111 DATE STARTED 8-15-79 DATE COMPLETED 8-15-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 807.4

END OF BORING 762.4

WATER TABLE

AT END OF BORING "Dry"

24 HOURS -43'

While Drilling - "Dry"

LENGTH	RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
		21	SS	7	22.5	2.25*				Very tough gray silty CLAY, trace sand and gravel, moist (CL)
		22	SS	17	20.2	2.75*		43.25	764.2	
		23	SS	5/6"	14.4	2.75*		44.0	763.4	Loose layers of sandy SILT and fine to coarse SAND with small gravel, very moist (SW)
										Very tough brownish-gray silty CLAY, trace sand and gravel, moist (CL)

End of Boring at 45.0 feet

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

Distance Below Surface in Feet

60

65

70

75

80

TESTING SERVICE CORPORATION

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-111 DATE STARTED 8-15-79 DATE COMPLETED 8-15-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 807.4

END OF BORING 762.4

WATER TABLE

AT END OF BORING "Dry"

24 HOURS -43'

While Drilling - "Dry"

SAMPLE NO.	TYPE	N	WC	Q_u	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
21	SS	7	22.5	2.25*				Very tough gray silty CLAY, trace sand and gravel, moist (CL)
22	SS	17	20.2	2.75*		43.25	764.2	
23	SS	5/6"	14.4	2.75*		44.0	763.4	Loose layers of sandy SILT and fine to coarse SAND with small gravel, very moist (SW)
								Very tough brownish-gray silty CLAY, trace sand and gravel, moist (CL)

End of Boring at 45.0 feet

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

Distance Below Surface in Feet: 40, 45, 50, 55, 60, 65, 70, 75, 80

TESTING SERVICE CORPORATION

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-112 DATE STARTED 8-17-79 DATE COMPLETED 8-17-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 810.9

END OF BORING 750.9

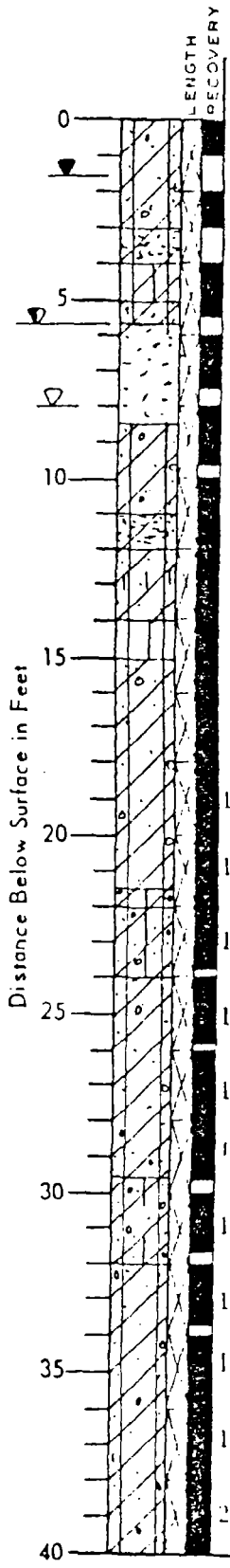
WATER TABLE

AT END OF BORING Caved at -8 feet

24 HOURS -1 3/4' (after rain)

While Drilling -5 3/4' and 55½ feet

SHEET 1 of 2



SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1a	SS	9	21.7					Very tough to hard brown silty CLAY trace sand and gravel, moist (CL)
1b			16.7					
2a	SS	8	21.8	3.5*				
2b			19.0			3.0	807.9	
						4.0	806.9	Loose brown clayey fine to medium SAND, some silt, moist (SC)
3a	SS		14.7			5.0	805.9	
3b			18.5	2.75*		5.5	805.4	Loose firm clayey SILT, moist (ML)
4	SS	7						Very tough brown silty CLAY, trace sand and small gravel, moist (CL)
						8.5	802.4	
5a	SS	12						Loose brown fine to coarse SAND, wet (SW)
5b			18.2	4.0*				
6a	SS	20	23.9	3.0*		11.0	799.9	Very tough brown silty CLAY, trace sand and gravel, moist (CL)
7a	SS	8	15.2	3.0*		12.0	798.9	Firm brown fine to coarse SAND, (S little silt, trace clay, very moist
7b			13.3	3.0*				
						14.0	796.9	
8a	SS	7						Very tough gray silty CLAY, silt seams, trace sand, moist (CL)
8b			16.5	2.5*		15.0	795.9	
9a	SS	12	16.4	3.75*				Loose gray SILT, moist (ML)
9b			17.7	3.5*				
10a	SS	14	18.6	3.75*				Very tough to hard gray silty CLAY, trace sand and gravel, moist (CL)
10b			18.4	4.25*				
11a	SS	16	16.8	4.25*				
11b						21.5	789.4	
						22.0	788.9	Firm gray sandy SILT, trace clay and gravel, very moist (ML)
12a	SS	21	11.9					
12b			10.3			24.0	786.9	Firm gray clayey SILT, little sand, trace gravel, moist (ML)
13a	SS	14	18.8	3.75*				
13b			19.1	4.0*				Very tough to hard gray silty CLAY, trace sand and gravel, moist (CL)
14a	SS	16	14.0	4.0*				
14b			9.3	3.75*				
15a	SS	25	19.2	4.5*				
15b			9.0					
						29.5	781.4	
16a	SS	18	19.1	4.5+*				Alternating layers of clayey SILT, and silty CLAY, silt seams, little sand, trace gravel, moist (CL & ML)
16b			12.4			32.0	778.9	
17a	SS	18	20.6	3.0				
17b			18.8	3.75*				
18a	SS	13	16.1	2.75*				Very tough gray silty CLAY, trace sand and gravel, occasional silt seams, moist (CL)
18b			19.2	3.0*				
19a	SS	14	20.0	2.25*				
19b			19.6	2.75*				
20a	SS	13	22.2	3.25*				
20b			22.4	2.5*				

DRILL RIG NO. 53 & 72

TESTING SERVICE CORPORATION

BORING LOG CONTINUED

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-112 DATE STARTED 8-17-79 DATE COMPLETED 8-17-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 810.9

END OF BORING 750.9

WATER TABLE

AT END OF BORING Caved at -8feet

24 HOURS - 1 3/4' (after rain)

While drilling -5 3/4' and 55½ feet

SHEET 2 of 2

Distance Below Surface in Feet	LENGTH	RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40			21a	SS	15	12.0	3.0*				Very tough gray silty CLAY, trace sand and gravel, occasional silt seams moist (CL)
			21b			20.9	3.0*				
			22a	SS	14	21.3	2.5*				
			22b			21.5	3.0*				
									44.0	766.9	
45			23a	SS	20	12.8	3.0*		45.0	765.9	Very tough gray silty CLAY, sand pockets, moist (CL)
			23b			10.0					
			24	SS	22						Firm gray sandy SILT, some clay, GRAVEL & COBBLES from 47½ to 50 feet (ML) & (GP)
			25	SS	50/4"						
50			26a	SS	11						
			26b			20.4	2.75*		51.0	759.9	Very tough gray silty CLAY, trace sand and gravel, moist (CL)
			27a	SS	20	21.3	2.0*				
			27b			20.7	2.25*				
			28a	SS	25	22.4	2.25*				
55									55.2	755.7	
			29a	SS	16	20.1			56.0	754.9	Firm gray fine to coarse SAND and small to medium GRAVEL wet (SW)
			29b								
			30a	SS	24	15.9	4.5+*		58.0	752.9	Firm gray sandy SILT, little gravel trace gravel, wet (ML)
			30b			15.2	4.5+*				
60											Hard gray silty CLAY, trace sand and gravel, moist (CL)
65			End of Boring at 60.0 feet								
70											
75											
80											

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

NOTE: BOULDERS OR LARGE GRAVEL FOR SAMPLES 24 & 25

PROJECT BORINGS & MONITORING WELLS, MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING G-113 CONT'D DATE STARTED 8-21-79 DATE COMPLETED 8-21-79 JOB 16,975

ELEVATIONS

GROUND SURFACE 803.4

END OF BORING 743.4

WATER TABLE

AT END OF BORING - 6 feet

24 HOURS -5 feet

While Drilling - 9¼ feet

	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
40	21a	SS	17	22.3	2.25*				Very tough gray silty CLAY, trace sand and gravel, moist (CL)
	21b			21.6	2.25*				
	22a	SS	75	21.0	2.25*				
	22b			14.5	4.0*		44.0	759.4	
45	23a	SS	26	11.9	2.5*				Very tough gray silty CLAY, trace sand and gravel, little sand, trace gravel, moist (CL)
	23b			12.8					
	24a	SS	25	14.4	3.0*				
	24b			14.7	2.50+				
	25a	SS	45	13.8	2.75*				
	25b								
50							49.5	753.9	Firm gray SAND, GRAVEL (OR BOULDER) (SW)
	26	SS	50/3"	14.3	3.25*		50.0	753.4	
							50.2	753.2	
	27a	SS	17	18.2	3.0*				
	27b			18.7	2.5*		51.5	751.9	
	28a	SS	26	18.8	2.25*				Very tough gray silty CLAY, trace sand & gravel, moist (CL)
	28b			15.9	3.50*				
									BOULDER
	29a	SS	29	24.9	2.50*				Very tough gray silty CLAY, trace sand and gravel, moist (CL)
	29b			21.7	2.75*				
	30a	SS	26	20.8	3.0*				
	30b			17.5	3.5*				

End of Boring at 60.0 feet

*-Approximate unconfined compression strength based on measurements with a calibrated pocket penetrometer.

NOTE: HIGH BLOW COUNTS FOR SAMPLES 20 & 26 ATTRIBUTED TO LARGE GRAVEL OR BOULDER

PROJECT BORINGS IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N / 8 + 00 E DATE STARTED 9-4-79 DATE COMPLETED 9-6-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 866.9

END OF BORING 781.9

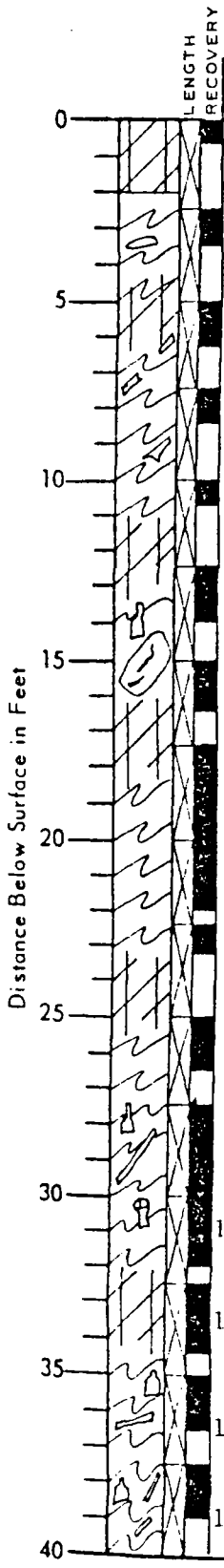
WATER TABLE Dry after taking last sample.

AT END OF BORING

5 MIN: 77' before pulling H.S. auger

After pulling H.S. Auger: 76½' cave dry while drilling: 53'*

*Liquid was sealed off after advancing H.S.



SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	CORE					2.0	864.9	FILL - Brown and gray silty CLAY
2	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass and miscellaneous material; trace silty clay; occasional thin layers of silty clay.
3	CORE							
4	CORE							
5	CORE							
6	CORE							
7	CORE							NOTES: Piece of tire in S - 6. S - 8 was wet and contained ice. 4" - 6" layer of silty clay in S - 9. Hit piece of steel while taking S - 10. Ice in S - 11. Considerable gray silty clay mixed with a little garbage from 27 1/2' - 30' & 32 1/2' - 37 1/2'. Ice in S -13 & S - 14. Pieces of pine tree in S - 14. S - 18 was wet. Encountered liquid at 53'; also encountered considerable gas at this depth. Took liquid sample with bailer after taking S - 22. Considerable gray silty clay in S - 25. Hit something hard, possibly steel, while taking S - 29.
8	CORE							
9a b	CORE							
10	CORE							
11	CORE							
12	CORE							
13a b c	CORE							
14	CORE							
15	CORE							
16	CORE							

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT RINGS IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N, 8 + 00 E DATE STARTED 9-4-79 DATE COMPLETED 9-6-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 866.9

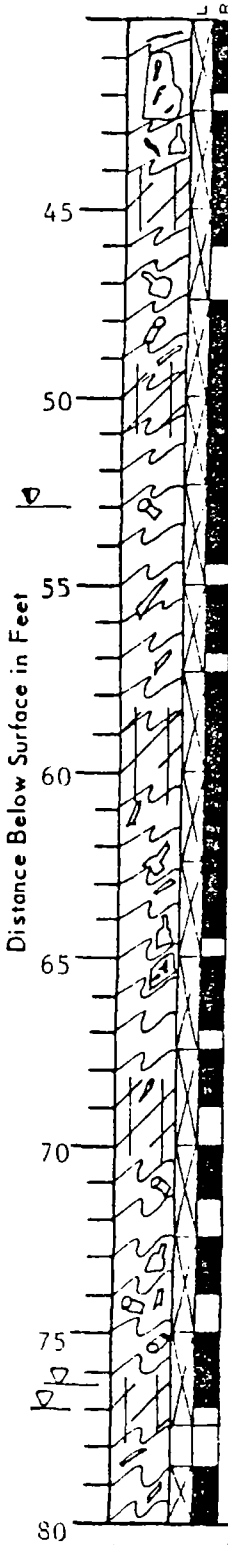
END OF BORING 781.9

WATER TABLE AT END OF BORING Dry after taking last sample.

5 MIN: 77' before pulling H.S. auger

After pulling H.S. Auger: 76½' cave

Liquid was sealed off after advancing H.S. dry while drilling: 53'



SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
17	CORE							
18	CORE							
19	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass and miscellaneous material; trace silty clay; occasional thin layers of silty clay.
20	CORE							
21	CORE							
22**	CORE							
23	CORE							
24	CORE							
25	CORE							
26	CORE							
27	CORE							
28	CORE							
29	CORE							
30	CORE							
31	CORE							
32	CORE							

**Liquid sample also taken

DRILL RIG NO. 53

TESTING SERVICE CORPORATION

PROJECT [illegible] IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N 8 + 00 E DATE STARTED 9-4-79 DATE COMPLETED 9-6-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 866.9

END OF BORING 781.9

WATER TABLE Dry after

AT END OF BORING taking last sample.

5 MIN: 77' before pulling H.S.auger

After pulling H.S. Auger: 76½' cave

dry while drilling: 53'*

*Liquid was sealed off after advancing H.S.

LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
	33	CORE							GARBAGE - Paper, wood cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass and miscellaneous material; trace silty clay; occasional thin layers of silty clay.
	** 34	CORE							
85									

** Liquid sample also taken

End of Boring at 85.0 feet

Distance Below Surface in Feet

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT BORINGS IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N / 12 + 00 E DATE STARTED 9-6-79 DATE COMPLETED 9-12-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 896.6

END OF BORING 786.6

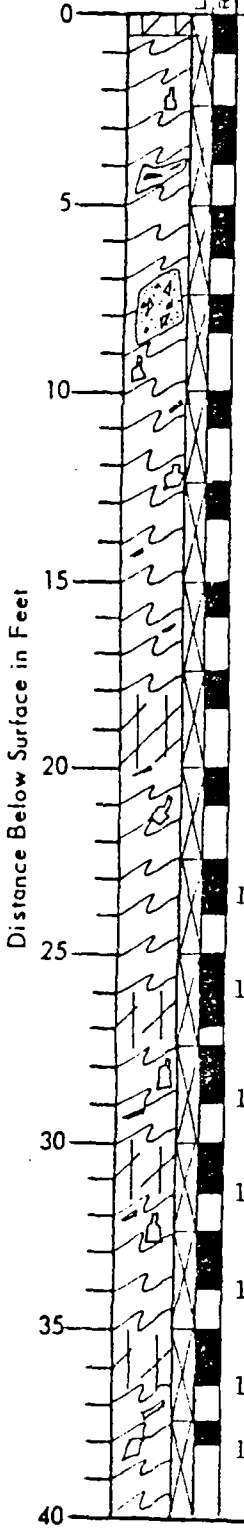
WATER TABLE.

AT END OF BORING DRY

24 HOURS

WHILE DRILLING - DRY***

***With the exception of small amount of liquid encountered in S-32 & 36



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.5	896.1	
	1	CORE							FILL - Brown and gray silty CLAY
	2	CORE							
	3	CORE							
	4	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass & miscellaneous material, trace silty clay: possible septic waste or sludge in some samples; occasional thin layers of silty clay after 40'.
	5	CORE							
	6	CORE							
	7	CORE							NOTES: Encountered large piece of concrete at 8' - had to start new hole. Several more new holes were started due to obstructions that deflected auger. Possible septic waste or sludge in S - 9B. A strong unknown chemical type odor was noted after 15'. Hit obstructio (probably metal) from 52' to 52½'. Observed very small bead-like spheres in S - 23, S - 24 & S - 25; a separate sample was taken. A small amount of liquid was encountered in S - 32 & S - 36. (S - 32 was first sample taken 9/11 and the liquid encountered for this sample may have seeped into the hole overnight). A tar-like substance was noted in S - 33. After taking S - 27, gas began blowing out of the hole with enough force to expel small pieces of paper debris. Drilling was suspended for 1½ hours until the pressure subsided.
	8	CORE							
	9	CORE							
	10	CORE							
	11	CORE							
	12	CORE							
	13	CORE							
	14	CORE							
	15	CORE							
	16	CORE							

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT BORINGS IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL.

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N / 12 + 00 E DATE STARTED 9-6-79 DATE COMPLETED 9-12-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 896.6

END OF BORING 786.6

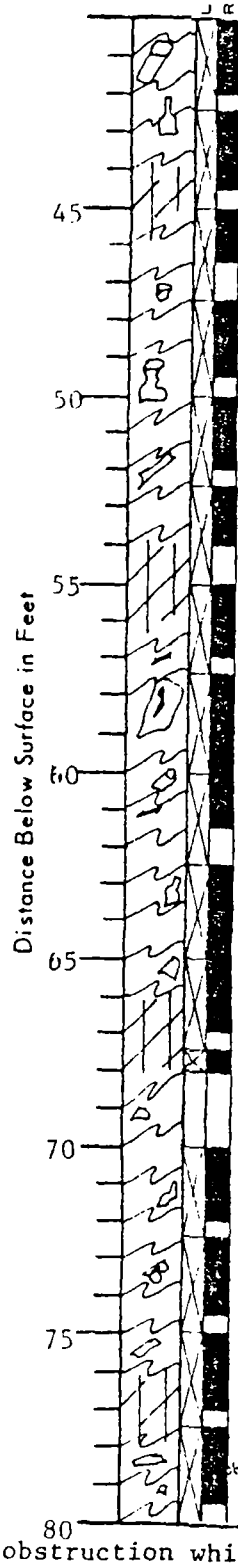
WATER TABLE

AT END OF BORING DRY

24 HOURS

WHILE DRILLING - DRY***

***With the exception of small amount of liquid encountered in S-32 & 36



LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
	17	CORE							
	18	CORE							
	19	CORE							
	20	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass & miscellaneous material, trace silty clay; possible septic waste or sludge in some samples; occasional thin layers of silty clay after 40'
	21	CORE							
	22	CORE							
	23	CORE							
	24	CORE							
	25	CORE							
	26	CORE							
	27	CORE							
	*28	CORE							
	29	CORE							
	30	CORE							
	31	CORE							
	**32	CORE							

*Hit obstruction while sampling - augered through it.

DRILL RIG NO. 53

**Liquid sample taken

TESTING SERVICE CORPORATION

PROJECT BORINGS IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N 12 + 00E DATE STARTED 9-6-79 DATE COMPLETED 9-12-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 896.6

END OF BORING 786.6

WATER TABLE

AT END OF BORING DRY

24 HOURS

WHILE DRILLING - DRY***

***With the exception of small aount of liquid encountered in S-32 & 36

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
		33	CORE							
		34	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass & miscellaneous material trace silty clay; possible septic waste or sludge in some samples; occasional thin layers of silty clay after 40'
85		35	CORE							
		** 36	CORE							
90		37	CORE							
		38	CORE							
95		39	CORE							
		40	CORE							
100		41	CORE							FILL - Gray silty CLAY, trace sand and gravel. The boring was terminated at a depth of 110' rather then 117' due to encountering 10' of clay fill.
		42	CORE							
105		43	CORE							
110										

End of Boring at 110.0 feet

**Liquid sample taken

DRILL RIG NO. 53

TESTING SERVICE CORPORATION

PROJECT BORING IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00N 16 + 00 E DATE STARTED 9-13-79 DATE COMPLETED 9-14-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 883.8*

END OF BORING 776.3

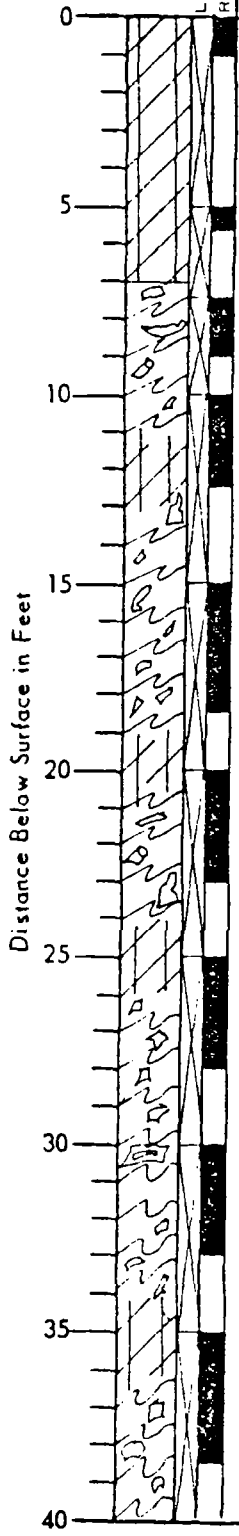
*Elevation corrected due to placement of clay fill.

WATER TABLE

AT END OF BORING DRY

24 HOURS

WHILE DRILLING DRY



SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	CORE							FILL - Brown and gray silty CLAY
2	CORE					7.0	876.8	
3	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass, tires and miscellaneous material; trace silty clay; septic waste or sludge in some samples; occasional silty clay layers (several inches to a little over 1' in thickness; some are mixed with garbage).
4	CORE							
5	CORE							
6	CORE							NOTES: Clay layers were encountered in S - 4A, S - 6A & S - 9. Water and ice was encountered in S - 5. Hit hard object (possibly steel) at 100'. A small amount of gas was blowing out of this hole during and at completion of drilling.
7	CORE							This hole was extended approximately 3' below the planned depth due to placement of clay fill by crawler equipment necessary to permit access with drill rig.
8	CORE							
9	CORE							

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT BORING IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N 16 + 00 E DATE STARTED 9-13-79 DATE COMPLETED 9-14-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 883.8*

END OF BORING 776.3

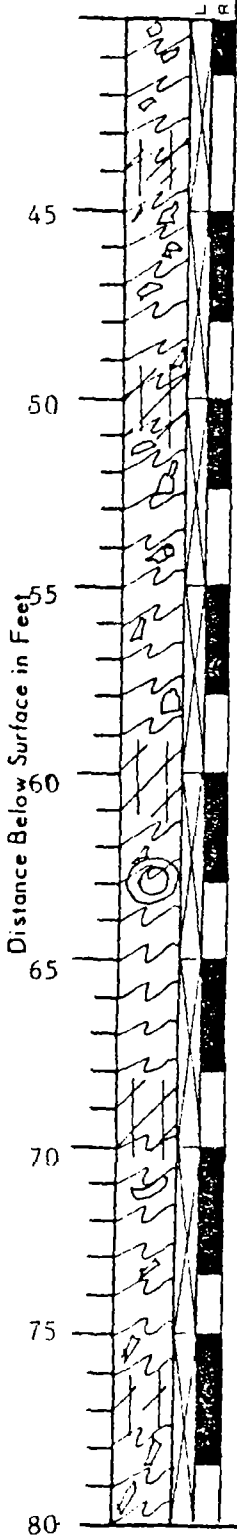
*Elevation corrected due to placement of clay fill.

WATER TABLE

AT END OF BORING DRY

24 HOURS

WHILE DRILLING DRY



LENGTH	RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
		10	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, pieces of metal scrap, plastic, glass, tires and miscellaneous material; trace silty clay; septic waste or sludge in some samples; occasional silty clay layers (several inches to a little over 1" in thickness; some are mixed with garbage).
		11	CORE							
		12	CORE							
		13	CORE							
		14	CORE							
		15	CORE							
		16	CORE							
		17	CORE							

TESTING SERVICE CORPORATION

DRILL RIG NO. 53

PROJECT BORING IN MALLARD LAKE LANDFILL, DU PAGE COUNTY, ILL

CLIENT FOREST PRESERVE DIST. OF DU PAGE COUNTY, 881 W. ST. CHARLES RD., LOMBARD

BORING 12 + 00 N, 16 + 00 E DATE STARTED 9-13-79 DATE COMPLETED 9-14-79 JOB L-16,975

ELEVATIONS

GROUND SURFACE 883.8*

END OF BORING 776.3

*Elevation corrected due to placement of clay fill.

WATER TABLE

AT END OF BORING DRY

24 HOURS

WHILE DRILLING DRY

Distance Below Surface in Feet	LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	γ DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
		18	CORE							GARBAGE - Paper, wood, cardboard, plastic bags with decaying organic material, plastic, glass, tires and miscellaneous material; trace silty clay; septic waster or sludge in some samples; occasional silty clay layers (several inches to a little over 1' in thickness; some are mixed with garbage).
85		19	CORE							
90		20	CORE							
95		21	CORE							
100		22	CORE							
105		23	CORE							
		End of Boring at 107.5 feet								

TESTING SERVICE CORPORATION

DRILL RIG NO. 53