US EPA RECORDS CENTER REGION 5
481463

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

2715 THATCHER AVENUE — RIVER GROVE, ILLINOIS

FILE NO. 1458

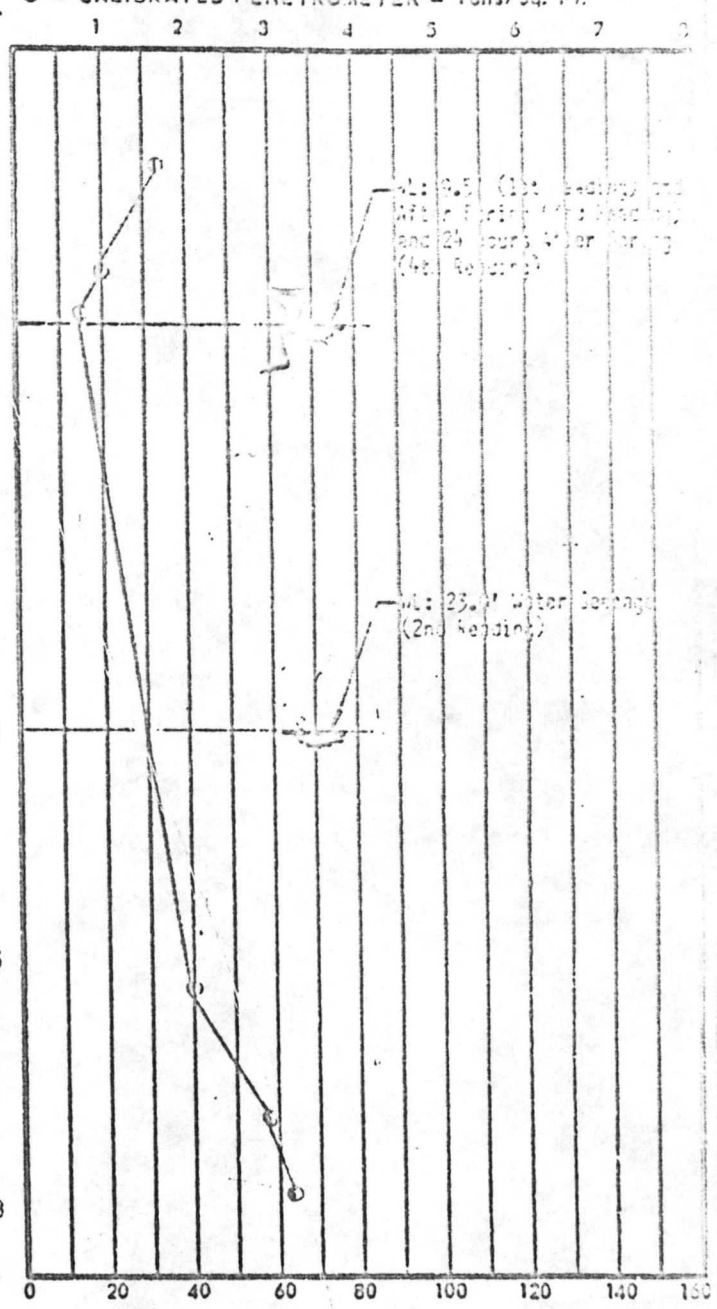
SOIL BORING LOG RECORD SHEET

REPORT NO.	1374	RIG	-52	BORING STARTED	1-15-68	STATION	WASH BORING ☐
BORING NO.	5	FOREMAN	PH	BORING COMPLETED	1-15-68	OFFSET	DRY BORING ☒

O - UNCONFINED COMPRESSIVE STRENGTH - Tons/Sq. Ft.
⊙ - CALIBRATED PENETROMETER - Tons/Sq. Ft.

DEPTH — GROUND SURFACE — ELEV. 726.8

DESCRIPTION OF MATERIAL	S	T	D	ELEV.
General Clayey Fill-Trace to Some Topsoil-Dark Brown & Brown-Tough (Impervious)	1	ST		
"Silt, Sand & Gravel" & "Silt & Clay"-Dark Brown & Brown-Medium Dense (Pervious) (Sand & Silt Layers)	2	ST		716.8
	3	ST		714.3
"Sand & Silt" & "Sand-Some Silt" & "Silt Layers"-Trace to Some Gravel-Dark Brown & Brown-Medium Dense (SC) to (SC) (Pervious)	4	ST		
	5	ST		
	6	ST		
"Silt-Some Sand & Clay" & "Silt-Some Sand"-Trace to Some Gravel-Gray-Medium Dense (SC) (Water Seepage) (Sand Layers) (Pervious)	7	ST		700.8
	8	ST		693.3
"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	9	PA		
	10	ST		673.8
End of Boring				



S - SAMPLE NUMBER
T - TYPE OF SAMPLING
D - SAMPLING DISTANCE
WL - WATER LEVEL

O PENETRATION - Blows/Ft.
⊙ WATER CONTENT - %
DRY DENSITY - Lbs. Cu. Ft.

OWNER: Village of Arlington Heights, Illinois	SCALE: None	SITE: Nichols and Schaeffer Roads, Cook County, Illinois
ARCHITECT - ENGINEER: Novak, Dempsey & Associates, Inc. Quality Control Consultants, Des Plaines, Illinois	BY: vaw	PROJECT NAME: Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

FORM 17-1 REV. 12 65

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

1713 THATCHER AVENUE — RIVER GROVE, ILLINOIS

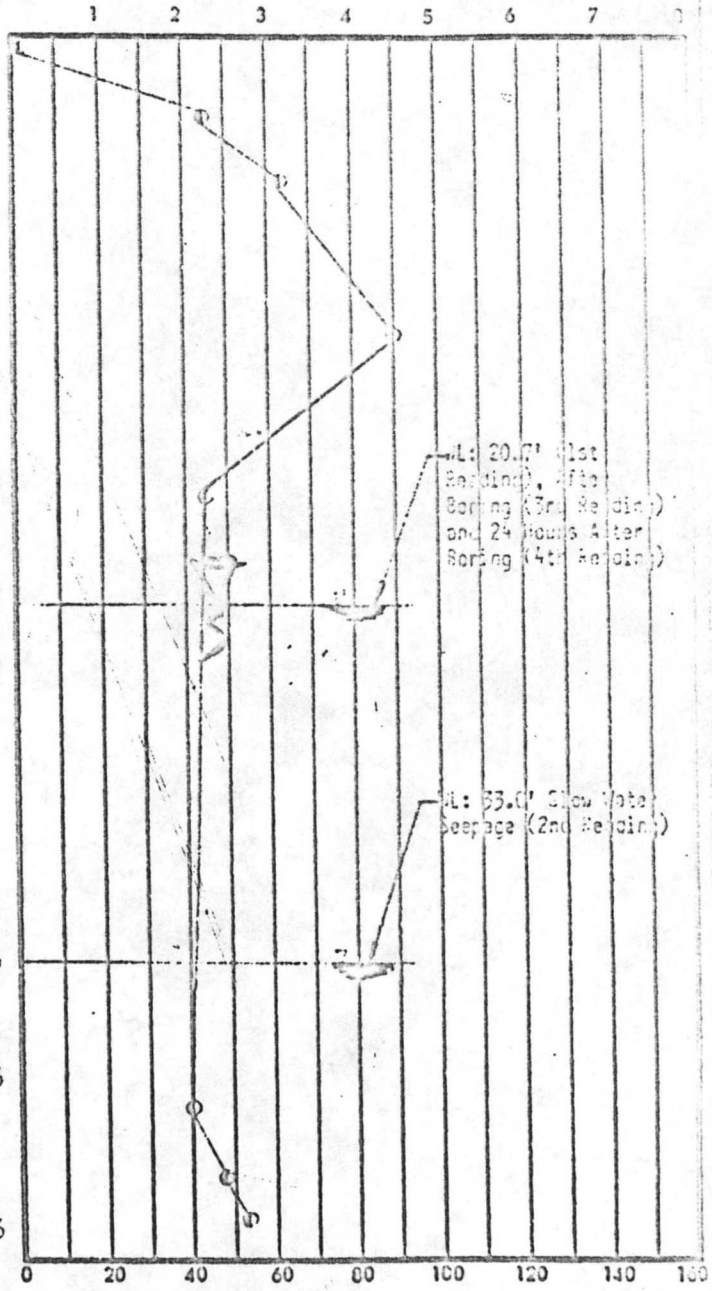
FILE NO. 1458

SOIL BORING LOG RECORD SHEET

REPORT NO.	1374	RIG	-52	BORING STARTED	1-15-68	STATION	WASH BORING ☐
BORING NO.	6	FOREMAN	PC	BORING COMPLETED	1-15-68	OFFSET	DRY BORING ☑

GROUND SURFACE — ELEV. 726.6

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
	Dark Brown Topsoil-Loose (Pervious)				
8.5'	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Brown & Gray and Blue-Very Tough to Hard (Impervious)	1	ST		718.1
		2	ST		
15.5'	"Silt & Clay" & "Silt-Some Clay"-Trace to Some Sand & Gravel-Gray-Medium Dense (Impervious)	3	ST		715.1
20.0'	"Sand & Silt" & "Sand-Some Silt" & "Silt-Some Sand"-Trace to Some Gravel-Gray-Medium Dense (Pervious) (Water Bearing)	4	ST		708.6
20.0'	"Sand-Some Silt & Gravel" & "Sand, Silt & Gravel" & "Silt"-Gray-Medium Dense (Water Bearing) (Pervious)	5	ST		706.6
		6	ST		
33.0'	"Silt-Some Sand" & "Silt & Sand"-Trace of Clay-Gray-Medium Dense (Pervious) (Slow Water Seepage)	7	ST		695.6
38.0'	"Clay-Some Silt" & "Clay & Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	8	ST		690.6
		9	ST		
50.0'	End of Boring	10	ST		678.6



O PENETRATION - Blows/Ft. ⊙ WATER CONTENT - %
× DRY DENSITY - Lbs./Cu. Ft.

S - SAMPLE NUMBER D - SAMPLING DISTANCE
T - TYPE OF SAMPLING WL - WATER LEVEL

OWNER	SCALE:	SITE
Village of Arlington Heights, Illinois	None	Nichols and Schaeffer Roads Cook County, Illinois
ARCHITECT - ENGINEER Novak, Dempsey & Associates, Inc. Quality Control Consultants Des Plaines, Illinois	BY: vaw	PROJECT NAME Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

FORM 17-1 REV. 12/65

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

2713 THATCHER AVENUE — RIVER GROVE, ILLINOIS

FILE NO. 1458

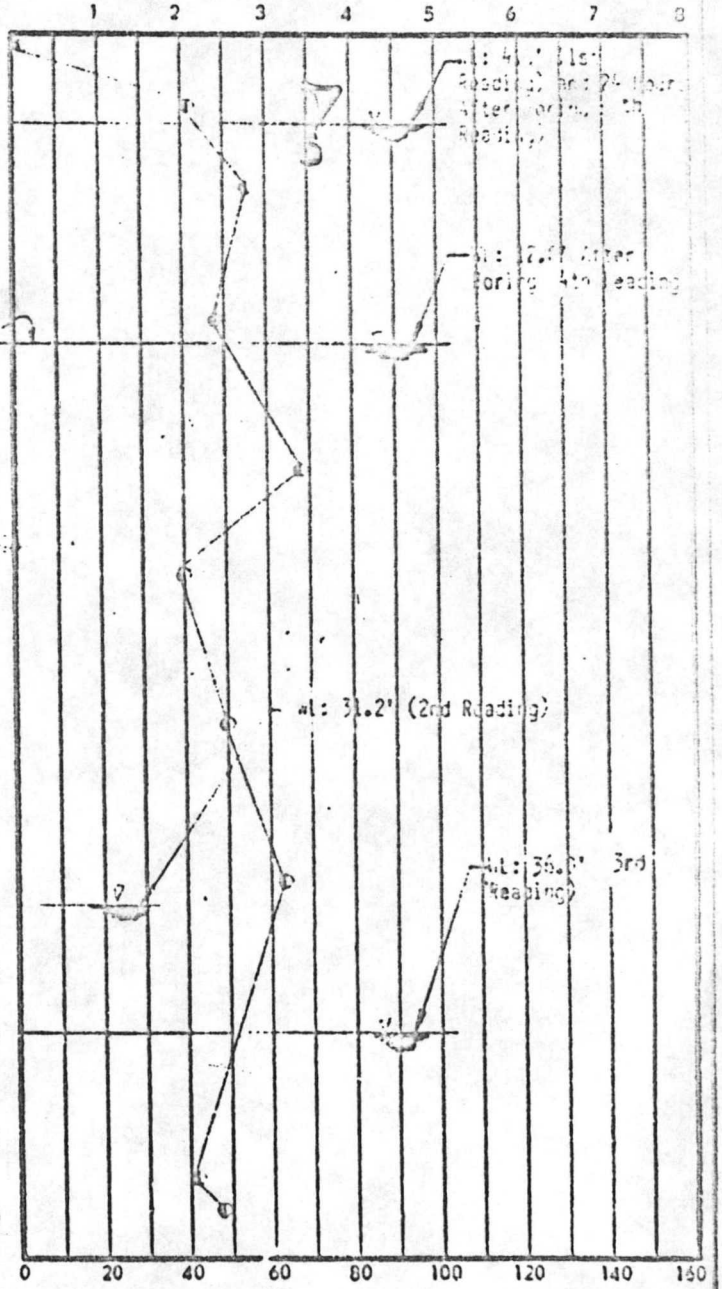
SOIL BORING LOG RECORD SHEET

REPORT NO.	1574	RIG	3-52	BORING STARTED	1-16-68	STATION	WASH BORING ☐
BORING NO.	7	FOREMAN	DJ	BORING COMPLETED	1-17-68	OFFSET	DRY BORING ☑

O - UNCONFINED COMPRESSIVE STRENGTH - Tons/Sq. Ft.
⊙ - CALIBRATED PENETROMETER - Tons/Sq. Ft.

GROUND SURFACE — ELEV. 730.0

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
	Black Topsoil-Loose (Very Dry)	—	PA		
1.0'	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Brown & Gray-Very Tough (Impervious)	1	ST		729.0
4.0'	"Silt & Clay" & "Silt-Some Sand" & "Sand Seams"-Trace to Some Gravel-Brown & Gray-Medium Dense (Water Seepage) (Pervious)	2	ST		726.0
8.5'					721.5
	"Silt & Clay" & "Silt-Some Clay"-Trace to Some Sand & Gravel-Gray-Medium Dense (Impervious)	3	ST		718.0
		4	ST		
16.0'					713.0
	"Clay-Some Silt" & "Clay & Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	5	ST		
		6	ST		
		7	ST		
31.2'	Sand-Some Silt-Trace to Some Gravel-Gray-Medium Dense (Water Bearing) (Pervious)	8	ST		698.8
33.7'	"Sand & Gravel" & "Silt, Sand & Gravel" & "Silt & Clay"-Gray-Brown Dense (Water Bearing) (Pervious) (Mc)	9	ST		696.3
36.0'	"Silt-Some Sand" & "Silt & Sand" & "Sand-Some Silt" & "Sand & Gravel Seams"-Gray-Medium Dense (Water Bearing) (Pervious)	10			694.0
		11	ST		
44.5'	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	12	ST		685.5
50.0'		13	ST		680.0
	End of Boring				



S - SAMPLE NUMBER
T - TYPE OF SAMPLING
D - SAMPLING DISTANCE
WL - WATER LEVEL

O PENETRATION - Blows/Ft.
⊙ WATER CONTENT - %
γ DRY DENSITY - Lbs./Cu. Ft.

OWNER Village of Arlington Heights, Illinois	SCALE: None	SITE Nichols and Schaeffer Roads Cook County, Illinois
ARCHITECT - ENGINEER Novak, Dempsey & Associates, Inc. Quality Control Consultants Des Plaines, Illinois	BY: vaw	PROJECT NAME Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

2715 THATCHER AVENUE — RIVER GROVE, ILLINOIS

FILE NO. 1458

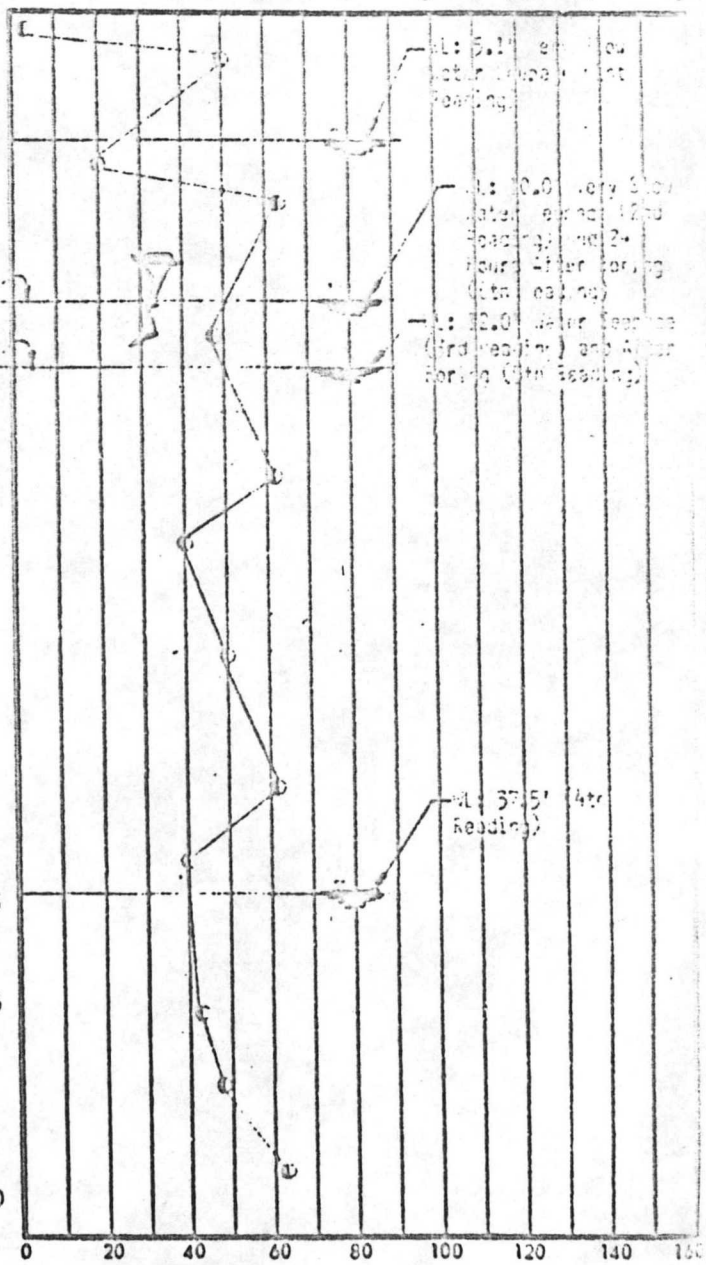
SOIL BORING LOG RECORD SHEET

REPORT NO.	1374	RIG	3-52	BORING STARTED	1-16-[illegible]	STATION	WASH BORING ☐
BORING NO.	5	FOREMAN	[illegible]	BORING COMPLETED	1-1[illegible]-[illegible]	OFFSET	DRY BORING ☒

O - UNCONFINED COMPRESSIVE STRENGTH - Tons/Sq. Ft.
⊕ - CALIBRATED PENETROMETER - Tons/Sq. Ft.

DEPTH — GROUND SURFACE — ELEV. 724.0

Depth	Description of Material	S	T	D	Elev.
0.80'	Dark brown Topsoil-Loose (Pervious)				
1.0'	Clay & Silt-Trace of Sand & Gravel-Brown & Gray-Very Tough (Impervious)	1	[illegible]		723.8
5.1'	Silt-Some Sand & Clay & Silt-Some Sand & Sand Seams-Brown & Gray-Medium Dense (Pervious)	2	ST		727.4
6.4'	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Brown & Gray-Very Tough (Impervious)	3			722.6
8.7'	"Silt & Clay" & "Silt-Some Clay"-Trace to Some Sand & Gravel-Gray-Medium Dense (Impervious) (Water Bearing Silt & Sand Seams at 10.0' and 12.0')	4	ST		720.3
					713.0
					712.0
		5	ST		
17.0'	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	6	ST		712.0
		7	ST		
		8	ST		
		9	ST		
37.5'	"Sand & Gravel-Some Silt" & "Sand-Some Silt" & "Silt-Some Clay" & "Silt"-Gray-Medium Dense (Pervious) (Water Bearing)	10	ST		691.5
40.5'	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	11	ST		688.5
		12	ST		
		13	ST		
50.0'	End of Boring				679.0



S - SAMPLE NUMBER
T - TYPE OF SAMPLING
D - SAMPLING DISTANCE
WL - WATER LEVEL

O PENETRATION - Blows Ft.
⊙ WATER CONTENT - %
× DRY DENSITY - Lbs. Cu. Ft.

OWNER: Village of Arlington Heights, Illinois	SCALE: None	SITE: Nichols and Schaeffer Roads, Cook County, Illinois
ARCHITECT - ENGINEER: Novak, Dempsey & Associates, Inc. Quality Control Consultants, Des Plaines, Illinois	BY: vaw	PROJECT NAME: Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

[illegible] THATCHER AVENUE — RIVER GROVE, ILLINOIS

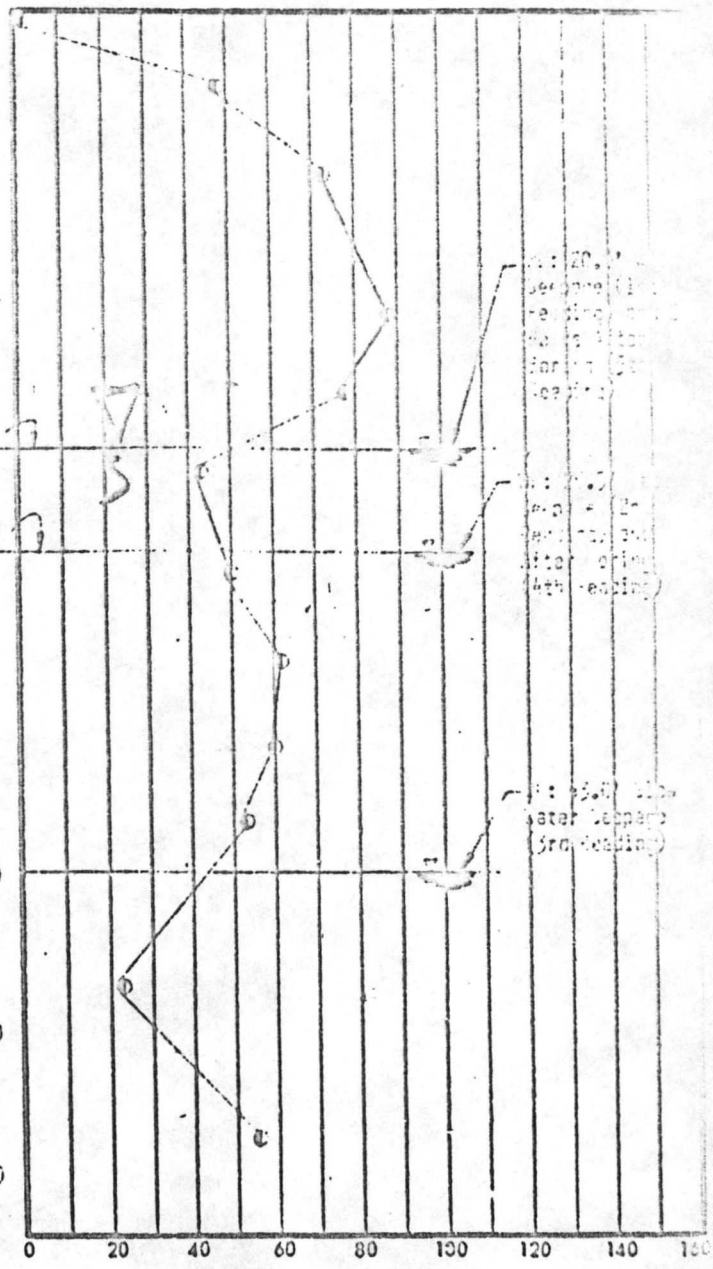
FILE NO. 1458

SOIL BORING LOG RECORD SHEET

REPORT NO.	1574	RIG	[illegible]	BORING STARTED	[illegible]	STATION	WASH BORING ☐
BORING NO.	9	FOREMAN	[illegible]	BORING COMPLETED	[illegible]	OFFSET	DRY BORING ☐

O – UNCONFINED COMPRESSIVE STRENGTH – Tons/Sq. Ft.
⊕ – CALIBRATED PENETROMETER – Tons/Sq. Ft.

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
0.0'	GROUND SURFACE				711.0
	Dark Brown Topsoil-Loose (Pervious)	–	TA		
1.0'					710.0
	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Brown & Gray-Very Tough (Impervious)	1			
		2	ST		
6.5'					702.5
	Silt & Clay-Trace to Some Sand & Gravel-Gray-Dense (Impervious)	3	ST		
12.0'					699.0
		4	ST		
					691.0
	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious) (Water Bearing Silt & Sand Layers at 20.0' and 25.5')	5	ST		
					685.5
		6	ST		
		7	ST		
		8	ST		
		9	ST		
43.0'					668.0
	Silt & Clay-Trace to Some Sand-Trace of Gravel-Gray-Medium Dense (Pervious) (Slow Water Seepage)	10	ST		
47.0'					664.0
	Clay & Silt-Trace of Sand & Gravel-Blue-Very Tough (Impervious) (Water Bearing Silt & Sand Seams)	11	ST		
50.0'	End of Boring				661.0



S – SAMPLE NUMBER
T – TYPE OF SAMPLING
D – SAMPLING DISTANCE
WL – WATER LEVEL

O PENETRATION - Blows/Ft.
⊙ WATER CONTENT - %
γ DRY DENSITY - Lbs./Cu. Ft.

OWNER: Village of Arlington Heights, Illinois	SCALE: None	SITE: Nichols and Schaeffer Roads, Cook County, Illinois
ARCHITECT - ENGINEER: Novak, Deepsey & Associates, Inc., Quality Control Consultants, Des Plaines, Illinois	BY: vaw	PROJECT NAME: Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

2715 THATCHER AVENUE — RIVER GROVE, ILLINOIS

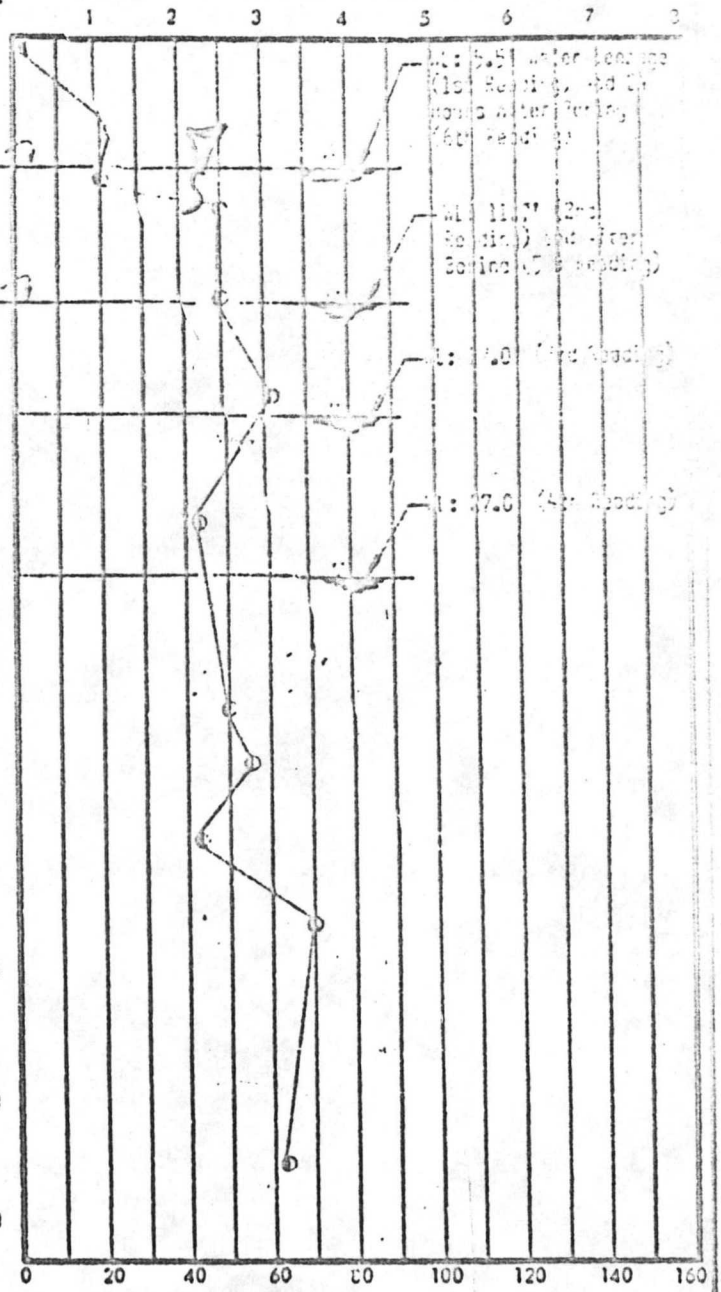
FILE NO. 1458 — SOIL BORING LOG RECORD SHEET

REPORT NO.	1574	RIG	[illegible]-42	BORING STARTED	[illegible]	STATION	WASH BORING ☐
BORING NO.	10	FOREMAN	[illegible]	BORING COMPLETED	[illegible]	OFFSET	DRY BORING ☒

GROUND SURFACE — ELEV. 716.0

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
0.0'	Black Topsoil-Loose (Pervious)	1	[illegible]		
3.5'	Clay & Silt-Trace of Sand & Gravel-Brown, Gray & Black-Tough (Impervious) (Water Bearing Silt & Sand Seams at 5.5')	2	[illegible]		712.7
		3	[illegible]		711.5
9.0'	Clay & Silt-Trace of Sand & Gravel-Brown & Gray-Very Tough (Impervious)	4	[illegible]		709.0
16.2'	Silt & Clay-Trace to Some Sand & Gravel-Gray-Medium Dense (Impervious) (Water Bearing Silt, Sand & Gravel Seams at 11.7')	5	ST		705.3 / 704.3
		6	ST		
19.0'	"Silt & Sand" & "Sand-Some Gravel & Silt" & "Silt"-Gray-Medium Dense (Pervious) (Water Bearing)	7	ST		699.0
21.5'	Clay-Some Silt-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	8	ST		694.5
27.0'	Sand & Gravel-Some Silt-Gray-Medium Dense (Pervious) (NC)	9	ST		689.0
28.5'	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious) (Silt Layers at 42.0' to 47.5')	10	ST		687.5
		11	ST		
		12	ST		
		13	ST		
47.5'	Silt-Some Clay-Trace to Some Sand-Gray-Dense (Impervious)	-			668.5
49.0'	Clay & Silt-Trace of Sand & Gravel-Blue-Very Tough (Impervious)	14	ST		667.0
52.0'	End of Boring				664.0

Q – UNCONFINED COMPRESSIVE STRENGTH – Tons/Sq. Ft.
C – CALIBRATED PENETROMETER – Tons/Sq. Ft.



S – SAMPLE NUMBER
T – TYPE OF SAMPLING
D – SAMPLING DISTANCE
WL – WATER LEVEL

● PENETRATION - Blows/Ft.
⊙ WATER CONTENT - %
× DRY DENSITY - Lbs. Cu. Ft.

OWNER Village of Arlington Heights, Illinois	SCALE: None	SITE Nichols and Schaeffer Roads Cook County, Illinois
ARCHITECT - ENGINEER Novak, Bengsay & Associates, Inc. Quality Control Consultants Des Plaines, Illinois	BY: vaw	PROJECT NAME Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION & FOUNDATION BORINGS

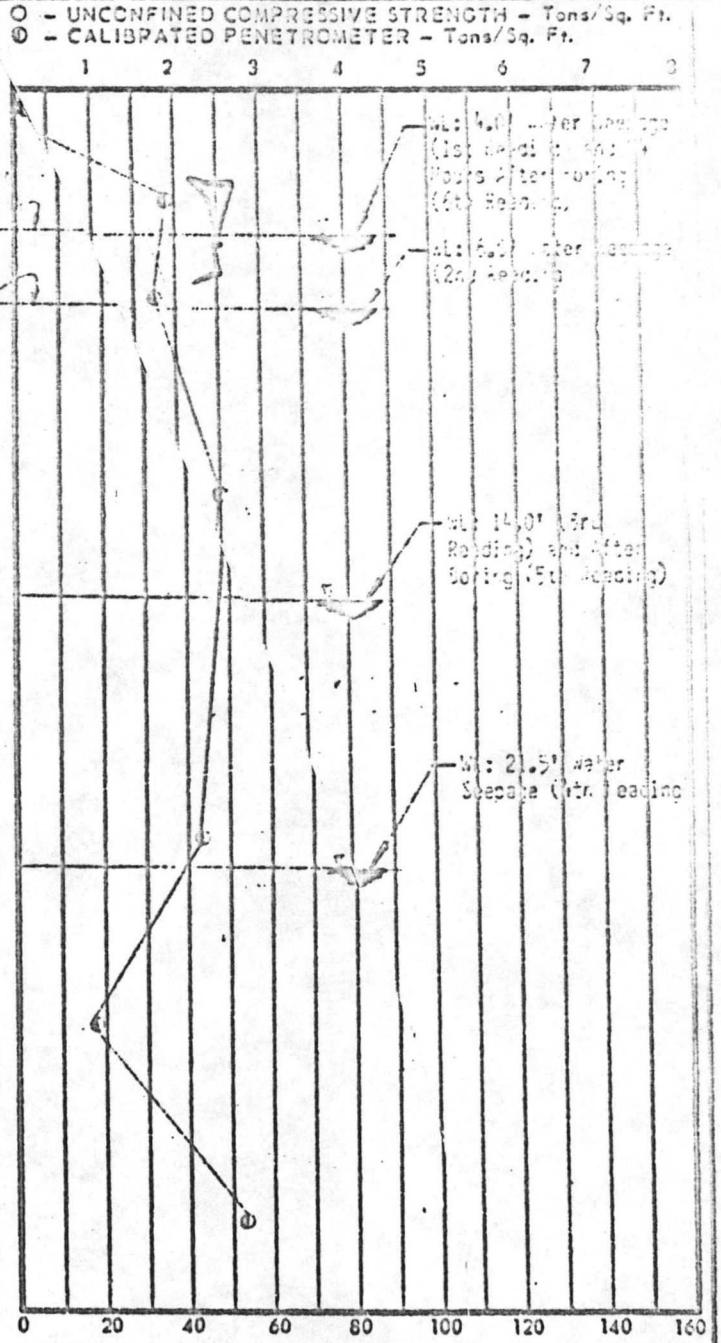
215 THATCHER AVENUE — RIVER GROVE, ILLINOIS

FILE NO. 1458 — SOIL BORING LOG RECORD SHEET

REPORT NO. 1374	RIG 6-52	BORING STARTED 1-1-[illegible]	STATION	WASH BORING ☐
BORING NO. 11	FOREMAN [illegible]	BORING COMPLETED 1-1-[illegible]	OFFSET	DRY BORING ☒

O – UNCONFINED COMPRESSIVE STRENGTH – Tons/Sq. Ft.
⊕ – CALIBRATED PENETROMETER – Tons/Sq. Ft.

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV
	GROUND SURFACE				714.4
	Dark brown Topsoil–Loose (Pervious)	–	PA		
	"Silt & Clay" & "Silt–Some Clay" & "Silt–Some Sand" & "Silt–Some Sand, Clay & Gravel" & "Sand Seams"–Brown & Gray–Medium Dense (Pervious) (Water Seepage)	1	[illegible]		712.4
		2	ST		710.4
		3	ST		708.4
	"Silt & Clay" & "Silt–Some Clay"–Trace to Some Sand & Gravel–Gray–Medium Dense (Impervious)	4	ST		706.4
14.0'	"Silt, Sand & Gravel" & "Sand & Gravel–Some Silt"–Gray–Medium Dense (SC) to (MC) (Pervious) (Water Bearing)	5	ST		700.4
	"Clay & Silt" & "Clay–Some Silt"–Trace of Sand & Gravel–Blue–Very Tough (Impervious)	6	ST		696.9
21.5'	"Silt–Some Sand & Clay" & "Silt–Some Sand" & "Sand Seams"–Gray–Medium Dense (Pervious) (Water Seepage)	7	ST		692.9
26.5'	Clay–Some Silt–Trace of Sand & Gravel–Blue–Very Tough (Impervious)	8	ST		687.9
32.0'	End of Boring				682.4



S – SAMPLE NUMBER
T – TYPE OF SAMPLING
D – SAMPLING DISTANCE
WL – WATER LEVEL

● PENETRATION – Blows/Ft.
⊙ WATER CONTENT – %
× DRY DENSITY – Lbs. Cu. Ft.

OWNER	SCALE:	SITE
Village of Arlington Heights, Illinois	1" = 5'	Nichols and Schaeffer Roads Cook County, Illinois
ARCHITECT – ENGINEER Howard, Dempsey & Associates, Inc. Quality Control Consultants Des Plaines, Illinois	BY: vaw	PROJECT NAME Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

2715 THATCHER AVENUE — RIVER GROVE, ILLINOIS

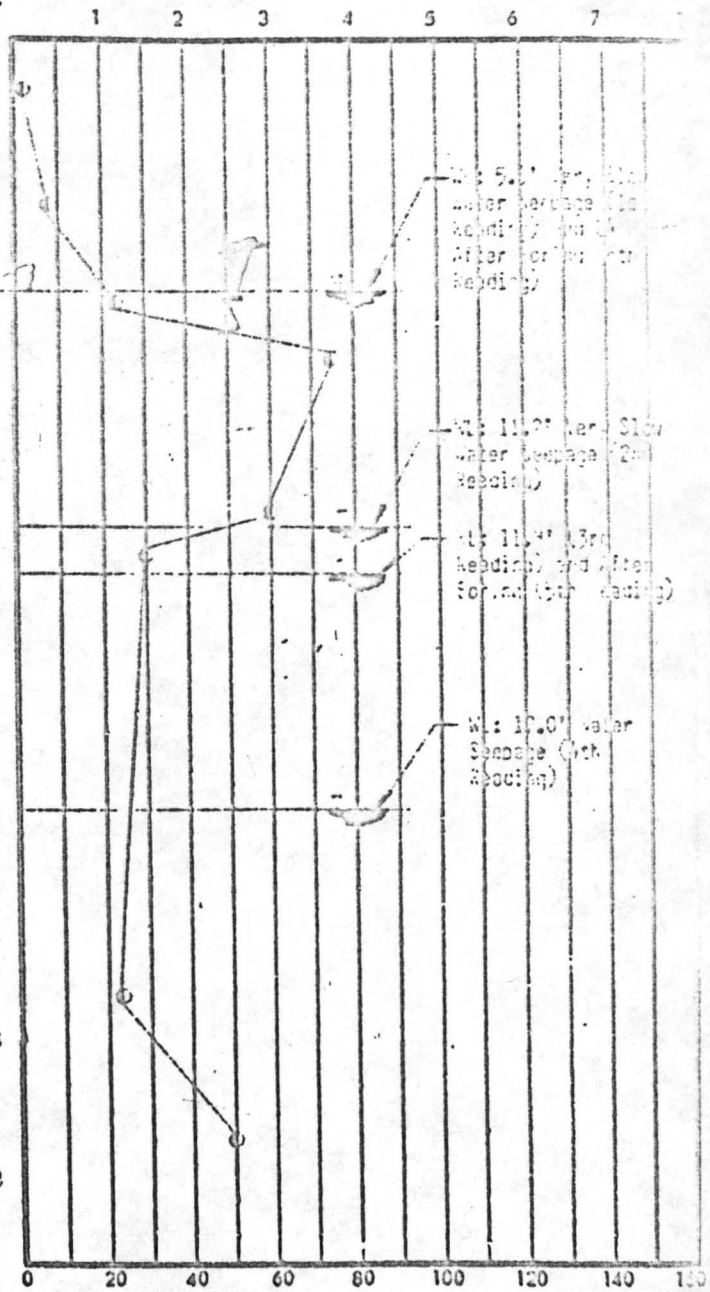
JOB NO. 1458 — SOIL BORING LOG RECORD SHEET

REPORT NO.	1574	RIG	[illegible]-52	BORING STARTED	[illegible]	STATION	WASH BORING ☐
BORING NO.	12	FOREMAN	[illegible]	BORING COMPLETED	[illegible]	OFFSET	DRY BORING ☒

O – UNCONFINED COMPRESSIVE STRENGTH – Tons/Sq. Ft.
⊙ – CALIBRATED PENETROMETER – Tons/Sq. Ft.

GROUND SURFACE — ELEV. 705.4

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
	Black Topsoil–Loose (Pervious)	–	PA		
3.0'	"Clay & Silt" & "Clay–Some Silt"–Trace of Sand & Gravel–Brown, Gray & Black–Soft to Stiff (Impervious) (Water Bearing Silt & Sand Seams at 5.5')	1	ST		705.3
		2	ST		702.3
5.5'	Clay & Silt–Trace of Sand & Gravel–Brown & Gray–Very Tough (Impervious)	3	ST		702.3
8.0'	"Silt & Clay" & "Silt–Some Clay"–Trace to Some Sand & Gravel–Gray–Medium Dense (Impervious)	4	ST		699.9
11.3'	"Silt–Some Sand & Clay" & "Silt & Sand"–Gray–Medium Dense (Slow Water Seepage) (Pervious)	5	ST		697.6
11.8'		6	ST		697.0
	"Sand–Some Gravel & Silt" & "Sand & Gravel–Silt–Some Sand" & "Sand & Silt"–Gray–Medium Dense (SC) to (MC) (Pervious) (Water Bearing)	7	ST		
17.0'	"Silt–Some Sand & Clay" & "Silt–Some Sand"–Gray–Medium Dense (Pervious) (Slow Water Seepage)	8	ST		691.8
22.0'	Clay–Some Silt–Trace of Sand & Gravel–Blue–Very Tough (Impervious)	9	ST		686.8
25.0'	End of Boring				683.8



S – SAMPLE NUMBER — D – SAMPLING DISTANCE
T – TYPE OF SAMPLING — WL – WATER LEVEL

● PENETRATION – Blows/Ft. — ⊙ WATER CONTENT – %
× DRY DENSITY – Lbs. Cu. Ft.

OWNER: Village of Arlington Heights, Illinois	SCALE: 1" = 4'	SITE: Nichols and Schaeffer Roads, Cook County, Illinois
ARCHITECT – ENGINEER: Novak, Lempsey & Associates, Inc., Quality Control Consultants, Des Plaines, Illinois	BY: vaw	PROJECT NAME: Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

2213 THATCHER AVENUE — RIVER GROVE, ILLINOIS

FILE NO. 1458

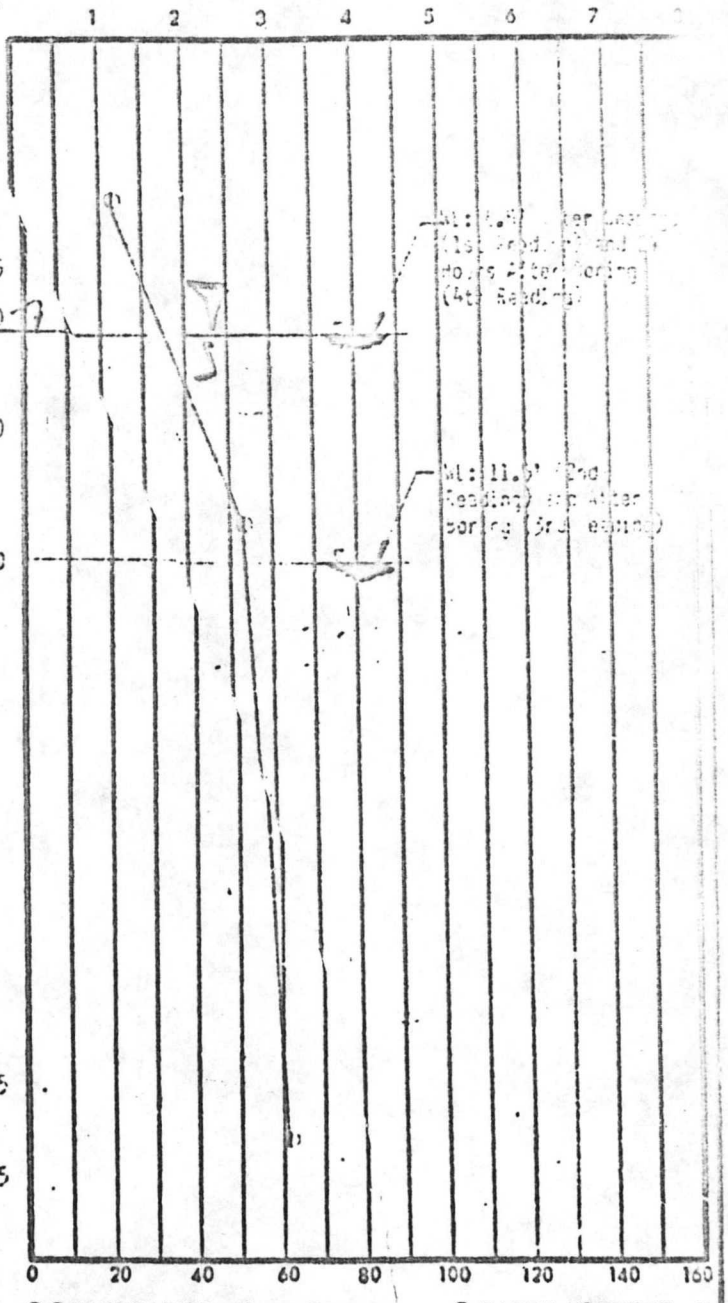
SOIL BORING LOG RECORD SHEET

REPORT NO.	1374	RIG	6-52	BORING STARTED	1-1[illegible]	STATION	WASH BORING ☐
BORING NO.	13	FOREMAN	[illegible]	BORING COMPLETED	1-[illegible]	OFFSET	DRY BORING ☑

O – UNCONFINED COMPRESSIVE STRENGTH – Tons/Sq. Ft.
⊙ – CALIBRATED PENETROMETER – Tons/Sq. Ft.

GROUND SURFACE — ELEV. 713.5

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
	Black Topsoil–Loose (Pervious)	–	PA		
	Silt & Clay–Trace of Sand & Gravel–Dark Brown–Medium Dense (Impervious)	1	ST		711.
	"Silt–Some Sand & Clay" & "Silt–Some Sand & Gravel" & "Silt & Sand" & "Sand & Gravel Seams"–Brown–Medium Dense (MC) to (MC) (Pervious) (Water Bearing)	2	ST		709.5 / 708.0
	"Silt & Clay" & "Silt–Some Clay"–Trace to Some Sand & Gravel–Gray–Medium Dense (Impervious)	3	ST		705.0
		4	ST		702.0
	"Sand–Some Gravel & Silt–Silt & Sand" & "Silt–Some Sand" & "Sand & Gravel"–Gray–Medium Dense (MC) (Pervious) (Water Bearing)	5	ST		
		6	ST		
25.0'	Clay & Silt–Trace of Sand & Gravel–Blue–Very Tough (Impervious)	7	ST		690.5
28.0'	End of Boring				685.5



S – SAMPLE NUMBER
T – TYPE OF SAMPLING
D – SAMPLING DISTANCE
WL – WATER LEVEL.

⊙ PENETRATION – Blows Ft.
⊙ WATER CONTENT – %
• DRY DENSITY – Lbs. Cu. Ft.

OWNER: Village of Arlington Heights, Illinois	SCALE: 1" = 4'	SITE: Nichols and Schaeffer Roads, Cook County, Illinois
ARCHITECT – ENGINEER: Novak, Dempsey & Associates, Inc. Quality Control Consultants Des Plaines, Illinois	BY: VRW	PROJECT NAME: Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

[illegible] THATCHER AVENUE — RIVER GROVE, ILLINOIS

FILE NO. 1458

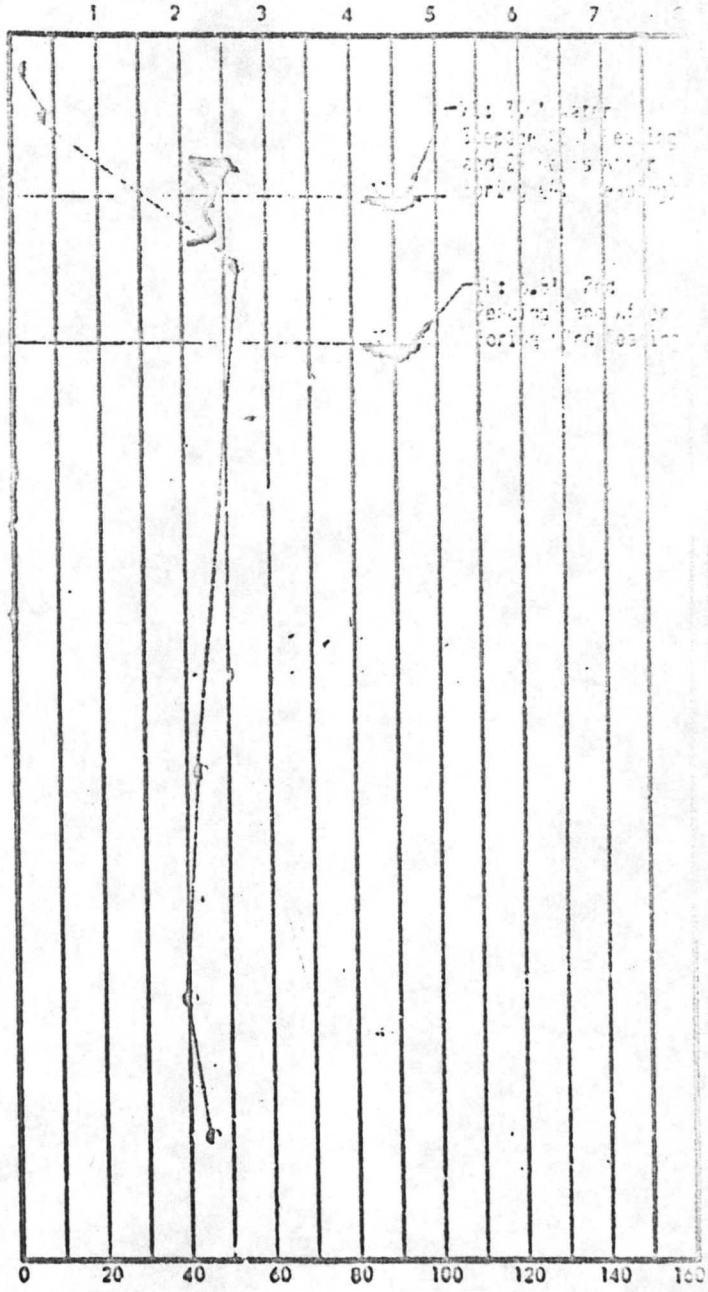
SOIL BORING LOG RECORD SHEET

REPORT NO.	1374	RIG	-52	BORING STARTED	[illegible]	STATION	WASH BORING ☐
BORING NO.	14	FOREMAN	[illegible]	BORING COMPLETED	[illegible]	OFFSET	DRY BORING ☐

O - UNCONFINED COMPRESSIVE STRENGTH - Tons/Sq. Ft.
⊙ - CALIBRATED PENETROMETER - Tons/Sq. Ft.

GROUND SURFACE — ELEV. [illegible]

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
	Black Topsoil-Loose (Pervious)	-	TA		
[illegible]	Silt & Clay-Trace of Sand-Brown-Loose (Impervious)	1	[illegible]		[illegible]
[illegible]	Silt-Some Sand, Clay & Gravel-Brown-Medium Dense (Pervious) (CC) (Water Bearing)	2			[illegible]
[illegible]	Silt & Clay-Trace to Some Sand & Gravel-Gray-Medium Dense (Impervious)	3	ST		498.5
	"Sand-Some Gravel & Silt" & "Sand & Gravel-Silt Seams-Gray-Dense Dense (SW) to (GW) (Pervious) (Water Bearing)	4	ST		497.0
15.2'	Silt & Clay-Trace to Some Sand & Gravel-Gray-Medium Dense (Impervious) (Silt Layers)	5	ST		490.0
[illegible]	"Clay & Silt" & "Clay-Some Silt"-Trace of Sand & Gravel-Blue-Very Tough (Impervious) (Silt Seams)	6	ST		486.5
		7	ST		
29.0'	End of Boring				478.8



S - SAMPLE NUMBER
T - TYPE OF SAMPLING
D - SAMPLING DISTANCE
WL - WATER LEVEL

● PENETRATION - Blows Ft.
⊙ WATER CONTENT - %
× DRY DENSITY - Lbs. Cu. Ft.

OWNER Village of Arlington Heights, Illinois	SCALE: 1" = 4'	SITE Nichols and Schaeffer Roads Cook County, Illinois
ARCHITECT - ENGINEER Novak, Jempsey & Associates, Inc. Quality Control Consultants Des Plaines, Illinois	BY: vaw	PROJECT NAME Proposed Sanitary Land Fill

ILLINOIS DRILLING & TESTING COMPANY

SOIL INVESTIGATION • FOUNDATION BORINGS

2713 THATCHER AVENUE — RIVER GROVE, ILLINOIS

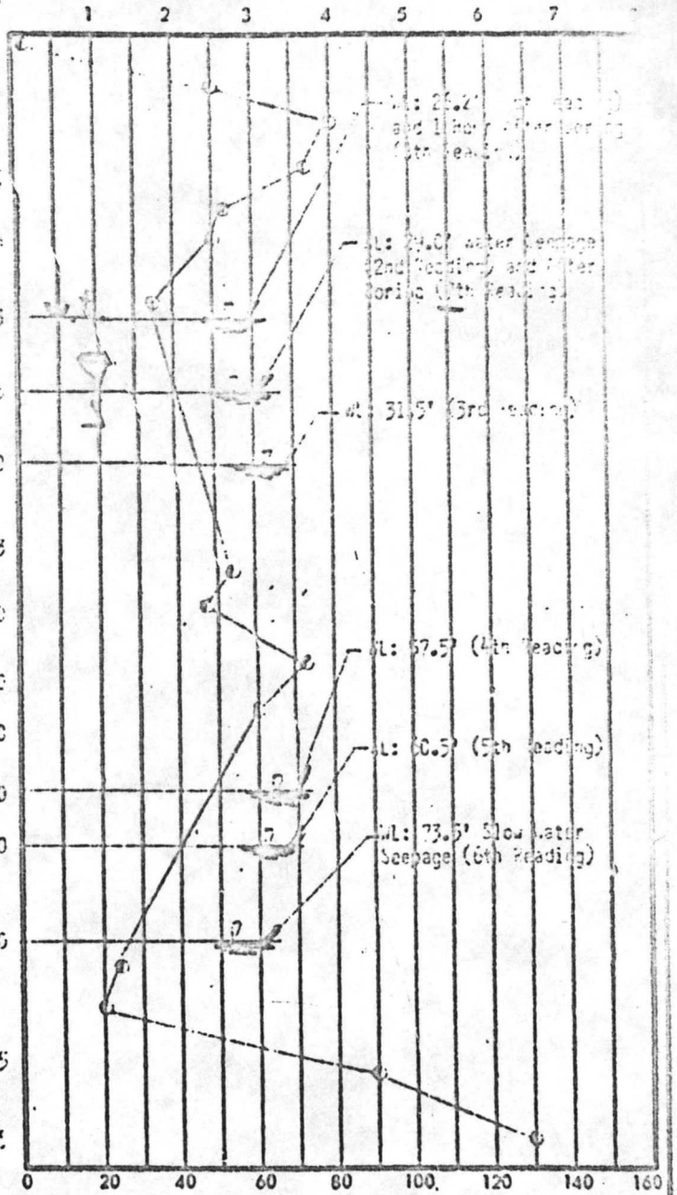
FILE NO. 1458 — SOIL BORING LOG RECORD SHEET

REPORT NO.	1374	RIG	F-52	BORING STARTED	1-1[illegible]	STATION	WASH BORING ☐
BORING NO.	15	FOREMAN	[illegible]	BORING COMPLETED	1-2[illegible]	OFFSET	DRY BORING ☐

O - UNCONFINED COMPRESSIVE STRENGTH - Tons/Sq. Ft.
⊙ - CALIBRATED PENETROMETER - Tons/Sq. Ft.

GROUND SURFACE

DEPTH	DESCRIPTION OF MATERIAL	S	T	D	ELEV.
[illegible]	[illegible] Topsoil—Loose	—	PA		[illegible]
1.0'	"Silt & Clay" & "Silt—Some Clay"—Trace to Some Sand & Gravel—Dark Brown—Medium Dense (Impervious)	1	ST		[illegible]
[illegible]	"Clay & Silt" & "Clay—Some Silt"—Trace of Sand & Gravel—Brown & Gray—Very Tough to Hard (Impervious)	2 3	ST ST		[illegible]
[illegible]	"Clay & Silt" & "Clay—Some Silt"—Trace of Sand & Gravel—Blue—Very Tough (Impervious)	4 5	ST ST		10.5
22.5'	"Silt—Some Sand & Clay" & "Silt—Some Sand" & "Sand Seams"—Trace to Some Gravel—Gray—Medium Dense (Impervious)	6	ST		102.0
[illegible]	"Silt—Some Sand, Clay & Gravel" & "Silt—Some Sand & Gravel" & "Sand & Gravel—Some Silt"—Gray—Medium Dense (Pervious) (SC) to (MC) (Water Bearing)	7	ST		99.5
[illegible]	"Silt—Some Sand & Clay" & "Silt—Some Sand"—Trace to Some Gravel—Gray—Medium Dense (SC) (Water Seepage) (Pervious)	8	ST		95.5
31.5'	"Sand—Some Gravel & Silt" & "Sand & Silt" & "Silt Seams"—Gray—Medium Dense (SC) to (MC) (Water Bearing) (Pervious)	9	ST		93.0
[illegible]	"Clay & Silt" & "Clay—Some Silt"—Trace of Sand & Gravel—Blue—Very Tough (Impervious)	10 11	ST ST		88.5
45.5'	"Silt & Clay" & "Silt—Some Clay"—Trace to Some Sand & Gravel—Gray—Dense (Impervious) (Water Bearing Silt & Sand Seams)	12	ST		79.0
[illegible]	"Clay & Silt" & "Clay—Some Silt"—Trace of Sand & Gravel—Blue—Very Tough (Impervious)	13	ST		76.0
55.5'	"Sand—Some Gravel & Silt" & "Silt & Sand"—Gray—Medium Dense (Pervious) (MC) (Water Bearing)	14	ST		69.0
[illegible]	Silt & Clay—Trace of Sand & Gravel—Gray—Medium Dense (Impervious)	—	PA		67.0
[illegible]	"Sand—Some Silt" & "Sand & Silt" & "Silt—Some Sand" & "Sand & Gravel Seams"—Gray—Medium Dense (Water Bearing) (Pervious) (Silt & Clay Layers) (SC) to (MC)	15 16 17	ST ST ST		64.0
73.5'	"Silt—Some Sand & Clay" & "Silt—Some Clay" & "Silt—Some Sand" & "Sand Seams"—Gray—Medium Dense (Pervious) to (Impervious) (Very Slow Water Seepage) (Sand & Gravel Seams)	18 19 20	ST ST ST		51.0
81.0'	"Silt & Clay" & "Silt—Some Clay"—Trace to Some Sand & Gravel—Gray—Very Dense (Impervious) (Sand & Gravel Seams)	21 22	ST ST		33.5
[illegible]	End of Boring				24.5



S - SAMPLE NUMBER
T - TYPE OF SAMPLING
D - SAMPLING DISTANCE
WL - WATER LEVEL

● PENETRATION - Blows/Ft.
⊙ WATER CONTENT - %
× DRY DENSITY - Lbs. Cu. Ft.

OWNER Village of Arlington Heights, Illinois		SCALE: None	SITE Nichols and Schaeffer Roads Cook County, Illinois
ARCHITECT - ENGINEER Novak, Dempsey & Associates, Inc. Quality Control Consultants Des Plaines, Illinois		BY: [illegible]	PROJECT NAME Proposed Sanitary Land Fill

STATE OF ILLINOIS
DEPARTMENT OF
REGISTRATION AND
EDUCATION
JOHN C. WATSON
DIRECTOR, SPRINGFIELD
BOARD OF NATURAL
RESOURCES AND
CONSERVATION
CHAIRMAN JOHN C. WATSON
GEOLOGY LAWRENCE L. SKELTON
CHEMISTRY ROGER ADAMS
ENGINEERING ROBERT H. ANDERSON
BIOLOGY THOMAS PARK
FORESTRY CHARLES E. OLMSTED
UNIVERSITY OF ILLINOIS
DEAN WILLIAM L. EVERITT
SOUTHERN ILLINOIS UNIVERSITY
PRESIDENT DELYTE W. MORRIS

ILLINOIS STATE GEOLOGICAL SURVEY

JOHN C. FRYE, CHIEF

115 South Washington Street
Naperville, Illinois 60540

February 22, 1968

RECEIVED
FEB 2 1968

Mr. Clarence W. Klassen
Chief Sanitary Engineer
Department of Public Health
Springfield, Illinois 62706

Dear Mr. Klassen:

This is in reply to your letter of February 14, 1968, directed to Dr. John C. Frye, requesting a description of the geologic conditions at a proposed landfill site for the Village of Arlington Heights, in the NE¼ of the SW¼ section 6, T42N R11E, Cook County, Illinois.

Enclosed is a copy of a report prepared by the Geological Survey for the Northeastern Illinois Planning Commission on June 6, 1966. This report describes the regional geologic conditions in that area from information available at the time. The following supplemental information is based on eleven soil boring logs (nos. 5 to 15 incl.) made by Illinois Drilling and Testing Company, which were sent to us by the Village of Arlington Heights.

These soil borings show that materials in the glacial drift, to a depth of 100 feet, are quite variable, consisting mainly of silty clay (probably till) interbedded with silts and sands. Correlation of units in this type of deposit is not always reliable, however, they indicate that a silty clay till, with low permeability, is present at a depth of 30-35 feet on the eastern side of the site, and at a depth of 20-25 feet on the western side. This unit seems to be continuous and is approximately 9 feet thick in the northern part of this site (boring #15). The sands and silts which are interbedded with the clays, above this silty clay till are variable in texture. They are not extensive enough to appear on our regional

maps and would probably not be considered a useful source of water in this area.

Based on experience in other parts of northeastern Illinois, and assuming that the silty clay till discussed above is continuous, we would expect that most of the ground water moving away from this site would travel through the shallow sands northward towards Buffalo Creek.

In summary, the near surface sands and silts present at this site are probably not extensive or permeable enough to be considered for water supply purposes, however, they could allow the migration of leachate from the disposal site.

Yours truly,

George Hughes

George M. Hughes
Assistant Geologist
Northeastern Illinois Office
Section of Groundwater Geology
and Geophysical Exploration

encl.

cc: Mr. Benn Leland
State Sanitary Board

Cook County Health Dept.

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

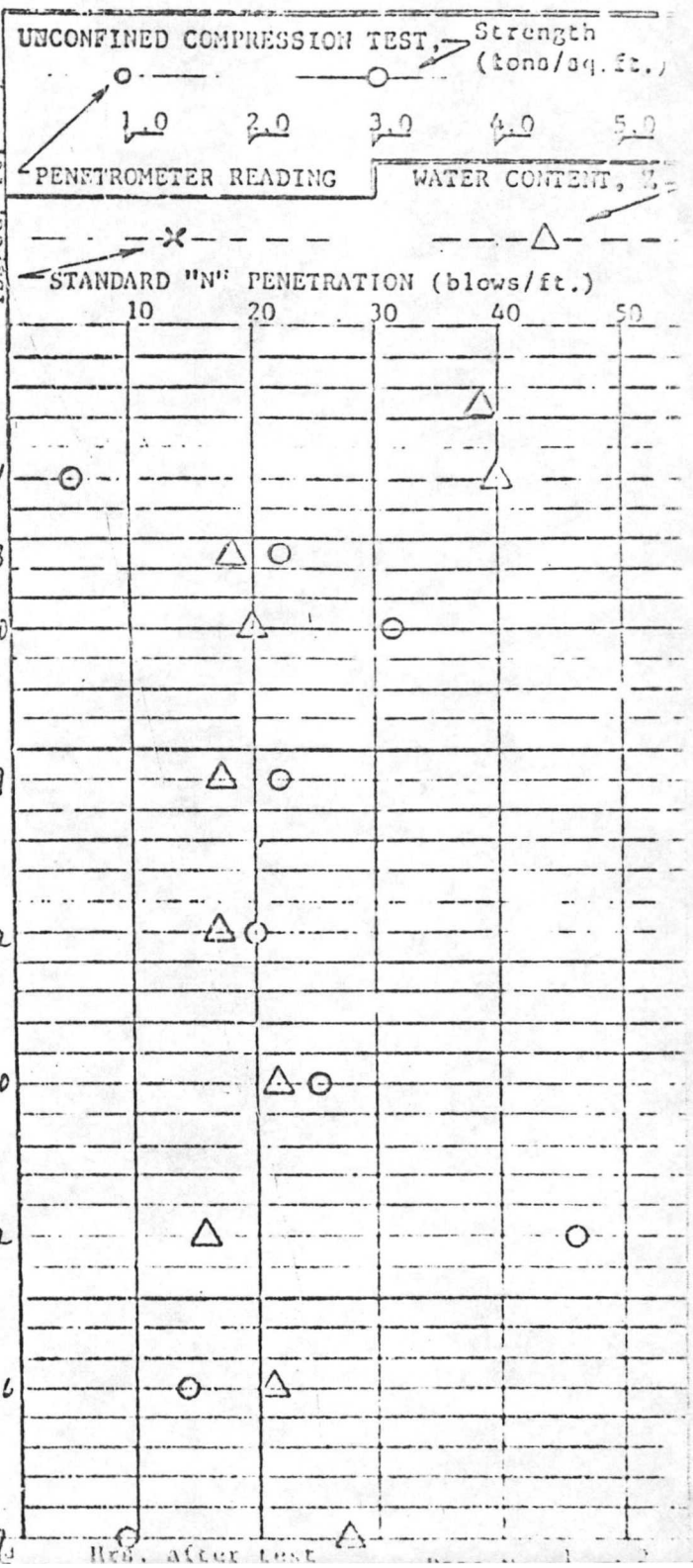
1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 1
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/1/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth (ft.)	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Black topsoil, some clay, soft	
				95.1
			Brown-gray clay, some silt and sand	
			Gray clay and sand, some silt, trace gravel, damp, very tough	107.3
10.0				105.0
15.0				112.9
20.0				114.2
			Gray-brown clay, some silt and sand, trace gravel	
25.0			Gray clay, some silt and sand, trace gravel, very tough	109.0
			Gray clay, some silt and sand, trace gravel, hard	
30.0				111.2
			Gray clay, some silt and sand, trace gravel, tough	
35.0				100.6
40.0				98.7



Weather Conditions: Water Level 3' Hrs. after test

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1332 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 1 cont'd.
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/1/71 By: TK
Equipt. Used: CME Drill
Comments:

Depth (ft.)	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Gray clay, some silt and sand, trace gravel, stiff	
45.0			Gray clay, some silt and sand, trace gravel, tough	106.8
51.0			Gray-brown silt and sand, dense	
			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING

WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 2
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/1/71 By: JK
Equipt. Used: CME Drill
Comments:

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.) — 1.0, 2.0, 3.0, 4.0, 5.0
PENETROMETER READING
WATER CONTENT, %
STANDARD "N" PENETRATION (blows/ft.) — 10, 20, 30, 40, 50

Depth (ft.)	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Black topsoil (24")	
			Brown clay, some silt and sand, trace gravel, very tough	100.1
5.0			Brown clay, some silt and sand, trace gravel, tough	94.3
			Gray-brown clay, some silt and sand, trace gravel, very tough	112.0
10.0			Gray clay, some silt and sand, trace gravel, very tough	116.0
15.0				117.7
20.0			Gray clay and sand, some coarse gravel, trace silt, very tough	112.1
25.0				119.1
30.0				107.7
35.0			Gray clay and sand, some coarse gravel, trace silt, hard	112.6
40.0				102.7

Remarks (conditions): Water level at 4.24 Has filter [illegible]

NOVAK DEMPSEY & ASSOCIATES, INC.

Quality Control Consulta...a

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 2 cont'd.
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/1/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, Ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
5			Gray clay and sand, some coarse gravel, trace, very tough	112.2
10			Gray clay and sand, some coarse gravel, trace silt, tough	115.0
			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.)
1.0 2.0 3.0 4.0 5.0
PENETROMETER READING
WATER CONTENT, %
STANDARD "N" PENETRATION (blows/ft.)
10 20 30 40 50

Weather Conditions: Water Level 5' @ 24 Hrs. after test

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1032 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 3
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/2/71 By: JK
Equipt. Used: CME Drill
Comments:

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.) — 1.0, 2.0, 3.0, 4.0, 5.0

PENETROMETER READING — WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.) — 10, 20, 30, 40, 50

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Black topsoil (36")	
5.0			Brown clay, some topsoil, stiff	97.7
			Brown clay, some silt and sand, trace gravel	112.9
10.0			Gray clay, some silt and sand, trace gravel, very tough	117.2
15.0				120.9
20.0			Gray clay, some silt and sand, trace gravel, tough	103.3
25.0			Gray clay, some silt and sand, trace gravel, very tough	111.2
30.0				111.5
35.0				107.1
40.0			Gray clay and silt, trace fine sand, hard	103.3

Weather Conditions: Water Level 8' @ ___ Hrs. after test

NOVAK DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 3 cont'd.
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/2/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, (ft.)	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Gray clay and silt, trace fine sand, hard	
			Gray clay and silt, some sand, stiff	110.6
				102.1
			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING

WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

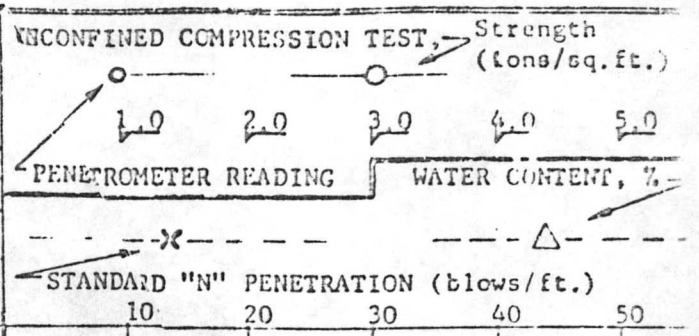
1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 4
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/2/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, Ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Black topsoil (2")	
5.0			Brown clay, some silt and sand, trace gravel, very tough	99.0
				101.1
				109.6
10.0			Gray clay, some silt and sand, trace gravel, very tough	107.2
15.0				115.4
20.0				
25.0			Coarse gray sand and gravel, wet, dense	
30				
35			Sand and gravel, some gray clay, dense	
40.0			Sand and gravel, some gray clay, medium dense	



NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 4 cont'd.
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj.No. 3140 Date: 3/2/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Sand and gravel, some gray clay, medium dense	
51.0			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING | WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

Weather Conditions: Water Level ____ @ ____ Hrs. after test

NOVAK DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 5
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj.No. 3140 Date: 3/9/71 By: JK
Equipt. Used: CME Drill
Comments:

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.) — 1.0, 2.0, 3.0, 4.0, 5.0
PENETROMETER READING — WATER CONTENT, %
STANDARD "N" PENETRATION (blows/ft.) — 10, 20, 30, 40, 50

Depth (ft.)	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Black topsoil (18")	
			Brown sand and gravel, some clay, damp, medium dense	
10.0			Gray clay and silt, some gravel, trace sand, very tough	
15.0				125.5
20.0			Gray clay and silt, some gravel, trace sand, tough	118.3
25.0			Gray sand and gravel, some clay, medium dense	
30.0				
35.0				
40.0			Gray clay, sand and gravel, hard	

Weather Conditions: Water Level 7' @ Hrs. after test

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1502 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 5 cont'd.
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj.No. 3140 Date: 3/9/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Gray clay, sand and gravel, hard	
45.0				
50.0				
51.0			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING

WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

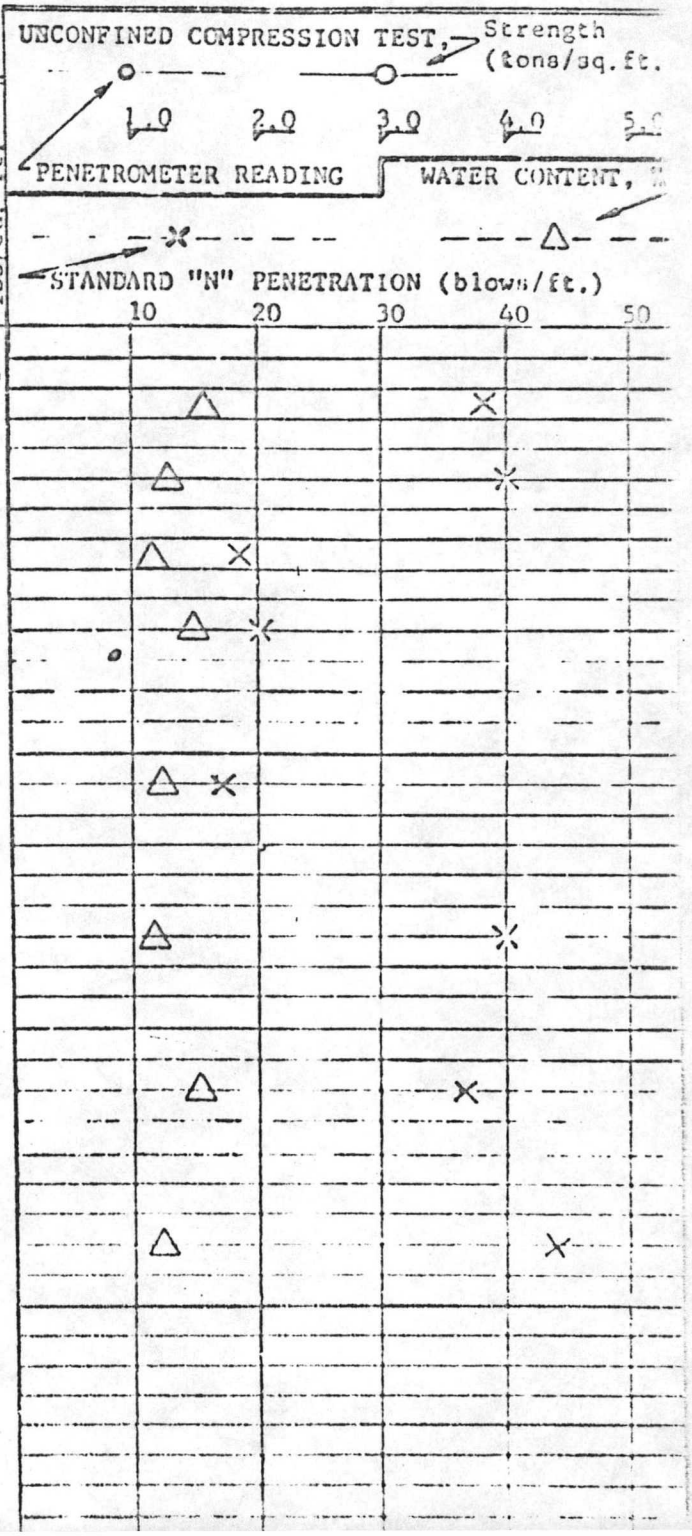
1202 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 6
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir Phase I

Proj. No. 3140 Date: 3/5/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Black topsoil (3")	
			Brown sand and gravel, some clay and silt, dense	
5.0				
			Brown sand and gravel, some clay and silt, medium dense	
10.0				
15.0				
			Gray silt and gravel, some clay, dense	
20.0				
25.0				
			Brown sand and gravel, some silt, trace clay, dense	
30.0				
33.0			Rock or obstacle	
			End of Boring	



NOVAK, DEMPSEY & ASSOCIATES, INC

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

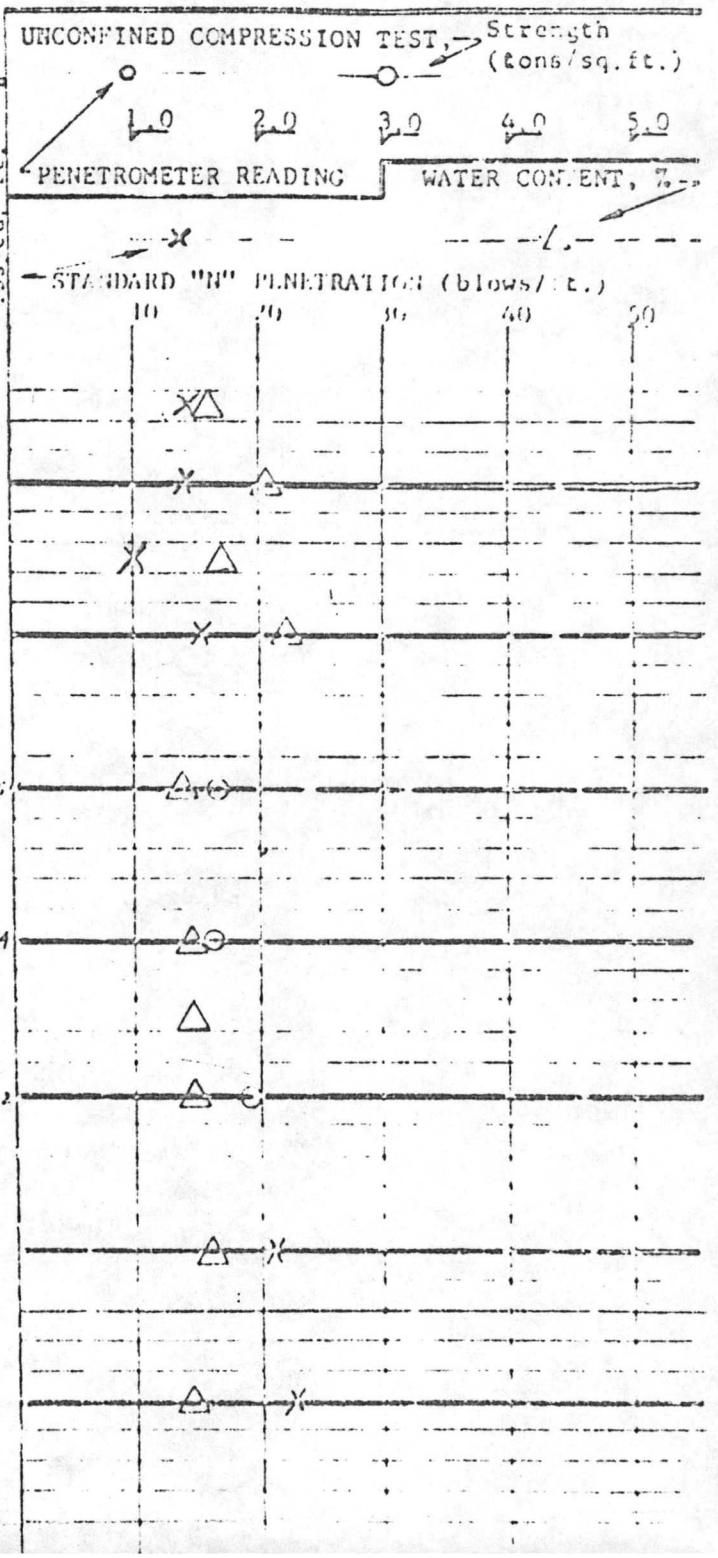
1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 7
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj.No. 3140 Date: 3/17/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Number	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu.ft.
			Existing Surface - Elev. ft: 726.90	
5.0			Brown silt, sand and gravel, trace clay, medium dense	
10.0				
15.0				118.5
20.0			Gray clay, some silt, sand and gravel, tough	114.4
25.0				119.2
30.0			Gray clay, some silt, sand and gravel, very tough	
35.0				



NO' K, DEMPSEY & ASSOCIA 'S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 7

CLIENT: VILLAGE OF ARLINGTON HEIGHTS

LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/17/71 By: JK

Equipt. Used: CME Drill

Comments:

Depth, ft.	Sample Number	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
40.0				
45.0			Gray clay, some silt, sand and gravel, hard	
50.0				
55.0				
60.0			Gray silt, trace clay and sand, dense	
65.0				
			Gray silt, trace clay, very dense	
70.0				
			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING

WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

Water Level 3.0' Bor. after test

NO K, DEMPSEY & ASSOCIA S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

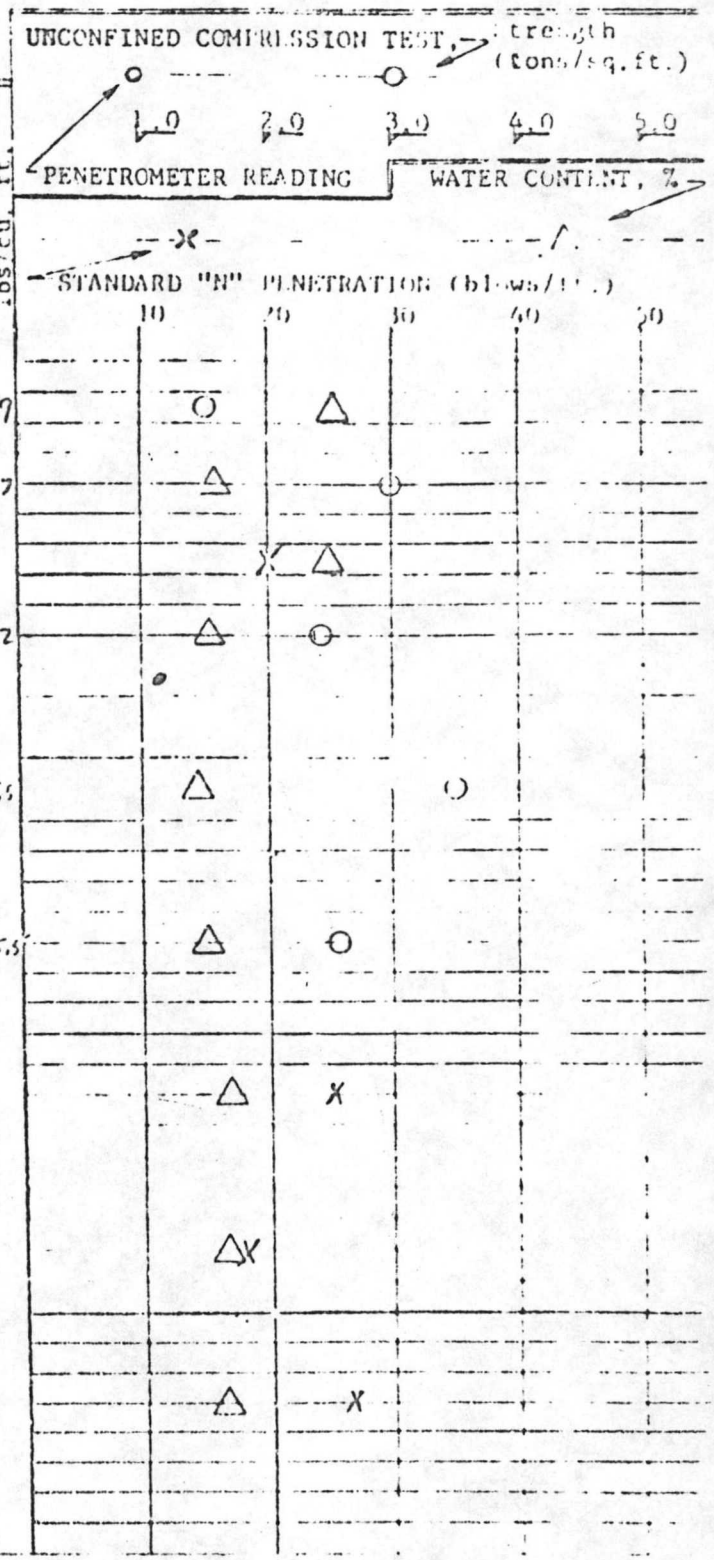
1533 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 8
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/18/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface Elev. ft: 726.37	
			Black topsoil	
			Brown clay and silt, some sand and gravel, tough	86.7
5.0			Brown clay and silt, some sand and gravel, very tough	112.7
			Brown silt and sand, trace gravel, medium dense	
10				112.2
15.0				115.5
20.0				105.5
			Gray clay, some silt, sand and gravel, very tough	
25.0				
30.0				
35				



Water Level [illegible] ft. after [illegible]

NO .K, DEMPSEY & ASSOCIA S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1502 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 8
CLIENT VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/18/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Taken	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
40				
45				
50				
55.0			Gray clay, some silt, sand and gravel, hard	
60.0				
70				
			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING | WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

NC AK, DEMPSEY & ASSOCIAT S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

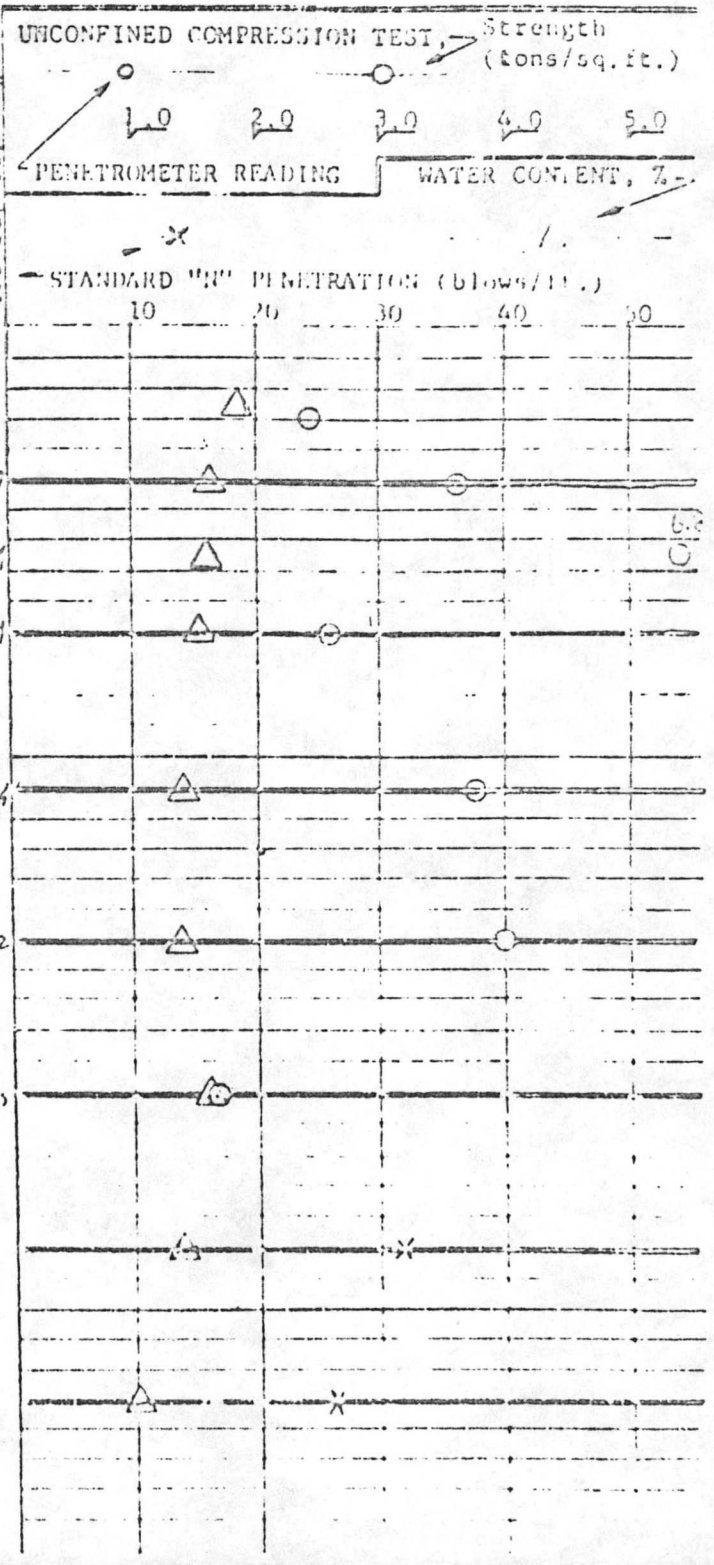
1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 9
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/22/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, Ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu.ft.
			Existing Surface - Elev. ft: 725.68	
5.0			Brown clay, some silt, sand and gravel, very tough	105.0
				113.7
10.0			Brown clay, some silt, sand and gravel, hard	124.9
				106.9
15.0			Gray clay, some silt and sand, trace gravel, very tough	109.4
20.0				113.2
25.0			Gray clay, some silt and sand, trace gravel, tough	106.5
30.0			Gray sand and gravel, trace clay, dense	
35.0			Gray sand and gravel, trace clay, medium dense	



NC AK, DEMPSEY & ASSOCIA S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 9
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/22/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Number	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft.	
40.0			Gray sand and gravel, trace clay, dense	
45.0			Gray clay, some silt, sand and gravel, medium dense	
55.0			Gray clay, some silt, sand and gravel, dense	
60.0				
			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING — WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO. 10

CLIENT: VILLAGE OF ARLINGTON HEIGHTS

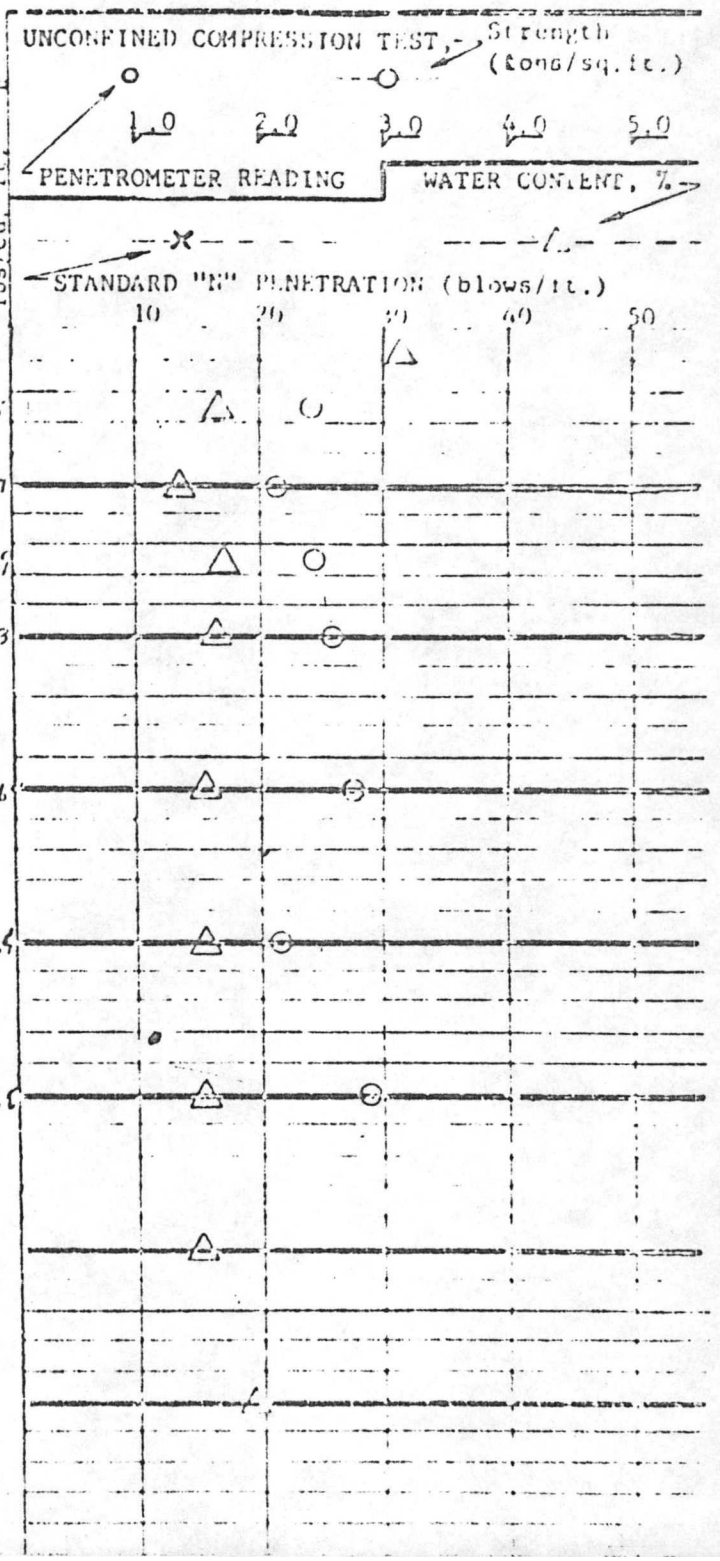
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/24/71 By: JK

Equipt. Used: CME Drill

Comments:

Depth, ft.	Sample Number	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
				Existing Surface - Elev. ft.: 430.7 Black Topsoil	
5.0				Brown clay and silt, some sand and gravel, very tough	123.7
10.0					106.7
					110.3
15.0					115.6
20.0				Gray clay, some silt and sand, trace gravel, very tough	112.5
25.0					105.0
30.0					
35.0					



NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

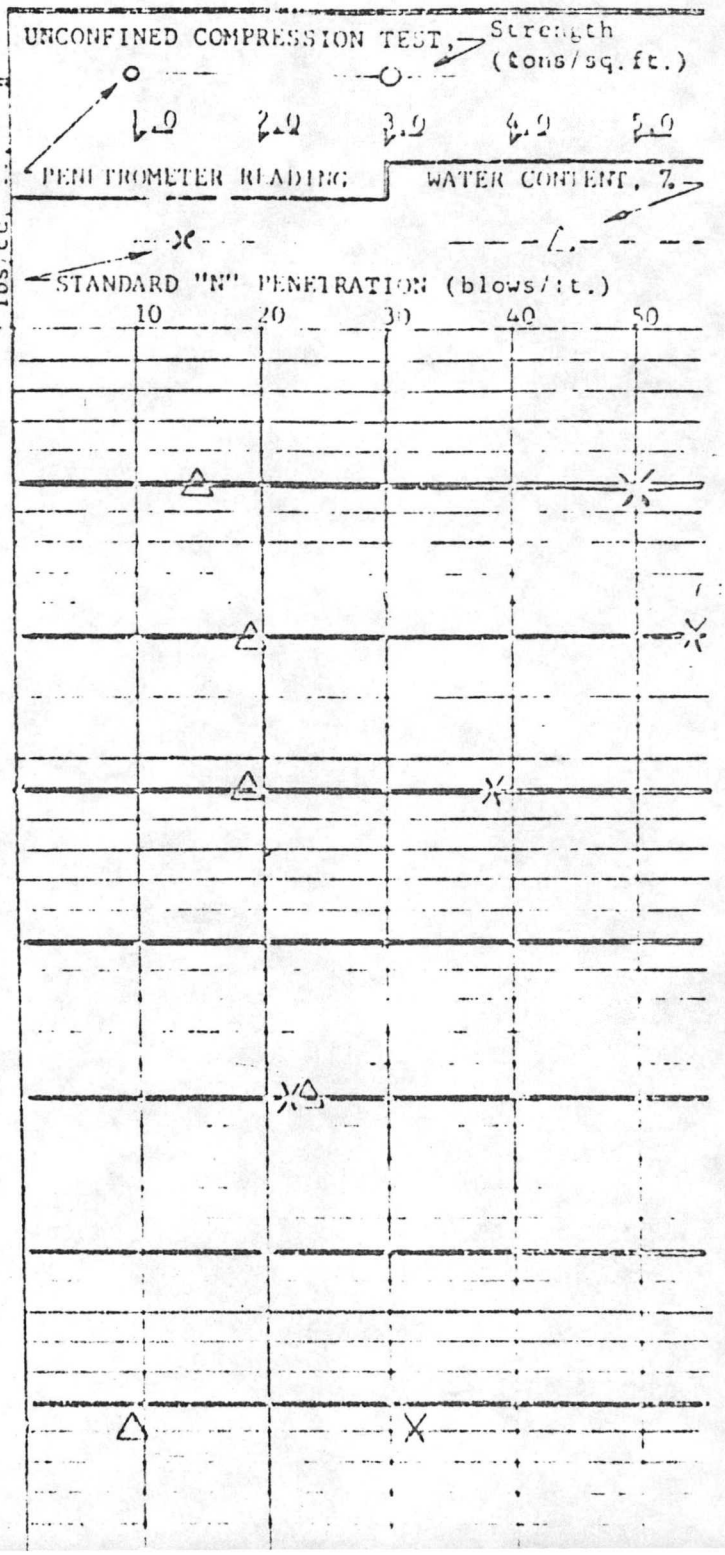
1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 10
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/24/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, Ft.	Sample Type	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
50.0			Gray clay, some silt, sand and gravel, hard	
55.0				
60.0				
65.0				
70.0			Gray silt, trace clay, medium dense	
75.0			Gray silt, trace clay, dense	
			End of Boring	



NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

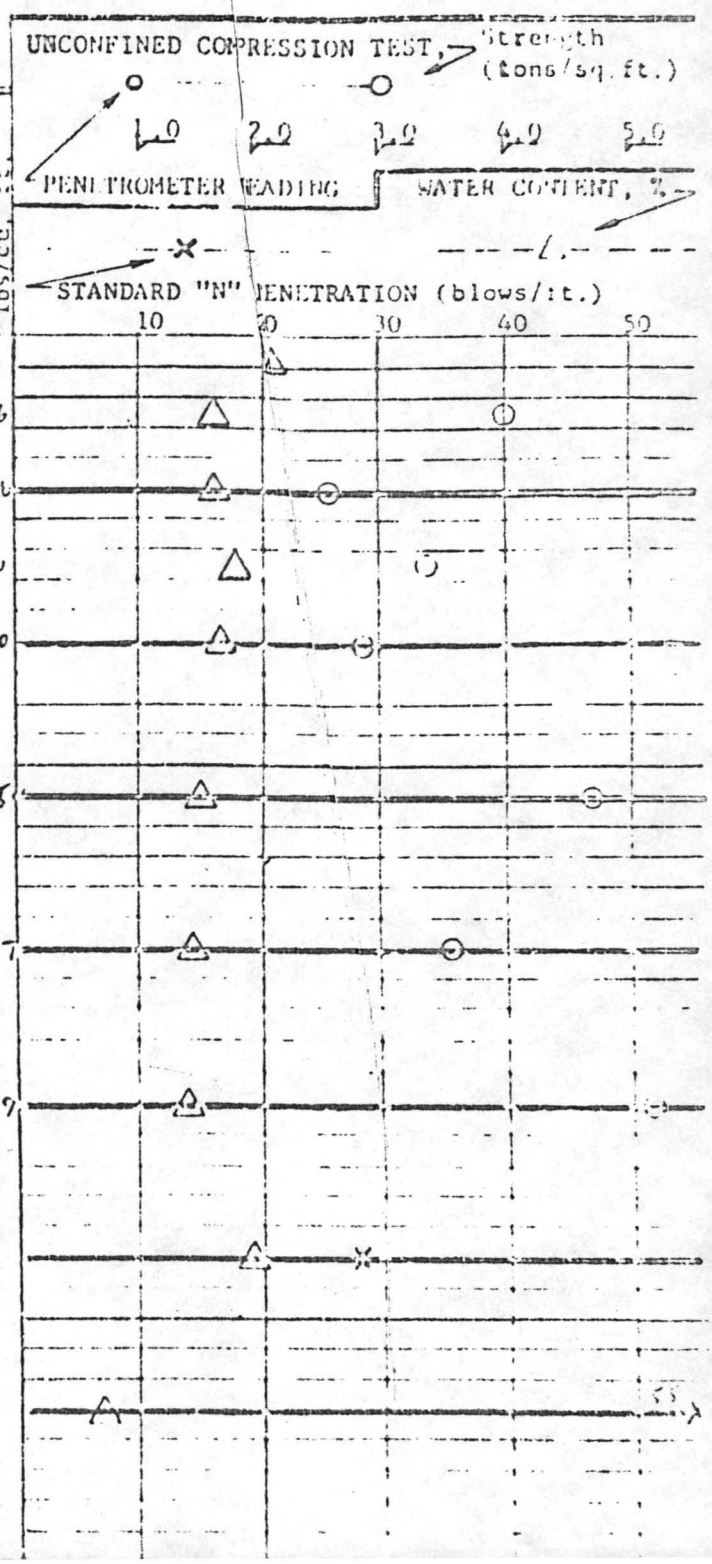
1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 11
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/25/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft: 731.3	
			Black topsoil	
5.0			Brown clay, some silt and sand, trace gravel, very tough	113.6
				120.0
10.0			Gray clay and silt, some sand, trace gravel, very tough	117.6
				118.0
15.0			Gray clay and silt, some sand, trace gravel, hard	118.5
20.0			Gray clay and silt, some sand, trace gravel, very tough	117.7
25.0			Gray clay and silt, some sand, trace gravel, hard	117.9
30.0				
			~~Gray fine sand, trace clay, medium dense~~	
35.0			Gray fine sand, trace clay, dense	



NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

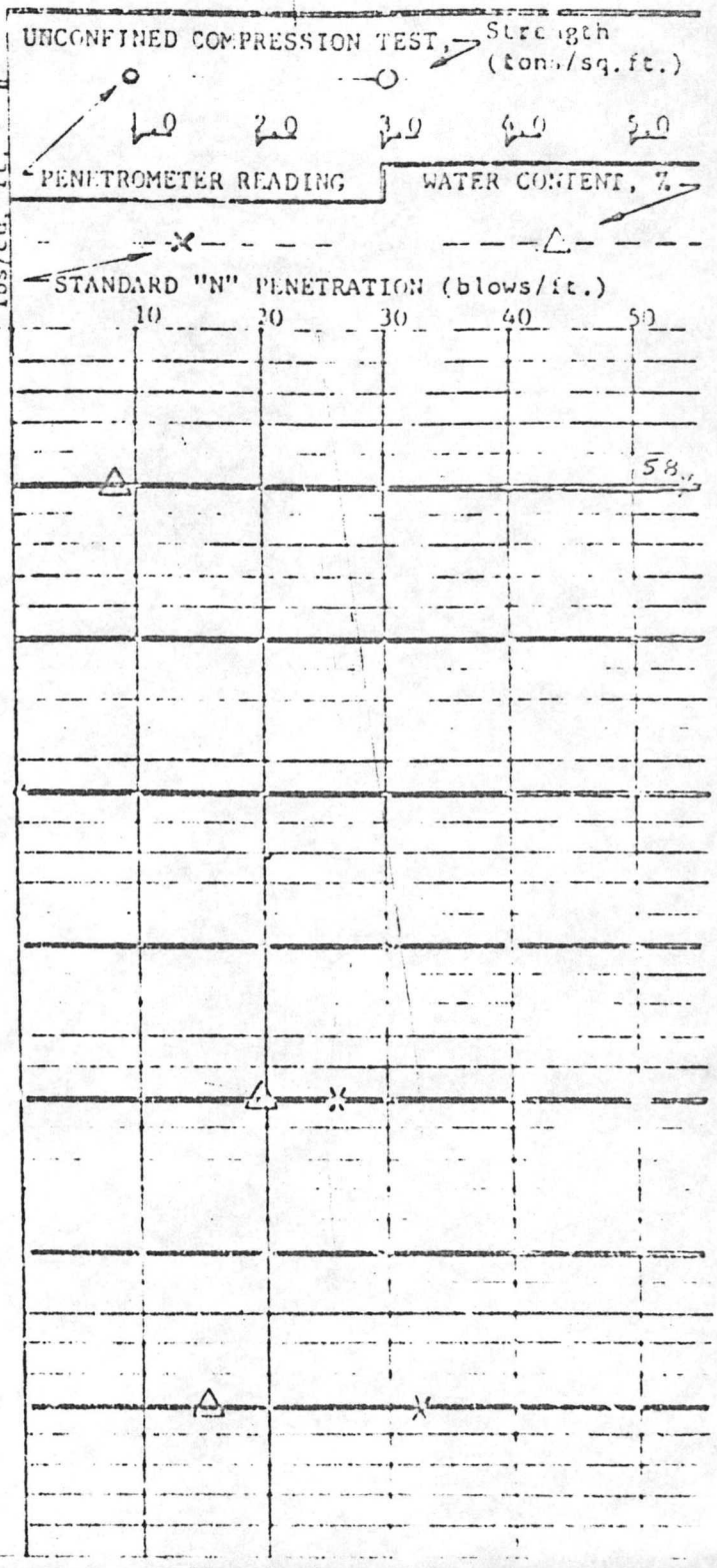
1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 11
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/25/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft.	
40.0			Gray fine sand, trace clay, dense	
45.0				
50.0			Gray silt, some clay, trace sand and gravel, medium dense	
55.0				
60.0				
65.0				
70.0			Gray silt, some clay, trace sand and gravel, dense	
			End of Boring	



NO AK, DEMPSEY & ASSOCIA S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

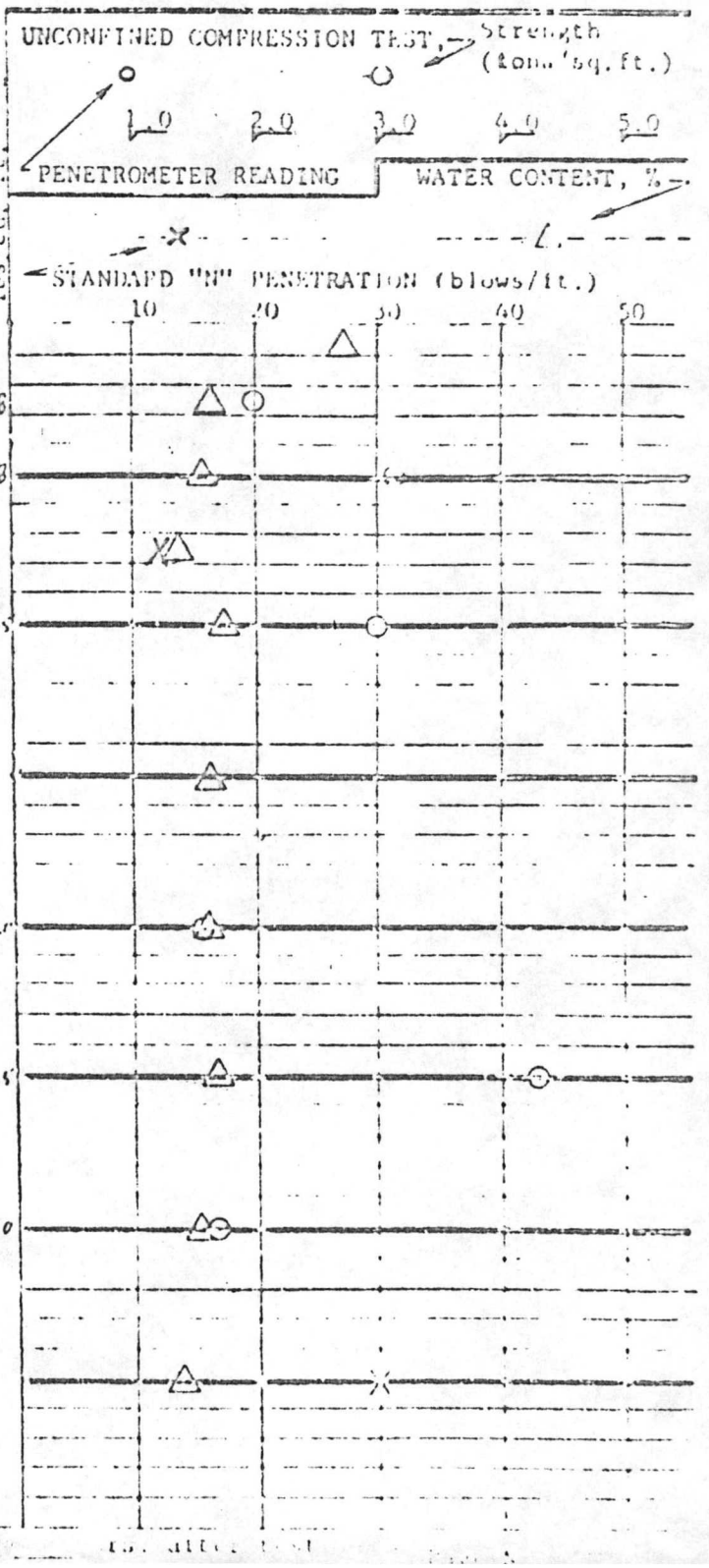
1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 12
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/23/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft: 734.2 Black topsoil	
5.0			Brown clay and silt, some sand, trace gravel, very tough	109.8 109.8
			Brown sand and gravel, trace clay, medium dense	
10.0			Brown clay and silt, some sand and gravel, very tough	107.5
15.0 20.0			Gray clay, some silt, sand and gravel, tough	108.0
25.0			Gray clay, some silt, sand and gravel, hard	104.5
30.0			Gray clay, some silt, sand and gravel, tough	96.0
35.0			Gray sand and gravel, some silt, trace clay, medium dense	



Water Level

N /AK, DEMPSEY & ASSOCIA"S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 12
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj.No. 3140 Date: 3/23/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
40.0			Gray sand and gravel, some silt, trace clay, medium dense	
45.0			Gray clay, some silt, sand and gravel, medium dense	
50.0			Gray clay, some silt, sand and gravel, dense	
60.0			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.)

0 1.0 2.0 3.0 4.0 5.0

PENETROMETER READING — WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

Water Conditions: Water Level 16.0' ___ hrs. after test

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

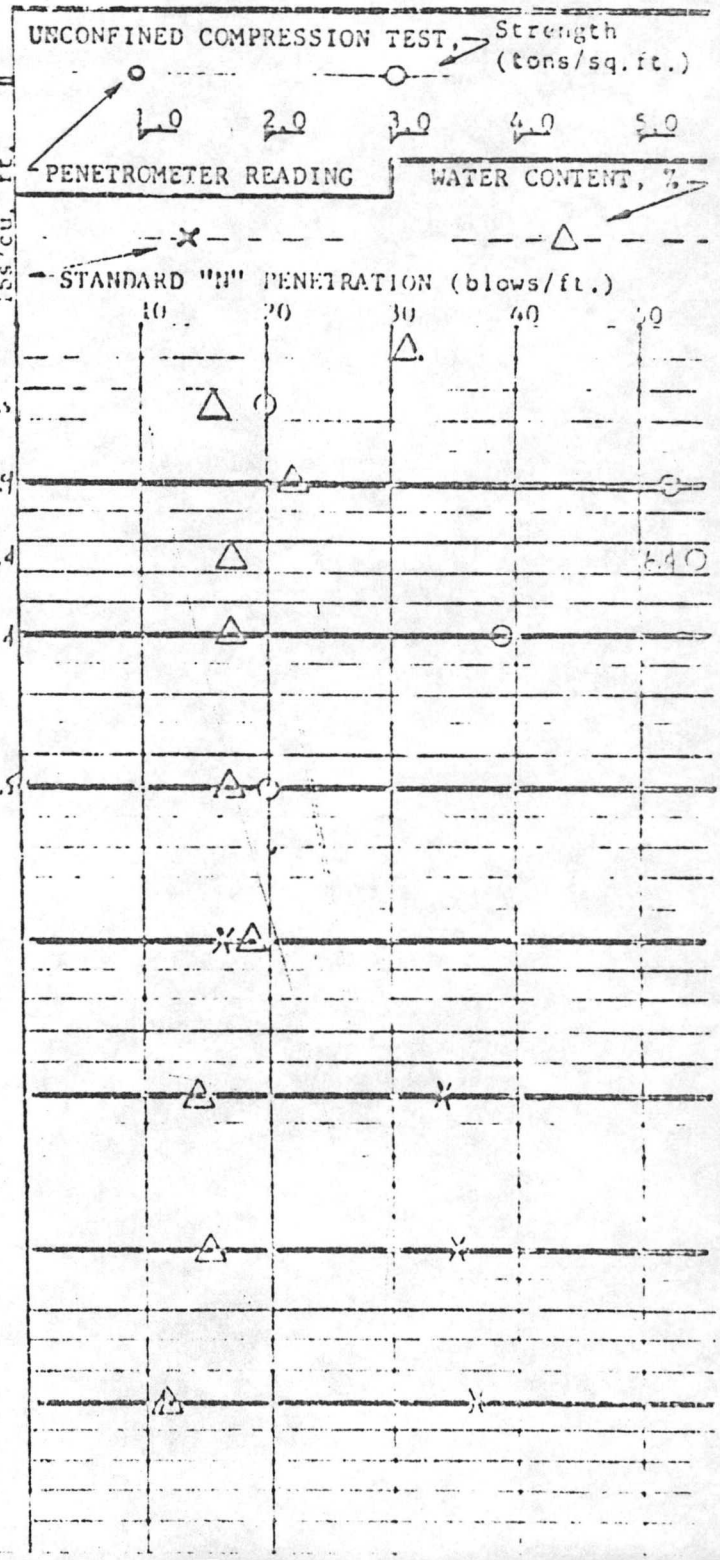
1032 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 13
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/26/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface Elev. ft:	
			Black Topsoil	
			Brown clay and silt, some sand, trace gravel, very tough	106.5
5.0			Brown clay and silt, some sand, trace gravel, hard	102.9
				110.4
10.0				108.4
15.0			Gray clay and silt, some sand, trace gravel, very tough	107.5
20.0				
25.0			Gray clay, some silt, trace sand and gravel, hard	
30.0				
32.0			Gray clay and sand, some silt, trace gravel, hard	



NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO. 11

CLIENT VILLAGE OF ARLINGTON HEIGHTS

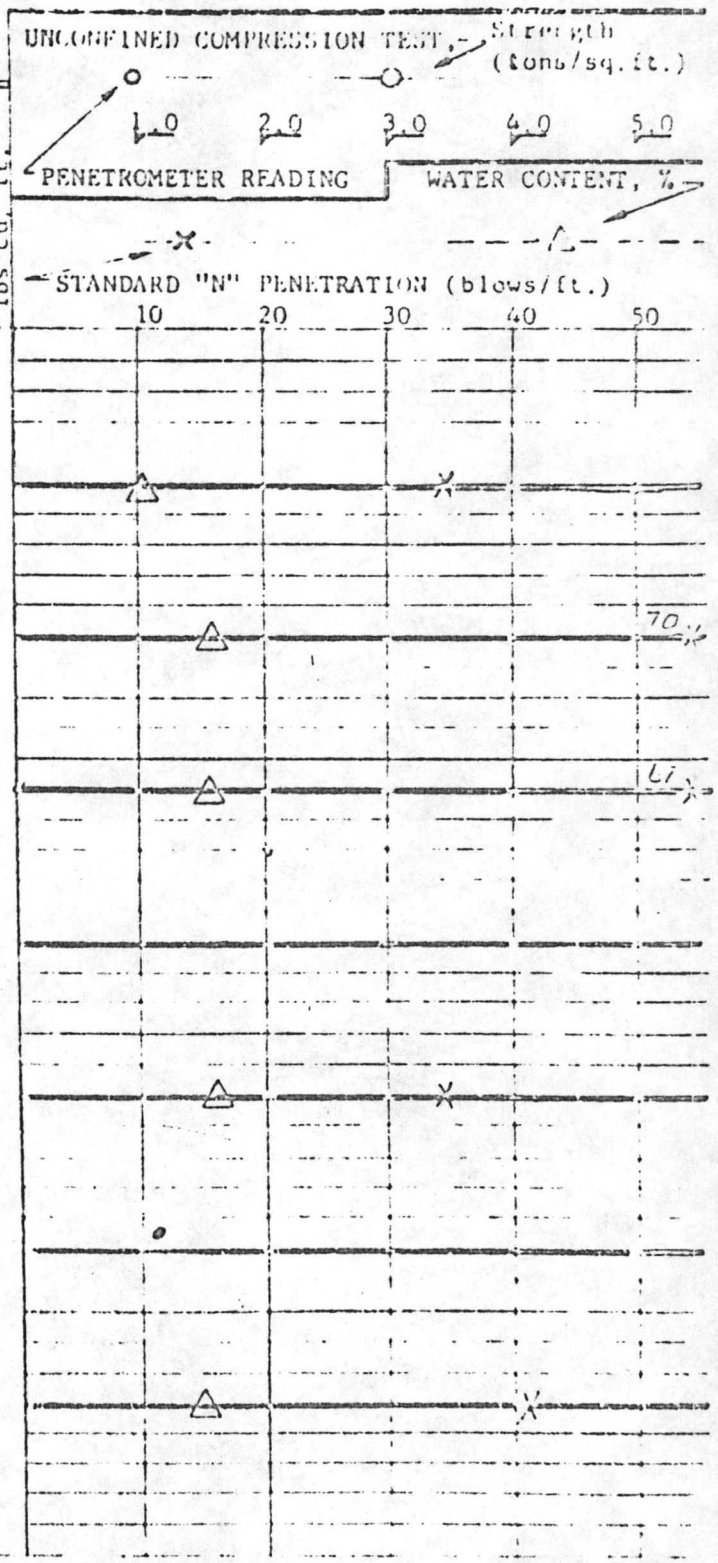
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/26/71 By: JK

Equipt. Used: CME Drill

Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
40.0			Gray clay and sand, some silt, trace gravel, hard	
45.0				
50.0			Gray clay and silt, some sand, trace gravel, hard	
55.0				
60.0				
65.0			Gray clay and silt, some sand, trace gravel, hard	
70.0				
			End of Boring	



Weather Conditions:

Water Level 12.0' hrs. after test

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1032 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING No: 14
CLIENT VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE. Water Reservoir

Proj. No. 3140 Date: 3/26/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft: 735.8	
			Brown clay and silt, some sand and gravel, tough	128.5
5.0			Brown clay and silt, some sand and gravel, very tough	119.8
10.0			Brown clay and silt, some sand and gravel, tough	125.3
15.0			Brown sand, some silt, medium dense	
20.0			Gray fine sand, some silt, dense	
25.0			Gray clay and sand, some silt, trace gravel, hard	116.5
30.0			Gray clay and sand, some silt, trace gravel, very tough	113.1
35.0			Gray fine sand, medium dense	

Weather Conditions: Water Level ___ hrs. after test

NOVAK, DEMPSEY & ASSOCIATES, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE • DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 14

CLIENT: VILLAGE OF ARLINGTON HEIGHTS

LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/26/71 By: JK

Equipt. Used: CME Drill

Comments:

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
40.0			Gray sand and coarse gravel, medium dense	
45.0				
50.0			Gray sand and gravel, trace clay, dense	
55.0				
60.0				
65.0			Gray clay and silt, trace sand, very dense	
70.0				
			End of Boring	

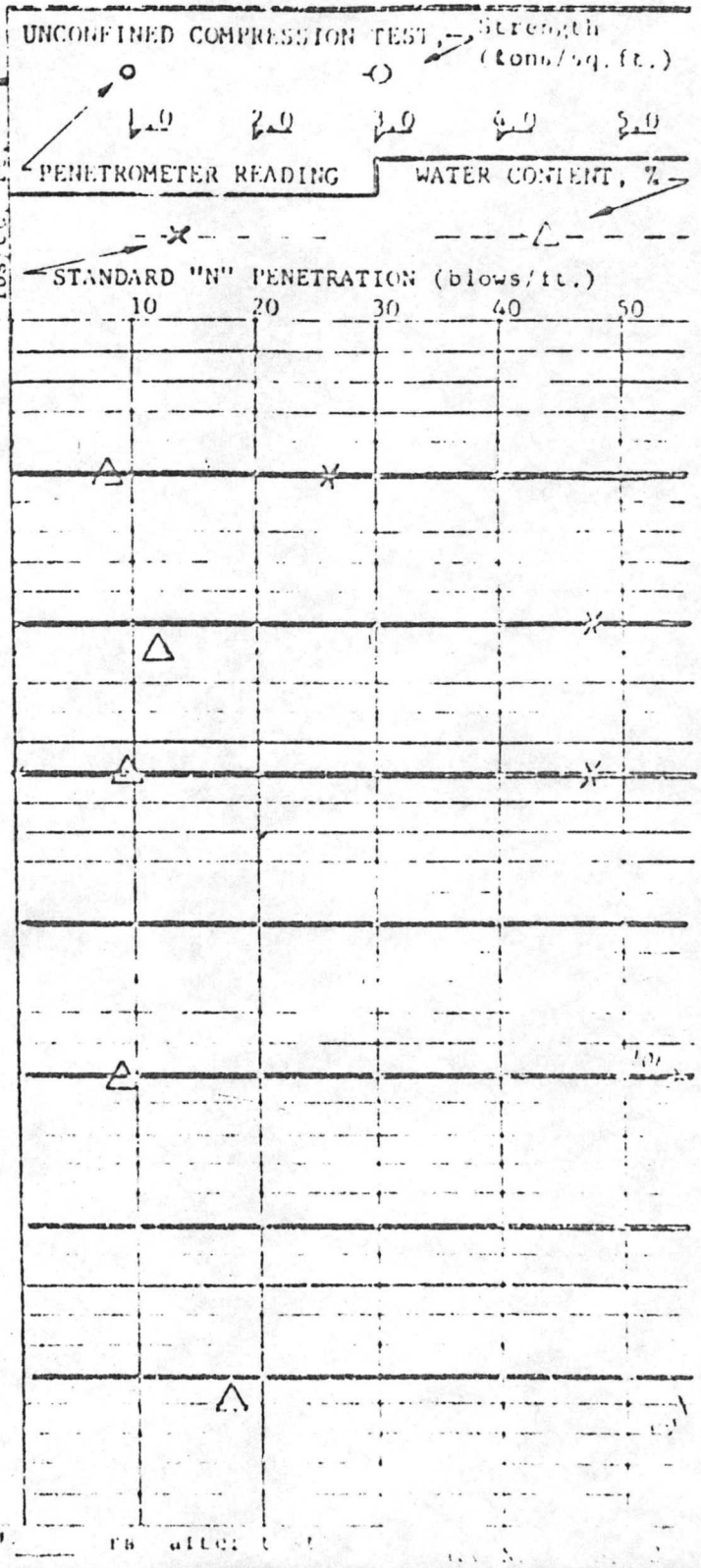
UNCONFINED COMPRESSION TEST — Strength (tons/sq. ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING — WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50



Water Level 21.0' [illegible] after [illegible]

NO AK, DEMPSEY & ASSOCIA S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 15
CLIENT: VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/29/71 By: TK
Equipt. Used: CME Drill
Comments:

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.)
PENETROMETER READING
WATER CONTENT, %
STANDARD "N" PENETRATION (blows/ft.)

Depth, ft.	Sample Range	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft: 735.8	
			Black topsoil	
5.0			Brown clay, some silt and sand, trace gravel, hard	108.5
10.0			Gray clay, some silt, trace sand and gravel, hard	101.5
				118.1
15.0				112.9
20.0				115.2
			Gray clay, some silt, trace sand and gravel, very tough	
25.0				113.0
30.0				115.7
35.0				118.4

Weather Conditions: Water Level ____ hrs. after test

NC AK, DEMPSEY & ASSOCIA .S, INC.

Quality Control Consultants

Analysis, Testing, Research and Development of Construction Materials

1532 DES PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING No. 15
CLIENT VILLAGE OF ARLINGTON HEIGHTS
LOCATION SITE: Water Reservoir

Proj. No. 3140 Date: 3/30/71 By: JK
Equipt. Used: CME Drill
Comments:

Depth, ft.	Sample Type	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft.	
40.0				113.5
			Gravel and sand, some silt, trace clay, loose	
45.0				
50.0				
55.0			Gray clay and silt, trace sand and gravel, hard	
60.0				
65.0				
70.0			End of Boring	

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING — WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

Water Level 14.0' [illegible]

NO[illegible]K, [illegible]ADSEY & ASSOCIATE[illegible] INC.

[illegible] Control Consultants

Analysis, [illegible] Development of Construction Materials

[illegible] PLAINES AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 16

CLIENT: VILLAGE OF ARLINGTON HTS.

LOCATION SITE: Water Reservoir

Proj.No. 2140 Date: 4/6/71 By: [illegible]

Equipt. Used: CME Drill

Comments:

Depth, ft.	Sample Number	Sample Recovery	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft.	
			A. See below	
5.0			Brown silt, some clay, some fine sand, trace gravel, medium dense	
			Brown silt, some coarse sand, trace clay and gravel, medium dense	
10.0			Gray clay and silt, some fine sand, trace gravel, very tough	
15.0			End of Boring	
			A. Brown clay, some silt, trace fine sand and gravel fill	
20.0				
25.0				
30.0				

UNCONFINED COMPRESSION TEST, Strength (tons/sq.ft.)

1.0 2.0 3.0 4.0 5.0

PENETROMETER READING

WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

Weather Conditions: Water Level ____ @ ____ Hrs. after test

Page No. ____ of ____

MC[illegible]AK, DRAIGHY & ASSOCIATE[illegible], INC.

Geotechnical Consultants

Architects, Engineers, Investigators & Developers of Construction Materials

[illegible] PLAINS AVENUE o DES PLAINES, ILLINOIS

SOIL BORING LOG

BORING NO: 17

GEOGRAPHICAL LOCATION: VILLAGE OF ARLINGTON HTS.

LOCATION: [illegible] Reservoir

Proj. No. 3740 Date: 4/6/71 By: JK

Equipt. Used: CME Drill

Comments:

Depth, ft.	Sample Number	Sample Type	DESCRIPTION OF MATERIAL	Unit Dry Wt. lbs/cu. ft.
			Existing Surface - Elev. ft:	
			Brown clay, some silt, trace sand and gravel fill	
5.0			Brown silt, some clay, trace fine sand and gravel, medium dense	
			Brown silt, some fine sand, trace clay and gravel, medium dense	
10.0			Gray clay, some silt, trace fine sand and gravel, very tough	
15.0			End of Boring	
20.0				
25.0				
30.0				

UNCONFINED COMPRESSION TEST, Strength (tons/sq. ft.)

0.0 0.5 1.0 1.5 2.0

PENETROMETER READING

WATER CONTENT, %

STANDARD "N" PENETRATION (blows/ft.)

10 20 30 40 50

Water conditions: Water Level [illegible] ft. [illegible] hrs. after test

DOCUMENT CONTROL NO. FIL0533GT - 16

INDEX FORM FOR FIT FILES

This information does not have to be written out for each item to be filed. Instead, fill in Lines 1-3 and photocopy onto yellow paper to make the form obvious in the file. Then under line 4, check the respective box on the yellow sheets. Place the form directly in front of the material it represents.

1. TECHNICAL DIRECTIVE DOCUMENT (TDD) NUMBER: F05-8705-017
2. PROJECT ACCOUNT (PAN) NUMBER: FIL0533GT
3. SITE NAME AND LOCATION: Arlington Hts. Municipal Landfill
4. FILE DESCRIPTION (Check ONE Only):

RESERVED

___ TECHNICAL DIRECTIVE DOCUMENT(TDD)
___ ACKNOWLEDGEMENT OF COMPLETION(AOC)
___ PERFORMANCE EVALUATION REPORT
___ SITE SAFETY PLAN AND RELATED DOCUMENTS
___ SITE INSPECTION REPORT (EPA 2070-13)
___ HRS RANKING SYSTEM REPORT (HRS)

REPORTS

___ PRELIMINARY ASSESSMENT (EPA 2070-12)
___ PRELIMINARY ASSESSMENT DOCUMENTATION PACKAGE
___ FIT TECHNICAL MEMORANDA/REPORTS

PROJECT INFORMATION (Collected from non-FIT sources)

___ FEDERAL FILE INFORMATION
___ STATE FILE INFORMATION
___ COUNTY/TOWNSHIP FILE INFORMATION
___ CITY FILE INFORMATION
___ SITE OWNER/OPERATOR FILE INFORMATION
___ GEOLOGICAL INFORMATION (e.g. well logs)
✓ MISCELLANEOUS FILE INFORMATION

FIELD WORK (FIT GENERATED WORK)

___ WORK PLAN/SAMPLE PLAN
___ QUALITY ASSURANCE PLAN (QAPP)
___ FIELD NOTEBOOKS
___ PHOTOGRAPHS/SLIDES/NEGATIVES
___ SITE SKETCHES/MAPS
___ SAMPLE MANAGEMENT(Chain of Custody, etc.)
___ ANALYTICAL DATA Date _____
___ HYDROGEOLOGIC DATA (i.e., boring logs, pump tests, slug tests, etc.)
___ GEOPHYSICAL DATA
___ AIR MONITORING DATA
___ TELEPHONE CONVERSATION LOGS
___ MEETING NOTES/CONTACT REPORTS
___ CORRESPONDENCE

SUBCONTRACT MANAGEMENT

DRILLING SUBCONTRACTS

___ BID PACKAGE
___ BID REQUEST LETTERS
___ BIDDER'S SUBMITTALS
___ EVALUATION OF SUBMITTALS/MEMORANDUM OF JUSTIFICATION
___ REQUEST FOR SUBCONTRACT APPROVAL
___ CONTRACT
___ SUBCONTRACTOR'S DELIVERABLES
___ INVOICES/INVOICE VERIFICATION
___ CORRESPONDENCE

OTHER SUBCONTRACTS ( )

___ BID PACKAGE
___ BID REQUEST LETTERS
___ BIDDER'S SUBMITTALS
___ EVALUATION OF SUBMITTALS/MEMORANDUM OF JUSTIFICATION
___ REQUEST FOR SUBCONTRACT APPROVAL
___ CONTRACT
___ SUBCONTRACTOR'S DELIVERABLES
___ INVOICES/INVOICE VERIFICATION
___ CORREPSONDENCE

OTHER

___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____

```
*****************************************************************************************************************************
SERIAL                    F A C I L I T Y                                  EST.POP. OWN START TREAT NO. OF   T R E A T M E N T
                                                                            SERVED   CD  YEAR  YEAR SERVICES     C O D E S
*****************************************************************************************************************************
      S O U R C E  O F  S U P P L Y          IMPOUND   WELL   PLANT   PUMPAGE  S T O R A G E  C A P S. PAY MIN  AMT/PER $ PER 1000
                                             SUP.CAP. SUP.CAP. SUP.CAP AVG.CAP GROUND  ELEVATED  TOTAL  CD CHG 1000 GAL LOW   HIGH
*****************************************************************************************************************************
  MINERAL  HARDNESS   HARD-NO-CARB   I R O N  FLUORIDE  INSPECTION INFO   OP CLASS UPDATE REGION
    FIN       FIN         FIN         FIN       FIN     CLASS  DATE      REQUIRED  DATE  NUMBER
*****************************************************************************************************************************

-----------------------------------------------------------------------------------------------------------------------------
085005-0 APPLE RIVER                                                      472    M 1941            185   FA
002  ROCK WELLS                                   0.00   0.22    0.00   0.000    100.0       0.0   100.0 M  6.00  F L A T  R A T E
  320        287        38        0.06            1.1   32080 09-16-82    *C*     10-82   1
-----------------------------------------------------------------------------------------------------------------------------
041005-0 ARCOLA                                                          2713    M 1890  1979      1163    I FA  C
808  DOUGLAS WTR CO.& DRIFT WELLS                 0.00   0.00    0.45   0.212    125.0     250.0   375.0 M  4.05   1.0  1.45   [illegible]5
    0          0          0         0.70            0.7   32080 07-19-84    *B*     09-84   3A
-----------------------------------------------------------------------------------------------------------------------------
017005-0 ARENZVILLE                                                       450    M 1947            183   FA  C
001  DRIFT WELLS                                  0.00   0.28    0.00   0.052      0.0      60.0    60.0 M  3.50   1.0  1.00  3.50
    0          0          0         0.00            1.0   32080 12-01-83    *C*     02-84   3
-----------------------------------------------------------------------------------------------------------------------------
115005-0 ARGENTA                                                         1000    M 1954  1954       395   FA  C  Z  I
001  DRIFT WELLS                                  0.00   0.39    0.14   0.075      0.0      50.0    50.0 M  3.00   2.0  0.60  1.50
  381          0          0         0.00            1.0   12030 07-12-83    *B*     08-83   3A
-----------------------------------------------------------------------------------------------------------------------------
031006-0 ARGO - SUMMIT                                                  10110    M 1902           2060    C
327  CHICAGO                                      0.00   0.00    5.50   1.340   1500.0     250.0  1750.0 Q 13.50   7.5  1.80  1.81
    0          0          0         0.00            0.0   21080 09-22-81    *C*     12-82   2
-----------------------------------------------------------------------------------------------------------------------------
011005-0 ARLINGTON                                                       238    M 1897             90   PP FA  C
001  DRIFT WELLS                                  0.00   0.09    0.00   0.021      0.0      31.6    31.6 Q 12.00  F L A T  R A T E
  410        350        50        1.50            0.8   12080 10-24-84    *C*     11-84   1
-----------------------------------------------------------------------------------------------------------------------------
031403-0 ARLINGTON HEIGHTS                                              66116    M 1900          16957    C FN PP
002  ROCK WELLS                                   0.00  13.80    0.00   7.560  17000.0    2000.0 19000.0 Q 15.00   6.1  2.45  2.80
    0          0          0         0.00            0.9   32080 03-02-83            03-83   2
-----------------------------------------------------------------------------------------------------------------------------
179005-0 ARMINGTON                                                       300    M 1949  1979       165    I FA  C
001  DRIFT WELLS                                  0.00   0.26    0.27   0.026      0.0     100.0   100.0 M  7.70   2.0  2.10  3.85
    0          0          0         0.05            1.0   32080 05-09-84    *B*     07-84   3
-----------------------------------------------------------------------------------------------------------------------------
091005-0 AROMA PARK                                                      673    M 1950           534   FA  C
002  ROCK WELLS                                   0.00   0.16    0.00   0.117      0.0     150.0   150.0 M  7.35   3.0  0.40  1.35
  480        408       106        0.10            0.9   21080 10-20-82    *C*     12-82   2
-----------------------------------------------------------------------------------------------------------------------------
113010-0 ARROWSMITH                                                      297    M 1953           130   FN  C
001  DRIFT WELLS                                  0.00   0.22    0.00   0.028      0.0     105.0   105.0 M  3.00  F L A T  R A T E
    0          0          0         0.00            1.0   30080 08-11-84    *C*     09-84   3A
-----------------------------------------------------------------------------------------------------------------------------
```

```
*****************************************************************************************************************************
SERIAL                    F A C I L I T Y                                  EST.POP. OWN START TREAT NO. OF   T R E A T M E N T
                                                                            SERVED   CD  YEAR  YEAR SERVICES     C O D E S
*****************************************************************************************************************************
      S O U R C E  O F  S U P P L Y          IMPOUND   WELL   PLANT   PUMPAGE  S T O R A G E  C A P S. PAY MIN  AMT/PER $ PER 1000
                                             SUP.CAP. SUP.CAP. SUP.CAP AVG.CAP GROUND  ELEVATED  TOTAL  CD CHG 1000 GAL LOW   HIGH
*****************************************************************************************************************************
  MINERAL  HARDNESS   HARD-NO-CARB   I R O N  FLUORIDE  INSPECTION INFO   OP CLASS UPDATE REGION
    FIN       FIN          FIN        FIN       FIN     CLASS  DATE      REQUIRED  DATE  NUMBER
*****************************************************************************************************************************

-----------------------------------------------------------------------------------------------------------------------------
013010-0 BRUSSELS                                                          400    M 1963  1963      115    I  C FA
001  DRIFT WELLS                                0.00   0.12    0.15   0.020      0.0      50.0     50.0 M  5.50   1.0  1.00  5.50
   418        420          28         0.16      1.0   32032 08-03-83    *B*      09-83   3
-----------------------------------------------------------------------------------------------------------------------------
057020-0 BRYANT                                                            310    M 1972          116   FN  C  I
002  ROCK WELLS                                 0.00   0.07    0.08   0.015      0.0      30.0     30.0 B 14.00   4.0  0.85     0
     0          0           0         0.26      2.9   12020 09-02-83    *B*      10-83   3
-----------------------------------------------------------------------------------------------------------------------------
091025-0 BUCKINGHAM                                                        330    M 1902           90    C
002  ROCK WELLS                                 0.00   0.13    0.00   0.026      0.0      *7.5      7.5 M  5.00  F L A T  R A T E
     0          0           0         0.00      0.9   31080 03-29-83    *C*      06-83   2
-----------------------------------------------------------------------------------------------------------------------------
075015-0 BUCKLEY                                                           604    M 1889  1972      287   FA  C  I  I
001  DRIFT WELLS                                0.00   0.32    0.31   0.044      0.0      50.0     50.0 B  7.00   2.0  0.75  3.50
     0         79           0         0.00      1.0   10000 03-14-83    *B*      04-83   3A
-----------------------------------------------------------------------------------------------------------------------------
055010-0 BUCKNER                                                           892    M 1964          255
456  REND LAKE INT-CITY WTR SYST                0.00   0.00    0.00   0.033      0.0     100.0    100.0 M  4.00   2.6  2.00  2.67
     0          0           0         0.00      0.0   10080 08-04-83    *D*      09-83   5
-----------------------------------------------------------------------------------------------------------------------------
011010-0 BUDA                                                              670    M 1896  1955      287   PP FN  C  H
003  DRIFT AND ROCK WELLS                       0.00   0.00    0.72   0.073     28.0      58.0     86.0 Q 21.00  F L A T  R A T E
  1150        190           0         0.30      1.6   21080 08-15-84    *C*      10-84   1
-----------------------------------------------------------------------------------------------------------------------------
031418-0 BUFFALO GROVE                                                   22230    M 1968         6334    C FN
002  ROCK WELLS                                 0.00   5.60    0.00   1.950   2800.0       0.0   2800.0 B  1.00   1.0  1.00  1.00
   490        240          43         0.00      1.3   21080 02-10-82    *C*      12-82   2
-----------------------------------------------------------------------------------------------------------------------------
117010-0 BUNKER HILL                                                      2000    M 1937          705    C
501  ALTON WTR CO. VIA FOSTERBURG PWD           0.00   0.00    0.32   0.132    300.0     260.0    560.0 M  6.75   2.0  2.25  3.38
     0          0           0         0.00      0.0   32080 09-24-84    *C*      10-84   3
-----------------------------------------------------------------------------------------------------------------------------
011510-0 BUREAU COUNTY      BAILEY SUBD                                    43    P 1969           12
002  ROCK WELLS                                 0.00   0.00    0.00   0.004      0.0      *0.2      0.2    0.00   0.0  0.00  0.00
     0          0           0         0.00      0.0   26686 05-03-83    *D*      12-82   1
-----------------------------------------------------------------------------------------------------------------------------
011552-5 BUREAU COUNTY      ELM CITY MOBILE ESTS MHP                      108    P 1965           43
006  SPRINGS                                    0.00   0.06    0.00   0.004      0.0      *1.9      1.9    0.00   0.0  0.00  0.00
   310        185           0         1.30      0.6   22088 04-11-84    *D*      05-84   1
-----------------------------------------------------------------------------------------------------------------------------
```

```
*****************************************************************************************************************************
SERIAL                    F A C I L I T Y                                  EST.POP. OWN START TREAT NO. OF   T R E A T M E N T
                                                                            SERVED   CD' YEAR  YEAR SERVICES     C O D E S
*****************************************************************************************************************************
      S O U R C E  O F  S U P P L Y          IMPOUND   WELL   PLANT   PUMPAGE  S T O R A G E  C A P S. PAY MIN  AMT/PER $ PER 1000
                                             SUP.CAP. SUP.CAP. SUP.CAP AVG.CAP GROUND  ELEVATED  TOTAL  CD CHG 1000 GAL LOW   HIGH
*****************************************************************************************************************************
 MINERAL  HARDNESS   HARD-NO-CARB   I R O N  FLUORIDE  INSPECTION INFO   OP CLASS UPDATE REGION
   FIN       FIN         FIN         FIN       FIN     CLASS  DATE      REQUIRED  DATE  NUMBER
*****************************************************************************************************************************

-----------------------------------------------------------------------------------------------------------------------------
099080-0 OTTAWA                                                          18750    M 1895            7007   FA  C
002  ROCK WELLS                                   0.00   5.42    0.00   2.170    375.0    1234.0  1609.0 Q  6.00  F L A T  R A T E
   510        300          20        0.15         0.9  22080 11-08-83    *C*     12-83   1

-----------------------------------------------------------------------------------------------------------------------------
021040-0 OWANECO                                                           300    M 1971             115
475  TAYLORVILLE                                  0.00   0.00    0.00   0.016      0.0       0.0     0.0 M  6.00   2.0  1.75   00
    0          0            0        0.00         0.0  32080 11-05-80    *D*     12-82   3

-----------------------------------------------------------------------------------------------------------------------------
031234-0 PALATINE                                                        32166    M 1898            8223   FN PP  C
003  DRIFT AND ROCK WELLS                         0.00   0.00    7.77   3.910   2750.0    1250.0  4000.0 Q 12.00   4.0  2.22  3.57
   350        224          0         0.00         1.2  21080 07-08-81    *C*     12-82   2

-----------------------------------------------------------------------------------------------------------------------------
021045-0 PALMER                                                            250    M 1967             109   FA  C  I
001  DRIFT WELLS                                  0.00   0.14    0.17   0.016      0.0      35.0    35.0 M  6.00   2.0  1.50  3.00
   344        198          0         0.00         1.0  32010 02-01-84    *B*     04-84   3

-----------------------------------------------------------------------------------------------------------------------------
117080-0 PALMYRA                                                           864    M 1953             340
432  PALMYRA-MODESTO WTR COMM                     0.00   0.00    0.00   0.048      0.0     145.0   145.0    5.50   2.0  1.65  3.20
    0          0            0        0.00         0.0  32080 12-30-81    *D*     12-82   3

-----------------------------------------------------------------------------------------------------------------------------
031237-0 PALOS HEIGHTS                                                   11096    M 1958            4010    C
513  CHGO VIA ALSIP                               0.00   0.00    5.60   1.580   3000.0     250.0  3250.0 Q 24.00  12.0  1.80   00
    0          0            0        0.00         0.0  31080 08-26-81    *C*     12-82   2

-----------------------------------------------------------------------------------------------------------------------------
031240-0 PALOS HILLS                                                     16654    M 1968            4517    C
523  CHGO VIA OAK LAWN                            0.00   0.00    3.24   1.460   4000.0       0.0  4000.0 Q 19.20  12.0  1.53  1.60
    0          0            0        0.00         0.0  31080 04-22-81    *C*     12-82   2

-----------------------------------------------------------------------------------------------------------------------------
021050-0 PANA                                                             6030    M 1894  1974      2456   FA  C  P
103  LAKE PANA                                  991.00   0.00    3.02   0.740    543.0     500.0  1043.0 B  5.60   2.0  0.45  2.80
   185        162         52        0.00         0.9  11000 01-26-81    *A*     03-81   3

-----------------------------------------------------------------------------------------------------------------------------
005472-0 PANAMA                                                            625    M 1965             300
361  GREENVILLE                                   0.00   0.00    0.00   0.030      0.0      50.0    50.0 M  5.00   1.5  3.33  3.50
    0          0            0        0.00         0.0  30080 03-19-84    *D*     04-84   4

-----------------------------------------------------------------------------------------------------------------------------
045030-0 PARIS                                                           10000    M 1892  1939      4000   FA  C  P
149  PARIS TWIN LAKES                             0.00   0.00    2.07   1.130    514.0     500.0  1014.0 M  3.15   2.5  0.54  1.92
    0        244          0         0.00         1.0  30000 07-07-83    *A*     08-83   3A

-----------------------------------------------------------------------------------------------------------------------------
```

```
SERIAL                    F A C I L I T Y                                EST.POP. OWN START TREAT NO. OF   T R E A T M E N T
                                                                          SERVED   CD  YEAR  YEAR SERVICES     C O D E S
      S O U R C E  O F  S U P P L Y          IMPOUND   WELL   PLANT   PUMPAGE  S T O R A G E  C A P S. PAY MIN  AMT/PER $ PER 1000
                                             SUP.CAP. SUP.CAP. SUP.CAP AVG.CAP GROUND  ELEVATED  TOTAL  CD CHG 1000 GAL LOW   HIGH
  MINERAL  HARDNESS   HARD-NO-CARB   I R O N  FLUORIDE  INSPECTION INFO   OP CLASS UPDATE REGION
    FIN       FIN         FIN         FIN       FIN     CLASS  DATE      REQUIRED  DATE  NUMBER

031315-0 WESTCHESTER                                                      17730    M 1927            5916    C
526  CHGO VIA WESTCHESTER-BROADVIEW WC          0.00    0.00    11.50   1.980   2250.0       0.0   2250.0 Q 27.00   10.0  2.70  2.70
   0          0          0        0.00         0.0   31080 09-15-80     *C*      12-82   2

031318-0 WESTERN SPRINGS                                                  12876    M 1895  1931      4350    C  L
002  ROCK WELLS                                 0.00    3.26     4.32   1.260       0.0       1.0      1.0 Q 16.80    6.0  2.80
  535        104        80       0.05          1.3   31080 11-02-81     *A*      12-82   2

023020-0 WESTFIELD                                                          730    M 1913  1978       282    Z  I  C FA
003  DRIFT AND ROCK WELLS                       0.00    0.00     0.11   0.049      11.0      60.0     71.0 M  9.05    2.0  2.00  4.56
   0        243          0        0.09          0.8   32080 03-07-84     *B*      04-84   3A

043095-0 WESTMONT                                                         16718    M 1921  1942      4168    FA  C  Z  I
002  ROCK WELLS                                 0.00    7.85     6.48   1.860    1500.0     500.0   2000.0 Q  5.25    4.0  0.90  1.60
  750         75          0        0.10          0.5   31080 06-21-82     *B*      12-82   2

183095-0 WESTVILLE                                                         4100    M 1932            1725    C
377  INTER-STATE WTR CO. (DANVILLE)             0.00    0.00     0.50   0.350     555.0     250.0    805.0 M  2.80    2.0  1.40  0.57
   0          0          0        0.00         0.0   12080 12-13-83     *C*      02-84   3A

043105-0 WHEATON                                                          45000    M 1890  1974     12430    FA PP  C
002  ROCK WELLS                                 0.00   14.00    12.20   4.570    2700.0    3000.0   5700.0 Q  4.10    3.7  1.09  1.09
  630        564        220       0.80          1.1   31080 06-03-83     *C*      07-83   2

031497-0 WHEELING                                                         23266    M 1927            5063    PP FA  C
002  ROCK WELLS                                 0.00    6.55     0.00   2.610    1000.0    1700.0   2700.0 Q  0.00    0.0  1.90  1.90
  809        536        279       0.10          0.9   31080 12-08-82     *C*      02-83   2

117115-0 WHITE CITY                                                         210    M 1963             133
413  MT OLIVE                                   0.00    0.00     0.00   0.027       0.0       0.0      0.0 Q  7.00    2.0  2.20  3.50
   0          0          0        0.00         0.0   12080 06-10-82     *D*      12-82   3

061040-0 WHITE HALL                                                        3150    M 1897  1967      1260    FA  C  P
161  WHITE HALL LAKE                          131.50    0.00     0.72   0.220      77.0     100.0    177.0 M  6.00    2.0  2.50  3.00
  140        174         48       0.20          0.7   32000 11-15-83     *A*      12-83   3

195513-5 WHITESIDE COUNTY   COUNTRY ACRES MHP                               265    P 1963             106
002  ROCK WELLS                                 0.00    0.16     0.00   0.008       0.0      *7.4      7.4    0.00    0.0  0.00  0.00
  320        279         19       1.80          0.1   22088 08-23-83     *D*      12-82   1
```

DOCUMENT CONTROL NO. FIL0533GT-11

INDEX FORM FOR FIT FILES

This information does not have to be written out for each item to be filed. Instead, fill in Lines 1-3 and photocopy onto yellow paper to make the form obvious in the file. Then under line 4, check the respective box on the yellow sheets. Place the form directly in front of the material it represents.

1. TECHNICAL DIRECTIVE DOCUMENT (TDD) NUMBER: F05-8705-017
2. PROJECT ACCOUNT (PAN) NUMBER: FIL0533GT
3. SITE NAME AND LOCATION: Arlington Hts. Municipal Landfill
4. FILE DESCRIPTION (Check ONE Only):

RESERVED

___ TECHNICAL DIRECTIVE DOCUMENT(TDD)
___ ACKNOWLEDGEMENT OF COMPLETION(AOC)
___ PERFORMANCE EVALUATION REPORT
___ SITE SAFETY PLAN AND RELATED DOCUMENTS
___ SITE INSPECTION REPORT (EPA 2070-13)
___ HRS RANKING SYSTEM REPORT (HRS)

REPORTS

___ PRELIMINARY ASSESSMENT (EPA 2070-12)
___ PRELIMINARY ASSESSMENT DOCUMENTATION PACKAGE
___ FIT TECHNICAL MEMORANDA/REPORTS

PROJECT INFORMATION (Collected from non-FIT sources)

___ FEDERAL FILE INFORMATION
✓ STATE FILE INFORMATION
___ COUNTY/TOWNSHIP FILE INFORMATION
___ CITY FILE INFORMATION
___ SITE OWNER/OPERATOR FILE INFORMATION
___ GEOLOGICAL INFORMATION (e.g. well logs)
___ MISCELLANEOUS FILE INFORMATION

FIELD WORK (FIT GENERATED WORK)

___ WORK PLAN/SAMPLE PLAN
___ QUALITY ASSURANCE PLAN (QAPP)
___ FIELD NOTEBOOKS
___ PHOTOGRAPHS/SLIDES/NEGATIVES
___ SITE SKETCHES/MAPS
___ SAMPLE MANAGEMENT(Chain of Custody, etc.)
___ ANALYTICAL DATA Date _____
___ HYDROGEOLOGIC DATA (i.e., boring logs, pump tests, slug tests, etc.)
___ GEOPHYSICAL DATA
___ AIR MONITORING DATA
___ TELEPHONE CONVERSATION LOGS
___ MEETING NOTES/CONTACT REPORTS
___ CORRESPONDENCE

SUBCONTRACT MANAGEMENT

DRILLING SUBCONTRACTS

___ BID PACKAGE
___ BID REQUEST LETTERS
___ BIDDER'S SUBMITTALS
___ EVALUATION OF SUBMITTALS/MEMORANDUM OF JUSTIFICATION
___ REQUEST FOR SUBCONTRACT APPROVAL
___ CONTRACT
___ SUBCONTRACTOR'S DELIVERABLES
___ INVOICES/INVOICE VERIFICATION
___ CORRESPONDENCE

OTHER SUBCONTRACTS ( )

___ BID PACKAGE
___ BID REQUEST LETTERS
___ BIDDER'S SUBMITTALS
___ EVALUATION OF SUBMITTALS/MEMORANDUM OF JUSTIFICATION
___ REQUEST FOR SUBCONTRACT APPROVAL
___ CONTRACT
___ SUBCONTRACTOR'S DELIVERABLES
___ INVOICES/INVOICE VERIFICATION
___ CORREPSONDENCE

OTHER

___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____
___ _____

THE CITY OF GOOD NEIGHBOR

Cook Co-LPC 03100901
ARLINGTON HTS./MUNICIPAL

Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005
Area 312/253-2340

August 28, 1984

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Mr. Brad Benning
Environmental Protection Specialist
Field Operations Section
Division of Land Pollution Control
1701 South First Avenue
Maywood, IL 60153

Dear Brad:

Enclosed is a copy of the lab analysis report I received for the landfill leachate sample submitted to Aqualab, Inc. on July 5, 1984.

If you have any questions or further comments about this report, please call me at 253-2340 ext. 555.

Thank you for your time and assistance in this matter.

Sincerely,

Robert M. Livingston

Robert M. Livingston
Environmental Health Officer
Health Services Department

ss

pc: file

RECEIVED
SEP 10 1984
IEPA-DLPC

aquatlab inc.
rt 29 at valley lane
sarsaparilla illinois 60103
312 289-3100

17 August 1984

analytical report

sample no. 57341-341 A

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Heights IL 60005

SAMPLE DESCRIPTION: Leachate Sample

date taken: date received 7/5/84

Chloride	1140.	mg/L
COD	4590.	mg/L
Iron, total	1330.	mg/L
pH	5.79	mg/L
Phenol	1.82	mg/L

E.P. Toxicity RCRA:

Arsenic	0.010	mg/L
Barium	1.10	mg/L
Cadmium	0.034	mg/L
Chromium, total	0.091	mg/L
Lead	0.38	mg/L
Mercury	<0.0001	mg/L
Selenium	<0.01	mg/L
Silver	0.031	mg/L

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N Bucaro
Robert N. Bucaro

aqualab inc.
1020 airlite lane
streamwood, illinois 60103
312 289-3100

17 August 1984

analytical report

sample no. 57341

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Hts., IL 60005

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

SAMPLE DESCRIPTION: Leachate Sample

VOLATILE COMPOUNDS

ug/L	Compound	ug/L	Compound
<100	Acrolein (2V)	20.7	1,2-Trans-Dichloroethylene (30V)
<100	Acrylonitrile (3V)	<5	1,2-Dichloropropane (32V)
22.2	Benzene (4V)	<5	1,3-Dichloropropylene (33V)
600	Carbon Tetrachloride (6V)	<5 T	Ethylbenzene (38V)
<5	Chlorobenzene (7V)	<10	Methylene Chloride (44V)
7.5	1,2-Dichloroethane (10V)	<20	Methyl Chloride (45V)
600	1,1,1-Trichloroethane (11V)	<20	Methyl Bromide (46V)
700	1,1-Dichloroethane (13V)	<10	Bromoform (47V)
<10T	1,1,2-Trichloroethane (14V)	<5	Dichlorobromomethane (48V)
<10	1,1,2,2-Tetrachloroethane (15V)	<10	Chlorodibromomethane (51V)
<20	Chloroethane (16V)	<5 T	Tetrachloroethylene (85V)
<50	2-Chloroethylvinyl Ether (19V)	270	Toluene (86V)
<5 T	Chloroform (23V)	124	Trichloroethylene (87V)
<5	1,1-Dichloroethylene (29V)	<20	Vinyl Chloride (88V)
		1700	1,2-Cis-Dichloroethylene

T - Trace

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N. Bucaro
Robert N. Bucaro

RICHARD B. OGILVIE
Governor

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY

WILLIAM L. BLANK
DIRECTOR

June 7, 1972

IN REPLY REFER TO:
COOK COUNTY - Land Pollution Control
Arlington Heights/Municipal

Village of Arlington Heights
33 South Arlington Heights Road
Arlington Heights, Illinois 60005

ATTENTION: Gene Willroth
Director of Public Works

Gentlemen:

This will acknowledge receipt of your Application for Permit to modify and operate a solid waste disposal site, dated May 2, 1972 and received by this Agency on May 3, 1972.

A review of the Application has been completed and the following comments are made pursuant to that review:

The Agency is concerned about the fate of leachate that will be produced by water percolating through the refuse. If it is assumed that the density of the compacted refuse is 1000 lb./cu. yd., then approximately 1.455 billion pounds of refuse will eventually be deposited at the site. If it is further assumed that about 50 pounds of dissolved solids are leached from a ton of refuse, approximately 36 million pounds or 18,000 tons of dissolved solids will be leached from the refuse at the site. A considerable proportion of the dissolved solids contained in the leachate will remain in solution and thus pose a serious threat to the quality of the ground water in the vicinity of the landfill.

The borehole and well water levels indicate that the leachate will migrate horizontally and possibly vertically downward from the landfill. Based on a water level contour map of the water levels in the boreholes, it appears that the leachate will migrate primarily in a radial manner from the landfill at some time during or after the development of the site. In addition, a geologic log for a well drilled in 1940 which was located 200 feet south of Dundee Road and 1/2 mile west of State Road in Section 7, T. 42N., R. 11E. indicates that the static water level for the 26 foot thick sand and gravel aquifer over-

lying the bedrock was at an elevation of 687 feet or about 35 feet below the land surface. In the area of the landfill the static water levels are generally located much closer to the land surface. Consequently, it is assumed that a downward directed vertical hydraulic gradient exists. Thus, a ground-water monitoring program will have to monitor the water quality around the entire perimeter of the landfill and possibly beneath the landfill itself.

The potential for polluting ground water can be significantly reduced by installing a leachate collection system. The leachate collection system for each trench could consist of a perforated pipe laid along the trench bottom. A sand or gravel blanket about 6 inches thick on the trench bottom would help to convey the leachate to the collector with a low head loss. A low water table within the refuse would result. If lenses of sand and gravel are encountered on the trench bottom, or if the natural materials are not sufficiently impervious to contain a large portion of the leachate, a clay blanket should be placed over the permeable materials to minimize the quantity of water entering or leaving through the trench bottom. Lenses of sand and gravel outcropping on the trench walls should be sealed as indicated in exhibit D.

Ideally, the base of the trenches should be located well below the water table. If the fluid potential around the inside periphery of the trenches can be maintained at a lower fluid potential than the ground water in the soil surrounding the trenches, the ground water will continually flow towards the trenches. If the flow of ground water towards the trenches could be maintained throughout the period of time required for the leachate to become innocuous, no ground-water pollution could occur as a result of leachate seeping from the trenches.

Once the landfill has been completed, the quantity of ground-water recharge will be substantially reduced. Since clay lined trenches will be used where the soil is relatively permeable, the quantity of recharge reaching the ground-water reservoir under the site will be small. Initially, some of the precipitation entering the refuse through the final cover will be used to increase the moisture content of the refuse and the remainder will be removed by the tile drain system. Thus, the precipitation that recharged the ground-water reservoir prior to constructing the landfill would be prevented from recharging the ground water reservoir after the landfill has been constructed. Immediately after the construction of a trench, the underlying potentiometric surface will decline rapidly because of the low storage coefficient and because the ground water will be removed by both the tile drain system and the ground-water flow system. When the fluid potential of the ground water in the soil surrounding the trenches declines below the fluid potential of the leachate around the periphery of the trench, some leachate will leak from the landfill into the ground water. Once the hydraulic gradient is directed away from the trenches, leachate will migrate away from the trenches and

a significant potential for ground-water pollution would exist. Thus, even though the site can be designed to contain essentially all of the leachate initially, the percolation of leachate from the landfill into the surrounding ground water will eventually occur because of the reduced ground-water recharge in the vicinity of the landfill.

The quantity of contaminants reaching the ground water can be significantly reduced by allowing a large quantity of precipitation to percolate through the refuse. This condition can be achieved by using a permeable material such as sand or gravel for daily and final covers. An efficient leachate collection system would of course be necessary. By passing large quantities of water through the refuse, rapid stabilization of the refuse would occur and the leachate would contain relatively low total dissolved solids. If the leachate contains relatively low total dissolved solids and the loss of leachate from the landfill does not increase because of the increased rate of water movement through the refuse, the quantity of dissolved salts entering the ground-water flow system will be substantially reduced. The resulting ground-water pollution potential will be further reduced since the refuse will become stabilized in a relatively short period of time. Once the landfill has become stabilized and the leachate becomes relatively innocuous, a final cover of low permeability soil could be placed over the gravel cover, if so desired. Even with a gravel cover, several decades will probably be required before the refuse becomes completely stabilized. If the quantity of water percolating through the refuse can be maximized without significantly increasing the loss of leachate from the trenches, ground-water pollution and the time required for stabilization of the refuse will be minimized.

To approximately qualify the ground-water pollution potential of the proposed landfill, additional information will be required. Enclosed are the most recent set of instructions and application forms. These are enclosed only to clarify the hydrologic and geologic information that is generally required to allow a quantitative evaluation of a proposed landfill. They need not be filled out and submitted. The items of particular importance that should have additional information submitted are listed below:

1. The type of cover material to be used and the annual amount of water expected to percolate through the final cover into the refuse should be indicated.

2. The expected use of the site after the landfill operation has been completed should be indicated since the use of the site can significantly affect the amount of water entering the refuse through the final cover.

3. The height of the water table within the refuse above a typical trench floor should be indicated. The refuse would probably have a permeability of about 10^{-3} cm./sec.

4. In order to assess the rate of leakage of leachate from the landfill, the vertical coefficient of permeability of the fine grained material immediately underlying the landfill trenches should be evaluated.

5. An annual water budget should be calculated for the case where the water table has declined below the trench bottoms. The water budget should indicate the quantity of precipitation entering the refuse, the loss of leachate from the trenches by seepage through the sides and bottoms, and the discharge of leachate from the tile drains.

6. The method to be used for the disposal of the collected leachate should be indicated. Either sanitary sewers, or oxidation and/or reduction ponds could be used. If ponds are used to treat the leachate, where will the leachate be discharged?

7. The location and depth of ground-water quality monitoring wells should be indicated. These wells should be designed to monitor the ground-water quality near the existing and the proposed landfills. Upon review by the Agency of the proposed well sites, and depth intervals to be screened, it is a common practice to make the completion of the monitoring wells a condition of the permit. Details on the monitor well construction and method of installation should be submitted to the Agency upon completion. The monitor wells should be constructed using nonmetallic materials and should have a 2 inch I.D standpipe. The wells should be grouted along the entire length of the standpipe to prevent the movement of water down the annular space around the standpipe. Background water quality analyses will have to be conducted on water samples to be obtained from the monitoring wells.

8. Since several water mains and sewers are located near the landfill, the expected effect of any leachate in the ground water on the rate of corrosion of the mains and sewers should be indicated.

9. The A.S.T.M. specifications for the underdrain piping should be indicated along with a map showing the location of drains, if used. What is the maximum expected loading on the tile drains and how will the drains be protected from equipment operating on the site?

10. A program for monitoring the hydraulic characteristics of tile drains should be outlined. Breathers should be installed on the drains to facilitiate the addition of chemical solutions into the drains to remove any materials blocking the drains. Mechanical devices could also be used to clear a blocked drain.

11. Details for a leachate pumping station if used should be submitted.

12. The depth of the final cover that will be placed over the present landfill should be indicated.

13. What is the approximate volume of refuse that has been deposited in the landfill to date?

14. In general, what remedial measures will be taken if leachate seeps develop around the landfill or if serious ground-water pollution occurs.

15. The Illinois State Geological Survey has no record of a shallow well at the southeast edge of the property. If a copy of this log is available it should be sent to the Agency.

16. Two copies of the Report of Soil Investigation No. 1170 dated November 29, 1967 by the Illinois Drilling and Testing Company should be submitted.

17. A cross section through the proposed landfill should be submitted.

18. All data should be submitted in duplicate. Please submit additional copies of exhibits D & E.

19. What are the future plans for the Municipal Services Area and how will these plans modify the existing hydrology?

Based upon the above conditions this Agency must deny the Permit pending receipt of complete information.

Please be assured of our willingness to cooperate with you in every way possible. When the required data is received you may be assured of our prompt attention.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY

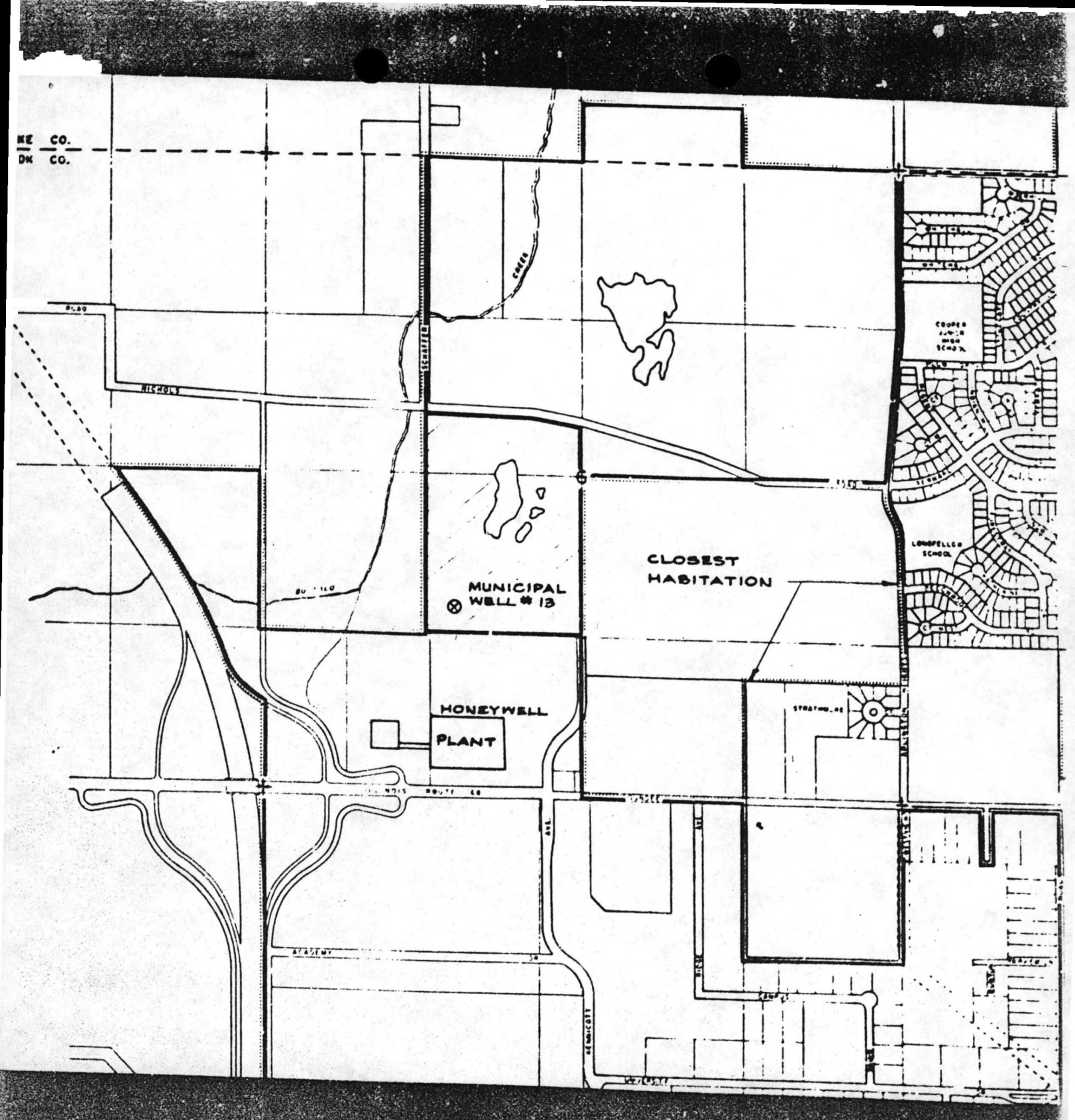
David W. Allman

David W. Allman
Environmental Protection Geologist
Division of Land Pollution Control

DWA/by

cc: Region II

Encl.


CO.
CO.
NICHOLS
SCHAFFER
CREEK
COOPER
LONGFELLOW
SCHOOL
CLOSEST
HABITATION
MUNICIPAL
WELL # 13
HONEYWELL
PLANT
STRATHMORE
ILLINOIS ROUTE 60
ACADEMY
HEMPCOTT

SOLID WASTE DISPOSAL

Field Inspection (X) Office Interview ( )

Cook CO. - S. W. D. REGION: VII

Arlington Hgts, Municipal (Location of Site) (Responsible Party) INSPECTOR(S): Stoser + Meyer

DATE: 7.7.70 TIME: 2:30 pm INTERVIEWED: —

SITE: (Proposed, (Existing), REGISTERED (Yes) No), APPROVED (Yes) No, N/A), DATE OPERATION STARTED: 1969

OPERATOR/LESSEE: Village of Arlington ADDRESS Heights PHONE:

PROPERTY OWNER: ADDRESS:

LOCATION: State Road + Mitchell Ave

LEGAL DESCRIPTION: Range 11E, Twp. 42N, Sec. 6, Quarter SW 1/4

Type of Terrain: Gravel Pit ( ), Quarry ( ), Clay Pit ( ), Strip Mine ( ), Gully ( ), Depth_____.
Upland ( ), Lowland (X), Swamp ( ), Other

Total Area: Area Completed:

ZONING: Industrial NEAREST MUNICIPALITY: Arlington Hgts (Name) 1 mile (Distance)

ADJACENT LAND USE: Industrial + Residential NEAREST HOUSE/BUILDING: on site (Distance)

AREAS/COLLECTORS SERVED: surrounding scavengers and public

Contracts Issued: (Yes), No)

AMOUNT OF REFUSE RECEIVED DAILY: At Present: 1500 cu. yds Anticipated: —

TYPES OF REFUSE RECEIVED: All - NO TOXIC WASTE

DISPOSAL RATES: $ DAYS & HRS. OF OPERATION:

DISPOSAL METHOD: Open Dump, (Landfill), Landfill Variation, Brush Burning, Approved Incineration, Open Burning, Other

LANDFILL METHOD: Trench, (Area Fill), Combination, N/A

TYPE AND CONDITION OF ACCESS ROAD: To Site: paved On Site: blacktop + gravel

METHOD OF RESTRICTING ENTRANCE TO SITE: gate

SHELTER AND SANITARY FACILITIES: Findings: ok

SALVAGE OPERATION: (Yes, (No) Findings:

DEPOSITING HAZARDOUS MATERIALS: (Yes, No) Types: _____

EQUIPMENT AVAILABLE: 2 sets.

COVERING REFUSE DAILY: (Yes, No) DEPTH: 6 inches, Sufficient Cover Available (Yes, No)

Findings: _____

Blowing Litter (Yes, No), Fencing Provided (Yes, No)

PROVIDING FINAL COVER: (Yes, No) DEPTH: 12 to 24 inches

Findings: _____

VECTORS: Findings: NO EVIDENCE

Control Activity: monthly

DUMPING IN WATER: (Yes, No) Water Depth: _____ inches, Site Subject to Flooding: (Yes, No)

Method of Diverting/Removing Surface Water from Site: _____

SURFACE WATER: Creek _____ (Name) River _____ (Name) Pond _____ (Name) Lake _____ (Name)

Distance from Fill (if within ½ mile) _____, Leachate from Fill into Water (Yes, No)

WELLS (Potable, Non-Potable): Distance from Fill (if within ½ mile) #1 _____ Feet/Yards

#2 _____ Feet/Yards, #3 _____ Feet/Yards.

Sample Taken: #1 (Yes, No), #2 (Yes, No), #3 (Yes, No), Ground Water Level: _____ (Feet)

FIRE PROTECTION ARRANGEMENTS: Arlington Heights Fire District

REMARKS:

Site is satisfactory.
GEB
SFM

ENVIRONMENTAL PROTECTION AGENCY
Office of Solid Waste Management Programs

Form Approved
OMB No. 158-R 71017

COMMUNITY SOLID WASTES PRACTICES
LAND DISPOSAL SITE INVESTIGATION REPORT

2

1. STATE [illegible] (2 3)
2. COUNTY [illegible] (4 5 6)
3. SITE LOCATION (Political Jurisdiction) [illegible] (7 8 9 10)
4. NAME OF SITE [illegible] (11 12 13)
5. ADDRESS OF SITE [illegible] 1 (14)
6. DATE OF SURVEY — DAY [illegible] (15 16) MONTH [illegible] (17 18) YEAR [illegible] (19 20)
7. NAME OF PERSON COMPLETING FORM [illegible]
8. TITLE [illegible]
9. ORGANIZATION AND ADDRESS [illegible]

10. POLITICAL JURISDICTIONS SERVED BY LAND DISPOSAL SITE

NAME OF POLITICAL JURISDICTION	ESTIMATED PERCENTAGE OF JURISDICTION SERVED BY SITE	AVERAGE DISTANCE OF SITE FROM CENTER OF SOURCE AREA (Miles)
(21 22 23 24)	(25 26)	(27 28)
(29 30 31 32)	(33 34)	(35 36)
(37 38 39 40)	(41 42)	(43 44)
(45 46 47 48)	(49 50)	(51 52)

FOR ADDITIONAL ENTRIES, CHECK HERE ☐ (53) AND MAKE ENTRIES IN ITEM #45

11. SITE OPERATED BY
- [X] PUBLIC AGENCY
- [ ] PRIVATE AGENCY

(54)

12. SITE OWNED BY
- [X] PUBLIC AGENCY
- [ ] PRIVATE AGENCY

(55)

13. IS OPERATION REGULATED BY A HEALTH AUTHORITY? ☐ YES ☐ NO

IF YES, INDICATE LEVEL OF PRINCIPAL AUTHORITY (Check one only): ☐ COMMUNITY ☐ COUNTY ☐ STATE ☐ OTHER _____ (Specify) (56 57)

14. GENERAL CHARACTER OF SITE (Check one only)
- [X] QUARRY OR BORROW PIT
- [ ] GULLY-CANYON
- [ ] LEVEL AREAS
- [ ] OTHER _____ (Specify)
- [ ] HILLSIDE
- [ ] MARSH, TIDELAND OR FLOOD PLAIN

Do not use (58)

15. YEAR SITE PLACED IN OPERATION 19 [ ] (59 60)
16. ANTICIPATED LIFE REMAINING (Years) [illegible] (61 62 63)
17. TOTAL AREA OF SITE (Acres) 0 0 5 6 (64 65 66 67)
18. AREA TO BE USED FOR LAND DISPOSAL (Acres) 0 0 5 6 (68 69 70 71)

19. ZONING/LAND USE SURROUNDING FACILITY (Check predominant type only) (72 73)

ZONING
- [ ] NONE
- [ ] RESIDENTIAL
- [ ] COMMERCIAL
- [ ] INDUSTRIAL
- [ ] AGRICULTURAL
- [ ] OTHER _____ (Specify)

LAND USE
- [ ] RESIDENTIAL
- [ ] COMMERCIAL
- [ ] INDUSTRIAL
- [ ] AGRICULTURAL
- [ ] OTHER _____ (Specify)

20. IS USE OF COMPLETED SITE PLANNED? ☐ YES ☐ NO

IF YES, CHECK PREDOMINANT USE ONLY: ☐ RECREATIONAL AREA OR PARK ☐ PARKING LOT ☐ LIGHT CONSTRUCTION ☐ HEAVY CONSTRUCTION ☐ AGRICULTURE ☐ OTHER _____ (Specify) ☐ USE NOT DETERMINED (74)

21. WILL PUBLIC AGENCY CONTROL COMPLETED SITE USE? ☐ YES ☐ NO

22. MATERIAL USED FOR COVER (Check one only): ☐ NONE [X] EARTH ☐ OTHER _____ (Specify) (75 76)

23. FREQUENCY OF COVER (Check one only): ☐ NONE [X] DAILY (End of each working day) ☐ DAILY (Except face) ☐ OTHER _____ (Specify)

24. IS SPREADING AND COMPACTION OF REFUSE HANDLED IN APPROXIMATELY TWO-FOOT LAYERS OR LESS? ☐ YES [X] NO (77 78)

25. NUMBER OF DAYS DISPOSAL SITE COULD NOT BE USED BECAUSE OF WEATHER CONNECTED CONDITIONS (Enter average per year) [ ] (79 80)

26. GENERAL CHARACTER OF OPERATION (Judgment evaluation - check appropriate categories) 2 (14)

APPEARANCE	IS BLOWING PAPER CONTROLLED?	IS BLOWING PAPER CONSIDERED TO BE A NUISANCE?	ROUTINE BURNING	ARE THERE SURFACE DRAINAGE PROBLEMS?	ARE THERE LEACHING PROBLEMS?
☐ SIGHTLY	☐ YES	[X] YES	[X] NONE	[X] YES	[X] YES
[X] UNSIGHTLY	[X] NO	☐ NO	☐ UNCONTROLLED	☐ NO	☐ NO
			☐ PLANNED AND LIMITED		
(15)	(16)	(17)	(18)	(19)	(20)

LAND DISPOSAL SITE INVESTIGATION REPORT (Page 2)

27. CONTROL PROGRAMS

		YES	NO	Do not use
RODENT CONTROL PROGRAM	NEEDED	[X]	[ ]	21
	PROVIDED	[X]	[ ]	22
FLY CONTROL PROGRAM	NEEDED	[X]	[ ]	23
	PROVIDED	[X]	[ ]	24
BIRD CONTROL PROGRAM	NEEDED	[ ]	[X]	25
	PROVIDED	[ ]	[X]	26
DUST CONTROL PROGRAM	NEEDED	[X]	[ ]	27
	PROVIDED	[ ]	[X]	28
ODOR CONTROL PROGRAM	NEEDED	[X]	[ ]	29
	PROVIDED	[ ]	[X]	30

28. IS LOWEST PART OF FILL IN WATER TABLE? [X] YES [ ] NO — 31

29. FIRE PROTECTION [ ] NONE [ ] WATER [ ] FIREBREAK [ ] OTHER _____ (Specify) — 32

30. NUMBER OF TIMES FIRE CONTROL EQUIPMENT WAS REQUIRED AT SITE IN THE PAST YEAR [ ][ ][ ] 33 34 35

31. IS SALVAGING PERMITTED? [ ] YES [ ] NO — 36

32. IS SALVAGING PRACTICED? [ ] YES [ ] NO — 37

33. ESTIMATED NUMBER OF LOADS DEPOSITED DAILY (Average)

FROM PUBLIC COLLECTION VEHICLES	FROM PRIVATE COLLECTION VEHICLES	FROM OTHER VEHICLES (Specify)
(Enter number) [ ][ ][ ] 38 39 40	(Enter number) [ ][ ][ ] 41 42 43	(Enter number) [ ][ ][ ] 44 45 46

34. ARE QUANTITATIVE RECORDS KEPT IN ANY FORM? [ ] YES [ ] NO Do not use 47

35. QUANTITIES OF SOLID WASTES RECEIVED ANNUALLY

TONS WEIGHED	48	49	50	51	52	53	54
TONS ESTIMATED	55	56	57	58	59	60	61
CUBIC YARDS	62	63	64	65	66	67	68

36. GENERAL CLASSIFICATION OF SOLID WASTES ACCEPTED AT DISPOSAL SITE (Check those accepted)

[X] HOUSEHOLD 70 [X] INDUSTRIAL 72 [X] INSTITUTIONAL 74
[X] COMMERCIAL 71 [X] AGRICULTURAL 73 [ ] INCINERATOR RESIDUE ONLY 75

37. CHECK ANY ITEMS LISTED BELOW WHICH ARE EXCLUDED FROM THE DISPOSAL SITE — 3 / 14

[ ] 15 ALL PUTRESCIBLES
[ ] 16 ALL NON-COMBUSTIBLES
[ ] 17 ALL COMBUSTIBLES
[ ] 18 GARBAGE
[ ] 19 DEAD ANIMALS
[ ] 20 WASTE OIL
[ ] 21 SEWAGE SOLIDS
[ ] 22 JUNKED AUTOMOBILES
[ ] 23 LARGE APPLIANCES
[ ] 24 DEMOLITION WASTES
[ ] 25 CONSTRUCTION DEBRIS
[ ] 26 STREET SWEEPINGS
[ ] 27 TIRES
[ ] 28 HAZARDOUS MATERIALS
[ ] 29 OTHER (Specify) _____
[ ] 30 OTHER (Specify) _____
[ ] 31 OTHER (Specify) _____ — 32
[ ] 33 OTHER (Specify) _____ — 34

38. EQUIPMENT AVAILABLE (Average utilized daily)

	NUMBER	
DRAGLINE OR SHOVEL-TYPE EXCAVATORS	35	36
SCRAPERS (Self-propelled)	37	38
TRACTORS (Track or Rubber Tire) (Bulldozer or High Lift Loader)	39	40
TRUCKS	41	42
OTHER _____ (Specify) Do not use 43	44	45
OTHER _____ (Specify) Do not use 46	47	48

39. TOTAL NUMBER OF EMPLOYEES ON SITE (Average daily) [ ][ ] 49 50

40. HOURS OF DAILY OPERATION (On a 24-hour clock) BEGIN [ ][ ] 51 52 END [ ][ ] 53 54

41. NUMBER OF DAYS OPERATED PER WEEK [ ] 55

42. ANNUAL OPERATING COST (Including supervision and equipment maintenance) $ [ ][ ][ ][ ][ ][ ][ ] 56 57 58 59 60 61 62

43. IS THIS A SANITARY LANDFILL? [ ] YES [X] NO — 63

44. IF SOURCES OTHER THAN REPORTER DESIGNATED IN ITEM 7 WERE UTILIZED IN COMPLETING THIS FORM, INDICATE BELOW THE SOURCES USED AND ITEM NUMBERS

NAME OF PERSON	TITLE	ORGANIZATION	ITEM NUMBER(S)
Gary Vacca	Sanitary Engr	DEQ EPA	All

LAND DISPOSAL SITE INVESTIGATION REPORT (Page 3)

45. CONTINUATION ITEMS

ITEM NO.	ADDITIONAL INFORMATION
	Surface water [illegible]

46. REMARKS (Attach additional sheet if necessary)

[illegible]

[illegible]

[illegible]

EPA-150-2 (Cont)
(Rev. 7-71)

SOLID WASTE DISPOSAL

Site Survey

COOK Co. - D.L.P.C. Date 11-15-73 Initials K.B.

ARLINGTON HEIGHTS / MUNICIPAL LANDFILL

Operation Began: 1968 E.P.A. Permit: Yes ( ) No (X)
Location: 1/2 MILE NORTH OF RT 68 (DUNDEE RD) ON KENNICOTT ST.

Property Description:
Upland ( ) Clay Pit ( ) Strip Mine ( ) Floodplain ( )*
Lowland ( ) Gravel Pit (X) Gully ( ) Hillside ( )
Soil Type:
Surface Drainage: NATURAL

Nearest Well: Public (X) Private ( ) Monitor ( )
Distance From Fill: ON SITE
Nearest Surface Water: Creek ( ) River ( ) Pond ( ) Lake ( )
Name:
Distance From Fill:
Site Protected From Flooding: Yes ( ) No ( )
*Dike Description:
Adjacent Land Use: INDUSTRIAL - AGRICULTURAL
Nearest Residence or Building: ON SITE
Communities Served:

Population Served:
Landfill Method: Area (X) Trench ( ) Combination ( ) Other:
Equipment: INT. E 200 SCRAPER INT. DOZER 250B
Disposal Rates: Per Ton Per Cu. Yd. Per Load
Days and Hours of Operation: Days Hours Per Week
Road Conditions: FAIR
Access Restrictions: FENCE + GATE
Shelter Facilities: OFFICE + GARAGE
Types of Waste Accepted: SITE IS CLOSED

General Description of Site and Operating Procedures:
SITE IS CLOSED, MANY AREAS COVERED AND SOME AREAS STILL RECEIVING FINAL COVER

ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

L P C F C 0 5 5 C
(1) (8)(9)

INSPECTION REPORT - SITE INVENTORY NO. 0310092 1
(11) (18)

COOK CO. - L.P.C. Region # 2 (19) Date 12/16/75 (20)(25)

ARLINGTON HEIGHTS MUNICIPAL Letter Sent (Yes or No) Y (26)
(Location) (Responsible Party)

Samples Taken: Yes( ) No(X) Time 02:50 pm-3:25 Weather CLOUDY 20°
Ground Water( ) Surface( ) Other( )
Photos Taken: (X) Yes No( ) Interviewed _____ Inspector R A W (27)(29)

Previous Inspection 10-9-75 Previous Correspondence 4-2-75 Site Open: Yes(X) No( )

OPERATIONAL STATUS:		TYPE OF OPERATION:		AUTHORIZATION:	
Operating	( )	Sanitary Landfill	(X) Storage ( )	E.P.A. Permit	( )
Temporarily Closed	( )	Random Dump	( ) Salvage ( )	Variance	( )
Closed Not Covered	(X)	Other _____	( ) A.C.D. ( )	21(e)	( )
Closed and Covered	( )	Quantity Received Daily 1 (30)		Board Order	( )
				Illegal	(X) 5 (31)

SITE EVALUATION

Leachate: Ponded on site (X) . . . . . 32 ___
Flowing on site (X) . . . . . 33 ___
Seeping (X) . . . . . 34 ___
Evidence of past flows (X) . . . . . 35 ___
Observed garbage( ) refuse(X) in standing water(X) BARRELS, CONCRETE . . . . 36 X
Flow entering surface water (5) . . . . . 37 ___
Flow leaving site (1-3) . . . . . 38 ___

Open Burning: Observed (5) . . . . . 39 ___
Underground fire (5) . . . . . 40 ___
Evidence of recent open burning (5) . . . . . 41 ___
No fire protection equipment provided (2) . . . . . 42 ___

Daily Cover: Open dumped garbage( ) refuse(X) observed(5) DOOR, WOOD, APPLIANCES, METAL . 43 5
Not provided on previous operating day (4) . . . . . 44 ___
Inadequate depth over entire site (3) . . . . . 45 ___
Inadequate depth over only a portion of site (1-2) . . . . . 46 ___

Intermediate Cover: Inadequate depth in portion(s) ( ) or entire( ) required areas(1-3). 47 ___

Final Cover: Inadequate depth in some areas (1-3) . . . . . 48 ___
Inadequate depth over entire site 60 days after site closure (4) . . . . . 49 ___
None 60 days after site closure (5) 50 5

Unloading not supervised (3) . . . . . 51 ___
Refuse not deposited at toe of slope ( )
Inadequate spreading and compacting ( )
Insufficient operable equipment on site as per permit application ( ) (2 ea. 2-8) . . 52 ___
Operational roads unsatisfactory ( )
Blowing litter( ), dust nuisance( ) observed, Odor detected( ) (1 ea. 1-3) . . . . . 53 ___
Permit( ) Board Order( ) Violation noted (2 ea. 2-4) . . . . . 54 ___
Liquid(?), Hazardous(?) Toxic(?) Waste accepted; not permitted( ) (1-5) Many empty barrels 55 3
Inadequate site restriction(X) site concealment( ) (2 ea. 2-4) . . . . . 56 ___
Inadequate: shelter( ), sanitary facilities( ), emergency communications( )(1 ea.1-3) 57 ___
Scavenging by: Operator( ) Others( ) observed (1-3) . . . . . 58 ___
Salvaging Observed( ): Improperly conducted in: Location( )Operation( )Storage( )(1-3) 59 ___
Evidence of vectors observed( ) (1-3) . . . . . 60 ___
Animal feeding observed( ) (1-3) . . . . . 61 ___

General Compliance ( ) Improvement Needed (X) Improvement Observed ( )

Signature of operator does not necessarily imply agreement with the above noted observations.

Approx. 100 empty barrels exposed near H2O Tank. Appears site has contained paint waste. Small colored crystals on ground near H2O observed. Signature (illegible)

RECEIVED
DEC 29 1979
I.L.E.P.A.-D.L.P.C.
STATE OF ILLINOIS

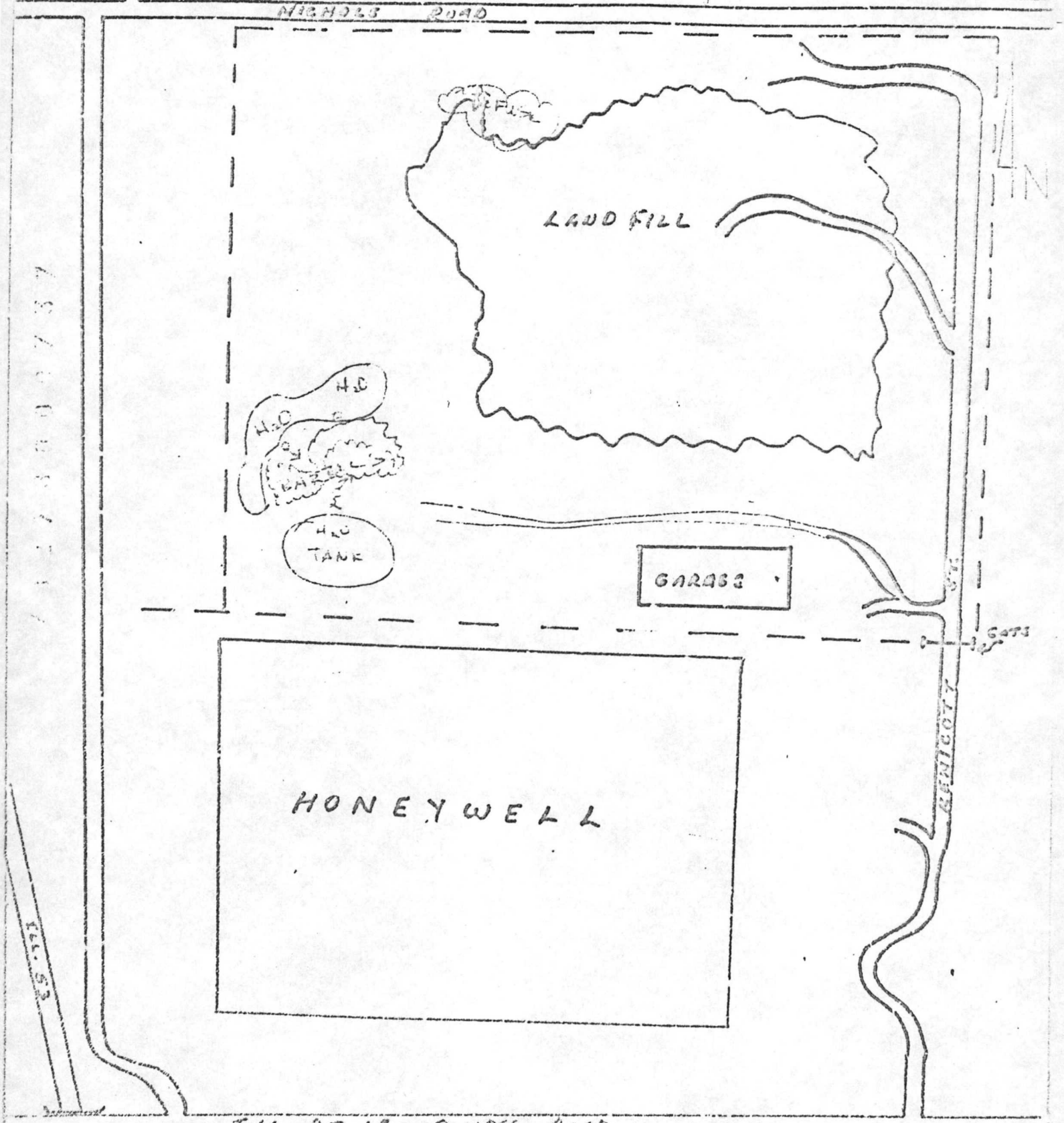
COOK COUNTY · LPC

ARLINGTON HEIGHTS / MUNICIPAL

PICTURES
1. Facing SE
2. Facing NE

DATE: 12-10-75

TIME: 2:50-3:25



312/896/5001
33 South Stolp Avenue
Aurora, Illinois 60506

January 8, 1976

IN REPLY REFER TO: 03100901
COOK COUNTY - Land Pollution Control
Arlington Heights/Municipal

Mr. Gene Willroth
Director of Public Works
Village of Arlington Heights, Municipal Building
33 South Arlington Heights Road
Arlington Heights, Illinois 60005

Dear Mr. Willroth:

The Illinois Environmental Protection Agency conducted an inspection of the above facility on December 16, 1975, and found the following apparent violations:

Open dumped concrete, wood, appliances and metal were observed.

The finished areas of your landfill have not received satisfactory final cover. Final cover, consisting of a minimum of two (2) feet of cover material, should be applied to all completed areas of the fill. The cover should be graded to provide surface drainage and prevent ponding. Final seeding is recommended for erosion control.

Approximately 100 55-gallon barrels (most of which appeared to be empty) were discovered in the southwest area of your site near the large water storage tank. An area of blackened earth and discolored water was observed adjouring the barrel disposal area. This area is to receive no final cover operations at present until we receive notification from you as to the disposition, quantity and nature of the barrel's contents. We expect notification from you concerning this matter within seven (7) days following receipt of this letter.

This information is provided to allow you the opportunity to verify or dispute the Agency's findings. I am available to discuss these apparent violations, and a program to correct such violations, at your convenience. I await your reply.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY

Dennis J. Johnson
Regional Supervisor
Field Operations Section
Division of Land Pollution Control

RW:ch
cc Northern Region
Cook County Dept. of Env. Control
150 N. Dearborn Street
Chicago, Illinois

STATE OF ILLINOIS
DEPARTMENT OF
REGISTRATION AND
EDUCATION
BOARD OF NATURAL
RESOURCES AND
CONSERVATION

ILLINOIS STATE GEOLOGICAL SURVEY

115 South Washington Street
Naperville, Illinois 60540
June 6, 1968

Dr. A. J. Zeisel
NIPC
400 West Madison
Chicago, Illinois

Dear Art:

This is in reply to your letter of May 27, to Jim Mackett, requesting information on the geology of an area in Sec. 6, T.42N.,R11E., Cook County, Illinois.

Our regional maps show that the glacial drift is approximately 175 feet thick overlying the Niagaran Series. Local sands more than 25 feet thick are present in the drift less than one mile to the south and may extend beneath the site; however, as our nearest well control is approximately one-half mile to the southeast, we cannot confirm this. Wells in the vicinity also show sands and gravels interbedded within the drift sequence, but their distribution is erratic. And while some interbedded sand and gravel may be present at this site, its depth and thickness would be difficult to predict.

There is a sand and gravel pit present on the site, but when we visited the area on June 2, 1966, this pit appeared to be abandoned. This sand and gravel deposit seems to be part of a series of poorly developed kames extending north and south through the site. The deposit is poorly sorted and contains inclusions of silt and till. Because of the nature of this deposit, we would not expect the sand and gravel to extend to any great depth but there is no indication that the base of this deposit was encountered when the pit was being mined and drilling would be necessary to positively determine its thickness.

Overburden ranges from three feet to more than ten feet and consists of silty clay overlying a discontinuous layer of silty clay till.

Water is present in the base of the pit and though it seemed to be at a higher level than normal because of the recent rains, the presence of a few cattails and reeds suggests that the pit intersects the top of the zone of saturation and will contain some water in its lower parts throughout the year.

In summary, there is approximately 175 feet of glacial drift in this area which may contain basal and interbedded sand and gravel deposits. Sand and gravel was mined from a kamic deposit on the site; however, this operation has been abandoned and the extent of the deposit remaining is not known. A drilling program should be initiated if more definite data are needed.

Yours truly,

George M. Hughes
Assistant Geologist
Northeastern Illinois Office
Section of Ground Water Geology
and Geophysical Exploration

0000200004240006101351

FILE NO. 1458

REPORT NO.

[illegible]

AT

[illegible]

[illegible]

OWNER	ARCHITECT - ENGINEER
VILLAGE OF ARLINGTON HEIGHTS, ILLINOIS	[illegible]
SITE	**PROJECT NAME**
NICHOLS AND SCHAEFFER ROADS COOK COUNTY, ILLINOIS	[illegible]

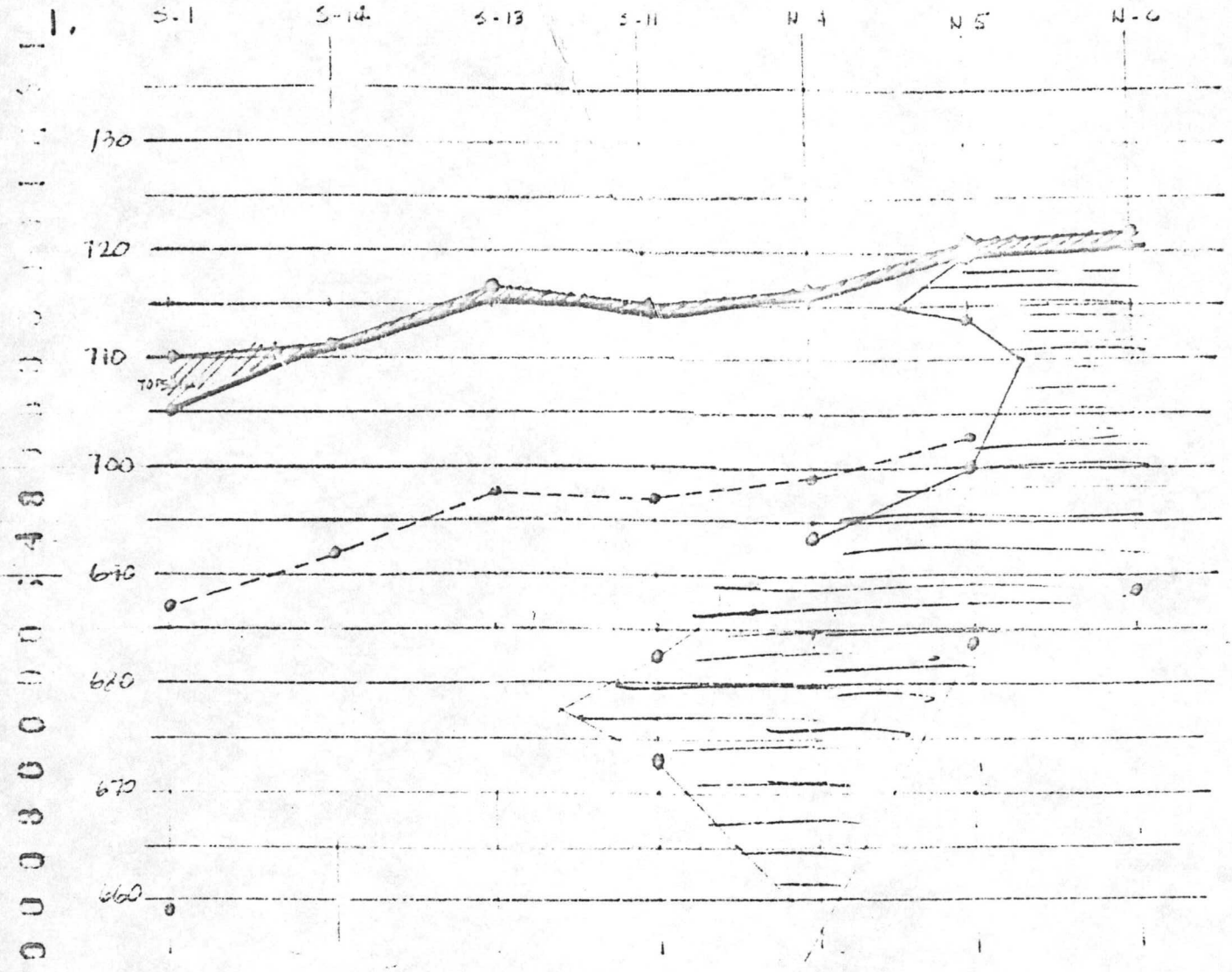
LA APR 24, 1985

2715 THATCHER AVENUE 60171 312 [illegible]

FORM [illegible]

COOK CO - LPC
ARLINGTON HTS / MUNI.

1.



2. ELEVATION OF BELOW SURFACE @ BORING S-11 IS SHOWN AS 721.3 ON THE "SOIL BORING LOG". THE MAP SHOWS S-11 @ ELEV. 717 ±.

N-7	- CLAY	6 -	1 -
-8	- "	5 -	2 -
9	-	4 -	3 -

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL

TELEPHONE CONVERSATION RECORD

COOK COUNTY - LPC

ARLINGTON HTS. / MUNICIPAL SITE INVENTORY NO. 0310090 1

Re:

Conversation With: GENE WILLROTH, DIR. PUB. WORKS - ARL. HTS.

⋈ I Called Party ( ) Party Called Me DATE: 2-18-76 TIME: 11:30 A.M.

What I Said:	What Other Party Said:
① I WAS AT THE LANDFILL YESTERDAY AND SAW THE BARRELS BEING COVERED.	
	② YES, THEY ARE ALL EMPTY.
③ BUT THEY MUST HAVE A RESIDUE IN THEM AS A FILM CAN BE OBSERVED FLOATING ON THE ADJACENT PONDED WATER.	
	④ YES, I'M SURE THEY DO. THE BARRELS CAME FROM AN ADJOINING IND. - THE HONEYWELL CO. THEY CONTAINED H_2O soluble cutting oils. WE HAD THE FULL ONES HAULED OUT TO LAKE LANDFILL. THEY WERE BROUGHT IN 2-2½ yrs. ago.
⑤ PLEASE SEND ME A LETTER TO THAT EFFECT + a COPY OF THE RECEIPT FROM LAKE LDFL.	
	⑥ WILL DO, HOWEVER, THE BARRELS MAY HAVE BEEN MIXED WITH GARBAGE.
⑦ SEND WHATEVER YOU CAN	

RECEIVED
FEB 20 1976
ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

Bob Wengrow

Title: EPS II

RECEIVED
SEP 13 1976
ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

STANLEY CONSULTANTS
208 SOUTH LASALLE STREET
CHICAGO, ILLINOIS 60604
TELEPHONE 312/263-0438

August 16, 1976

Citizens Action Committee
Against Flooding
33 S. Arlington Heights Road
Arlington Heights, Illinois 60005

Dear Members:

We are pleased to submit this preliminary draft of the Arlington Heights Landfill Site Master Plan for your review. Comments, concerns, and questions regarding the proposed Master Plan will be received at your August 31, 1976, meeting. The final plan will be based upon comments received at th's session.

We appreciate the opportunity to present this preliminary draft and are prepared to discuss the report at the August 31 meeting.

Respectfully submitted,

STANLEY CONSULTANTS

K W Jacobs

K. W. Jacobs

INTRODUCTION

Early in 1976, the Village of Arlington Heights initiated a study to determine the development potential of a 56-acre closed village land fill site at Nichols Road and Kennicott Avenue. The site was being considered as the disposal location for excavated material from the Village's flood control program. It was the requirement for filling which tied the study to the efforts of the Citizen's Action Committee Against Flooding (CACAF). This committee became responsible for the development of the Master Plan for the site.

Through the diligent efforts of this committee, village officials and the Arlington Heights Park District, this report and accompanying Master Plan were possible.

DEVELOPMENT CRITERIA

Basic guidelines had to be established for the ultimate use of the site before preparation of the Master Plan could begin. These guidelines had to be formulated and finalized as each major participant (village officials, CACAF Committee, and Arlington Heights Park District) had a slightly different view of the project. Development objectives were formulated early in the study.

Type of Use and Development Objectives

There was a consensus of opinion among the three local participating groups that the landfill site is a valuable asset and should be developed. The site is located at the northern limits of Arlington Heights in an area which is now predominately undeveloped. Trends, however, indicate that growth should occur in this section of the community. Development of this site could have significant effects and influences on future growth patterns in the northern sector of the community.

It was agreed that the best use of the site would be as a recreational facility. At this juncture, opinions differed as to the type of facility. After numerous discussions locally, the following guidelines were developed to assist in formulating a master development plan for the landfill site.

1. No additional landfilling operations were to be considered.
2. The ultimate use should be recreational in nature.
3. The use should produce revenues to offset a portion of the development and maintenance costs.
4. The final use should be of such a nature that on-going policing and maintenance by the Village and/or Park District would be minimized.

The above guidelines were used to develop alternative uses for the site.

DEVELOPMENT SELECTION

Some physical constraints were encountered in looking at various types of recreational facilities which could be developed on the site. First, the extreme topography limits some types of potential uses. Second, site development is hindered as a result of the landfill operation. For example, no excavation can occur in fill areas. Third, all storm water falling on the site must be retained, until a check for contaminates is made, treated if necessary, and then released into the natural drainage system.

A final constraint was the desire by the Village of Arlington Heights to retain the southern portion of the site for use by their public works department. Approximately 12 acres of the 56-acre site should be committed to this use.

Development Alternatives

Three basic alternatives were presented for analysis and discussion. A brief discussion of each is presented below. Included is a preliminary estimate of operation and maintenance costs, estimates of annual visitation and gross revenues.

Alternative I - Winter Sports Area/Archery Field Range - Representatives from the CACAF Committee and the Arlington Heights Park District strongly supported this alternative. Investigations into similar Chicago operations were made.

The principal concern for a winter sports area was availability of snow and slope orientation. The ideal orientation is north to northeast. The orientation at the landfill site is south to southwest. A representative of Hedco Inc., 11 Park Place, Parmaus, New Jersey, was contacted to determine if the south to southwest slope at the site precluded ski hill development. It was indicated that snow could be made in sufficient quantities to compensate for the poor slope orientation. However, the

south slope orientation dictates a shorter use season than a more favorable slope orientation.

Physical Facilities - Facilities include:

1. An area 300' wide by 600'-700' long which will be covered with artifical snow having two toboggan runs, two ski slopes, and a sledding area. All will be lighted for night use.
2. Rope tow.
3. Administration Building housing snack shop, equipment rental (ski, toboggan, archery), first aid, rest rooms, storage, and office space.
4. Pond for ice skating area.
5. Picnicking area with small playground.
6. Archery field range 28 targets and pathways.
7. Parking, entry road, and sidewalks.
8. Utilities.

Operation and Visitation - It is expected that the winter sports area would have a 50 to 65-day operating season. During this period, approximately 14 to 16 thousand persons could be expected at the facility. Additional usage could be accommodated if, during periods of natural snow cover, the entire site were opened to cross-country skiing. It will be necessary to have a staff of approximately eight full-time and 10 part-time employees during the winter season.

The field archery range would have a 32-week (224 days) season with approximately 2,500 to 4,000 visitations. Staff for this operation should number three full-time and four part-time employees.

Development Costs and Gross Revenues - Preliminary estimates for development costs ranged from $210,000 to $300,000. A general obligation bond issue at 5.75 percent amortized over 15 years would necessitate annual payments of $20,940 to $29,880. Preliminary estimates for annual gross revenues from this facility are $20,000-$25,000.

Alternative II - Trap and Skeet Facility - Prior to the initiation of this study, the Arlington Heights Park District and village officials had been approached by representatives of the Winchester-Western Corporation

regarding utilizing the landfill site for development of a shooting center. The Winchester-Western Corporation was contacted during the study to learn the specifics of franchized public shooting centers.

Shooting centers are leased from the landowner for 15 years with the landowner receiving a percentage f the gross revenue. In addition to the land, the owner is responsible for a portion of the site improvements.

Physical Facilities - Facilities usually provided by a local agency include:

1. Parking, entry road, and sidewalks.
2. Utilities.
3. Concrete shooting areas for three trap fields and five combined trap and skeet fields.
4. Eight trap houses, and six skeet towers with divider fence.
5. Buffer fence between parking and shooting fields.
6. Picnicking and playground equipment (optional).

Improvements which are normally the responsibility of Winchester-Western Corportion include:

1. All trap and skeet target equipment.
2. Wiring all fields.
3. Lighting all fields.
4. Construction of 2,400 square foot (minimum) clubhouse.

Operation and Visitation - Local agency involvement in daily operation would be minimal. Approximately two part-time employees would be responsible for general maintenance of the grounds and facilities which were installed by the local agency.

It is envisioned that the facility would be in operation 12 months a year and lighted for night activity. Based on these assumptions, visitation should exceed 100,000 annually within two years of opening. First year visitation should exceed 80,000.

Development Costs and Gross Revenues - Preliminary estimates for development costs include approximately $200,000-$245 000 by the local agency and $125,000 by Winchester-Wester. General obligation bonds amortized over 15 years at 5.75 percent interest would necessitate local agency payments of $19,920-$24,420 annually.

The gross revenue from the operation based on 100,000 visitation is estimated to range between $377,000 and $400,000 annually.

Alternative III - Combined Winter Sports Area and Trap and Skeet Facility - After discussions of Alternatives I and II, representatives of the Arlington Heights Park District, the Village of Arlington Heights, and the entire CACAF Committee agreed that investigations should be undertaken to determine the feasibility of a combined facility with the Park District being the operating agency. The combined facility is discussed below.

A combined winter sports and shooting center can be operated 12 months a year. However, because of a conflict in the "shot drop area" of the shooting fields, all shooting will have to be suspended during the winter sports season.

Physical Facilities - The combined facilities include:

1. Utilities.
2. Entry road, parking, and connecting sidewalks.
3. Buffer fence between parking and shooting fields.
4. Concrete shooting areas for three trap and three combined trap and skeet fields.
5. Six trap houses and four skeet towers with buffer fences.
6. Wiring and lighting all fields.
7. Clubhouse with snack shop, equipment rental (both winter sports and shooting), first aid, rest rooms, storage, and office.
8. Fire arms.
9. Parts and target inventory.
10. Ski area 350' wide by 600' to 700' long having two tobbogan runs, two ski slopes, and sledding area.
11. Snow-making equipment.
12. Rope tow and lighting for night use.
13. Warming house/picnic shelter.
14. Picnic tables, grill, and small playground.

Operation and Visitation - As with Alternative I, the winter season is expected to be 50-65 days. Visitation estimates are 14-16 thousand persons for the winter sports area. Again, additional visitation could be accommodated if, during periods of natural snow cover, the entire site were opened to cross-country skiing. To adequately handle the winter visitation, a staff of eight full-time and 10 part-time employees will be needed.

The shooting center should operate the remainder of the year. Given a 300- to 315-day season, it is possible to achieve 80,000 visitations annually. A staff of four full-time and 15 part-time employees will be required to accommodate the projected 80,000 visitations.

Development Costs and Gross Revenues - Preliminary estimates for the combined facility indicate a cost of $385,000 to $455,000 to the local agency. A general obligation bond issue amortized over 15 years at 5.75 percent interest would require annual payments of $38,180 to $45,120. An annual trap and skeet equipment rental of $13,500 should be added to operating costs. The fee includes maintenance by the company and is more economical than out-right purchase and maintenance of equipment by the local agency.

Gross revenues from the combined facilities based on 94,000 to 96,000 annual visitations is estimated to range between $285,000 and $315,000 annually.

Based on the preceeding analysis, the local agencies selected Alternative III for development. The project generally meets development guidelines discussed previously. It is recreational in nature and it will produce revenue. The major deviation comes with continued local involvement. As proposed, the facility will function solely as a part of the Arlington Heights Park District and not the Village of Arlington Heights. To achieve optimum success, the facility must be staffed with employees dedicated to the project and its success. In all probability, the person-power requirements of the proposed development may necessitate the hiring of additional park district employees. Any new employees can

come from within Arlington Heights, thereby increasing employment opportunity in the village.

The following table summarizes the three development alternatives.

MASTER DEVELOPMENT PLAN

The use recommended for the site by the Citizen's Action Committee Against Flooding, the Arlington Heights Park District, and village officials consists of a winter sports complex, a six-field public shooting center, and land for the village public works department. Figure 1 provides a conceptual sketch of the proposed development.

Site Development

As was mentioned previously, one major obstacle to ultimate development is the extreme topographic variations throughout the site. There is a 75-foot difference in elevation between the high and low points on the site. Before any facilities can be constructed, it will be necessary to substantially modify the existing topography. There are, however, two major criteria which must be considered when modifying the existing physical form.

First, the two principal mounds along the north and east sides of the site are the solid waste cells and cannot be disturbed. Addition fill can be placed on top of the present cover but no excavation can occur in these areas.

The second, and equally important, constraint is the necessity of retaining all storm water on the site. This runoff must be retained, monitored for possible contaminates, treated as required then released into the natural drainage system. Preliminary calculations indicate the necessity of providing retention for 16-acre/feet of storm water, based on a 100-year storm.

The most economical method of providing the required storm water retention is by furnishing additional capacity in the existing lake at the northwest corner of the site and by constructing a dry retention basin at the south end of this same lake. Holding the normal lake level at Elevation 706' with storage capacity to Elevation 709', would provide 10-acre/feet of storm water retention. The "dry" basin would be constructed immediately south of the existing lake. A dam with a manual drain should be built at the connection of the lake and retention basin.

During periods of heavy rainfall when the existing lake reaches Elevation 709', a valve in the "dry" basin would be closed and water stored as required. This arrangement would provide the additional acre/feet of storage necessary to handle all site runoff. Upon discharge of the storm water from the lake, the valve to the "dry" basin would be opened and drained.

Figure 2 shows the existing and the proposed contours on the landfill site. There are three principal areas of significant change. In the northeast corner, the area between the two existing mounds would be filled. Filling this gap will reduce sound levels from the trap and skeet operation at site boundaries.

The second major area of earth works occurs in the vicinity of the central lake. To facilitate the shooting center, parking, and clubhouse, this entire area must be reasonably level. This will require filling the lake and generally lowering the area immediately west.

The third area is around the two storm water retention facilities. Slight contour modifications will occur around the lake in the northwest corner. There should be significant restructuring of the contours around the "dry" basin. This will require limited amounts of additional fill material.

Based on the grading plan, a preliminary estimate of 75,000-80,000 cubic yard of fill material will be required to grade the site as shown on Figure 2.

Description of Facilities

As mentioned in the Development Selection portion of this report, the final use for the landfill site will be a combined winter sports complex and public shooting center. This portion of the report will briefly describe the various improvements delineated on Figure 3, Master Development Plan.

Entry and Parking - Public access will be afforded at the extreme northwest corner of the site, in the vicinity of Shaffer and Nichols Roads. Parking for 108 vehicles will be located in a linear fashion behind the trap and skeet fields. Security lighting will be provided in the parking area and along the entry road.

Clubhouse - The central structure on the site will be a 2,500-3,000 square foot facility which will be utilized by both principal uses. Space will be provided for snack shop, rest rooms, first aid room, offices, reception area, equipment rental and storage, equipment display and sales area, and general storage.

Winter Sports Area - This complex is located along the southern portion of the site. Facilities will include an area of about 400,000 square feet which should be capable of being covered with artifical snow. Two ski slopes with rope tow, a sledding area, and an area for tobogganing are needed. This area will be lighted for night use.

A warming house/picnic shelter will be located in the southwest corner of the site. The location will be adjacent to the "dry" storm retention basin which can be flooded and maintained for ice skating. Additional ice skating can occur on the permanent lake.

Shooting Facilities - Centrally located on the site will be the six shooting fields. Three will be designed for trap shooting and three to accommodate both trap and skeet shooting. Associated with the fields will be concrete shooting areas, required trap houses and skeet towers, buffer walls between shooting fields and a protective fence between the shooting fields and the parking area.

Site Amenities - Facilities to be provided include the existing lake in the northwest corner of the site, and the "dry" retention basin which can be used for open play area in the summer and ice skating in the winter. A combined picnic shelter/warming house is proposed at the foot of the ski slope. In addition, some picnic facilities and a small playground are shown. The entire site east of the shooting fields should be seeded with a minimal maintenance ground cover to reduce soil erosion on the slopes. The area west of the shooting fields should be seeded with bluegrass and well-maintained. Mass planting of deciduous and evergreen trees is recommended as indicated. The chain-link security fence should be extended along the west property line and along the unfenced portion of the south property line.

Public Works Area - The southern 11.5 acres of land have been reserved for use by the Arlington Heights Public Works Department. Access to this area will be from Kennicott Avenue. A buffer fence at the northern limits of this area should be constructed to control site usage.

Development Costs

Development costs can be broken down into preliminary site work, storm water retention, utilities, parking and entry road, clubhouse, ski slope facilities, shooting fields, site seeding and planting, site amenities (picnic facilities, shelter, playground), and security fencing. The following table details estimated development costs.

TABLE 2

ESTIMATED DEVELOPMENT COSTS

Improvements	Estimated Cost
Site grading and filling	Under separate contract
Storm water retention	
Retention structure	$20,000
Utilities	
Water	15,000
Electricity	5,000
Sewer (septic)	15,000
Parking and entry road	
Entry road and parking	50,000
Sidewalks	2,500
Lighting	6,000
Clubhouse	65,000
Winter sports	
Snow-making equipment	38,000
Rope tow	2,000
Lighting	2,000
Shooting center	
Three trap and three combined fields	86,100
Wiring and lighting all fields	37,500
Buffer fence	3,500
Fire arms	12,000
Inventory and parts	30,000

TABLE 2 (Cont.)

Improvements	Estimated Cost
Site amenities	
Shelter house	$10,000
Playground	2,500
Picnic tables and grills	1,500
Paths	4,000
Site seeding	
No maintenance area	20,000
Park area	18,000
Trees	12,500
Security fencing	
8-foot site enclosure	21,000
4-foot divider fence	8,100
TOTAL DEVELOPMENT COSTS (Based on contract costs, 1976)	$487,200

Source: Stanley Consultants, Inc.

Estimated cost of the proposed improvements is $487,200. This figure is slightly in excess of the cost range developed earlier in this report. However, these costs are based on bid prices and felt to be more realistic. Significant savings can occur if Village and Park District labor is utilized to construct improvements. Additional savings might also occur in purchasing materials if it were done through either the Village or Park District purchasing departments. It is believed that by utilizing these two options, total development costs can be reduced to the $385,000-$455,000 range established in the economic section of this report.

Development Schedule

Initiation of site development is tied to start of excavations of the second Wilke-Kirchoff project. It is expected this project will begin about April or May of 1977. Preliminary site development, excavation, filling,

compaction, and grading would occur during the 1977 construction season. The installation of all site improvements should be scheduled during the 1978 construction season with the project opening to the public in the spring of 1979.

SUMMARY

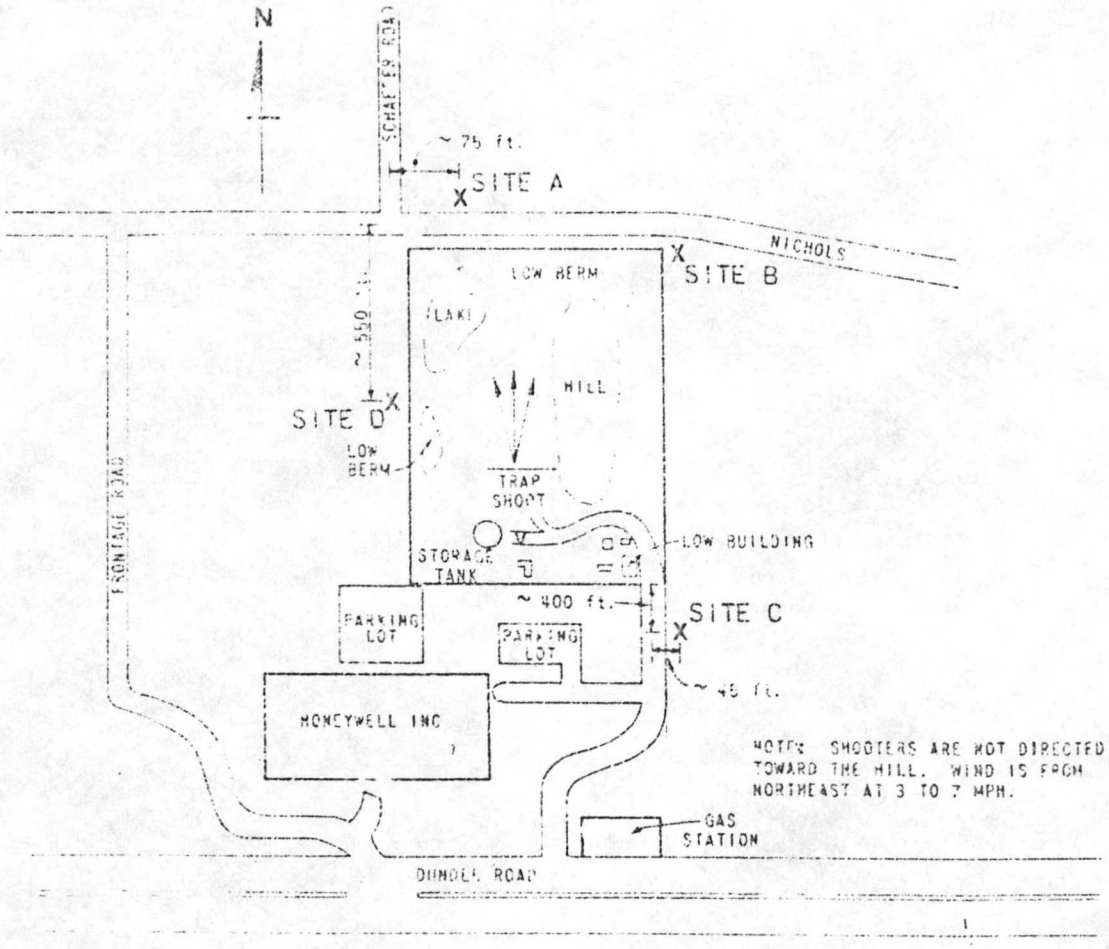
The project as desired by the Citizen's Action Committee Against Flooding, the Arlington Heights Park District, and Village of Arlington Heights is a significant undertaking, but one when completed, will offer residents of Arlington Heights and surrounding communities a diverse recreational opportunity. As designed, the proposed facility takes advantage of an unique parcel of village-owned real estate, it provides diverse winter and summer recreational opportunity to potentially 95 thousand plus individuals, and it will return some revenues to the village.

The success in developing this Master Plan was due to the invaluable assistance from the Citizen's Action Committee Against Flooding, the Arlington Heights Park District, and officials from the Village of Arlington Heights. The realization of the Master Plan will be based on the support of the citizens of Arlington Heights to assure that adequate revenues will be available to implement this plan.

Respectfully submitted,
STANLEY CONSULTANTS

K. W. Jacobs
Project Manager

Kenneth L. Wolf
Planner



ARLINGTON HEIGHTS LANDFILL SITE

Noise Survey Results

Ambient sound levels were measured at the four sites. The levels that were measured at these sites were between 25 dBA and 52 dBA. Table 1 shows the L_{10}, L_{50}, and L_{90} readings computed from the collected data. The collected ambient data and determination of L_{10}, L_{50}, and L_{90} are shown in Appendix B. As stated previously, the data was collected automatically resulting in less human error to bias the measurements.

CLOSURE PLAN

In conjunction with the development of a Master Plan for the landfill site, the Village of Arlington Heights wants to properly complete all necessary actions to "officially" close the site as a landfill. This necessitates the development of a Closure Plan.

Requirements and Site Deficiencies

The Land Permit Unit, Division of Land/Noise Pollution Control, Illinois Environmental Protection Agency (IEPA) was contacted to determine the established procedures for closure and/or the present deficiencies at the landfill site. According to IEPA there are no established guidelines governing the submittal of a closure plan. However, there were three specific items which must be improved before the state would determine the landfill operation properly closed.

The site deficiencies are:

1. Lack of adequate soil cover over the major solid waste cells. A minimum of two additional feet of cover properly graded and seeded to promote surface drainage is required.
2. Provision for ground water monitoring of all surface water to regulate possible leachate.
3. Termination of all dumping at the site.

Proposed Solutions to Site Deficiencies

The development of the Master Plan was initiated to provide the Village of Arlington Heights with 1) a viable recreational facility and, 2) an area for disposing of significant quantities of earth generated as a result of the Villages' flood control projects. In response to the three aforementioned deficiencies, the following action is proposed:

1. Figure 2 of this report indicated the proposed final grading plan for the landfill site. As shown the site would accommodate in excess of 500,000 cubic yards of additional earthen fill. This

material would be placed over majority of the site with significant concentrations over the two major solid waste cells at the north and east sides of the site. The new material would vary in depth from a minimum of 5 feet to more than 20 feet over existing contours. In addition, all ponded water on the site except the lake in the northwest corner would be filled. This fill will be graded and seeded to retard storm water runoff.

2. The Village has monitored surface water at the main lake. Storm runoff was retained, tested, treated (if required), and then pumped into the natural drainage system

   It is proposed that this same program be continued. However, with proper grading it is felt that all storm water generated from the site can be collected and retained in the single remaining lake. The lake is larger and sized to contain runoff in excess of a 100-year storm. As in the past, the storm water would be retained, tested, treated (if necessary), before it is pumped into the natural drainage system.

   The monitoring program will be conducted by the Arlington Heights Public Works Department.

3. The Village acknowledges that they have disposed of inorganic materials (broken concrete from street repair projects) periodically at the site. However, upon notice from the IEPA that this action was illegal, this practice has been terminated.

Summary

It is believed that development of this Master Plan and associated Closure Plan does answer the remaining questions and concerns regarding the landfill site. The Illinois EPA should be able to respond favorably. This action would allow for the appropriate closing of the site and provide for future development of the landfill as a viable recreational resource.

AQUALAB INC.

RECEIVED
MAR 24 1978
E.P.A. – D.L.P.C.
STATE OF ILLINOIS

ANALYTICAL REPORT

3 March 1978

ANALYSIS NO: 28357
28358
28359

• VILLAGE OF ARLINGTON HTS.
222 N. Ridge Avenue
Arlington Hts, IL 61312

Attn: Mr. ~~Don Renner~~ Al Lamb

DATE TAKEN	DATE RECEIVED	DATE ANALYZED
	2/23/78 1430	2/23/78

Date-Time Taken		Analysis No.	Sample Description
2/23/78	1300	28357	Landfill-Monitoring Well
2/23/78	1400	28358	Landfill-Monitoring Well-Lake (North)
2/23/78	1330	28359	Landfill-Monitoring Well-Lake (North)

	0.93 28357	0.30 28358	0.27 28359	
AMMONIA (N)				
Alkalinity	88.	122.	144.	mg/l
Boron	0.19	0.77	0.69	mg/l
Calcium	67.4	77.3	75.2	mg/l
Chloride	14.	236.	238.	mg/l
Chromium, total	0.003	0.006	0.003	mg/l
COD	361.	34.	14.	mg/l
Copper	0.005	0.004	0.002	mg/l
Hardness	256.	332.	324.	mg/l
Iron, total	1.04	0.14	0.08	mg/l
Lead	0.03	<0.01	<0.01	mg/l
Magnesium	24.1	36.4	35.8	mg/l
Manganese	0.68	0.017	0.011	mg/l
Mercury	<0.0001	<0.0001	<0.0001	mg/l
Nitrogen, NH_4	0.93	0.30	0.27	mg/l
pH	7.86	8.04	7.89	@ 25°C
Potassium	3.51	7.54	7.29	mg/l
Sodium	21.1	204.	191.	mg/l
Solids, totdiss,	390.	813.	880.	mg/l
Sulfate	200.	175.	178.	mg/l
Zinc	1.94	0.006	0.002	mg/l

J. K. Hamilton

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

2200 Churchill Road
62706

Springfield, Illinois
Phone:

RECEIVED
MAR 24 1978
E.P.A. - D.P.C.
STATE OF ILLINOIS

LAND POLLUTION CONTROL
COMPREHENSIVE WATER ANALYSIS LIST

	WELL	LAKE (No.)	LAKE (So.)
1. Alkalinity, as $CaCO_3$	88	122	144
2. Ammonia, as N	0.93	0.30	0.27
3. Boron (B)	0.19	0.77	0.69
4. Calcium (Ca)	67.4	77.3	75.2
5. Chloride (Cl)	14	236	238
6. Chromium (TOT)	0.003	0.006	0.003
7. COD	361	34	14
8. Copper (Cu)	0.005	0.004	0.003
9. Hardness, as $CaCO_3$	256	332	324
10. Iron (Fe)	1.04	0.14	0.08
11. Lead (Pb)	0.03	<0.01	<0.01
12. Magnesium (Mg)	24.1	36.4	35.8
13. Manganese (Mn)	0.68	0.017	0.011
14. Mercury (Hg)	<0.0001	<0.0001	<0.0001
15. pH	7.86	8.04	7.89
16. Potassium (K)	3.51	7.54	7.29
17. Sodium (Na)	21.1	204	191
18. Sulfate (SO_4)	200	175	178
19. Total Dissolved Solids	390	813	880
20. Zinc (Zn)	1.94	0.006	0.002

~~21. Percent Error (Cation and Anion Balance)~~

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY

RECEIVED

BUREAU OF SOLID WASTE

APPLICATION MUST BE SUBMITTED IN DUPLICATE

APPLICATION FOR PERMIT FOR CONSTRUCTION, INSTALLATION, MODIFICATION OR OPERATION OF SOLID WASTE DISPOSAL SITE AND TO REGISTER SITE IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION ACT

Village of Arlington Heights

1. Name of Owner (If corporation list name of corporation and name and address of officers)

33 S. Arlington Heights Road

Arlington Heights, Illinois 60005

Address of Owner

Village of Arlington Heights

2. Name of Site Operator — Address – City, County, Corp. or Company

Twin Hills Solid Waste and Recreation Area, 3700 N. Kennicott, Arlington Heights, Cook 60005

3. Name of Site or Facility — Address of Installation: (Street, City, County, Zip Code)

Village of Arlington Heights

(Inside Incorporated limits--City Name) — (Outside city limits--Indicate Township)

Location of Project Cook (County) Arlington Heights, Illinois (Municipality, etc.)

Application is hereby made to the Environmental Protection Agency of the State of Illinois for the issuance of a permit TO INSTALL

Sanitary Land Fill

(Describe briefly the site or facility for which application is made)

_____ and to operate said

facility as more fully shown on accompanying detail plans and specifications prepared by

Village of Arlington Heights — Allen J. Sauger

(Name of owner or engineer) — (If engineer, Illinois Registration No.)

ALLEN J. SAUGER 62-28961 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Acting as my agent (Delete if not applicable

Said plans consisting of _____ sheets and entitled _____

_____ being made a part hereof.

8. Provide topo map with contour intervals not greater than 5 feet.

9. Length, width and depth of proposed trench 400' x 100' x 18'

maximum number of trenches at one time if trenches are used. 2

10. Equipment to be used:

(a) Number & Type of Units 2 Scrapers, 2 Loaders, 1 Dozer (b) Size of Each 1-10 yd. scraper, 1-20 " ", 1-2½ " loader, 1-4 " "

11. Indicate method of handling and treatment of any leachate. Show on topo map method of diverting surface or storm water runoff and the stream or water course; indicate the frequency in days per year the site will be subject to being flooded

None

12. What method and/or equipment is proposed for the control of fires Fire Extinguishers on all equipment.

Also two in office - 7000 G.P.M. Municipal Pumping Station adjacent to Landfill - supplemented by Arlington Heights Municipal Fire Department.

13. The area proposed will be adequate to serve the area population for a number of years 6 to 1978.

14. SUBMIT A LEGAL DESCRIPTION OF SITE. That part of the East half of Government Lot 1 of the Northwest quarter of Section 6, Township 42 North, Range 11 East of the Third Principal Meridian, lying South of the center line of the gravel road known as Nichols Road, and also the Northeast quarter of the Southwest quarter of sai Section 6, Township 42 North, Range 11, East of the Third Principal Meridian, all in Cook County, Illinois.

TO BE COMPLETED BY ENGINEER OR OWNER

LOCATION SKETCH. Show area of site or facility, closest water well, habitation, quarter section, section, township and range. (This information is in addition to the detail plans and specifications for construction and operation)

See attached 8½ x 11 area map

PROJECT APPROVAL

Solid waste disposal site or utility: By indicating their approval hereon, the signers hereby attest that the proposed refuse or solid waste disposal site or proposed site improvements or additions thereto will be under proper supervision of a qualified operator or other responsible person.

FOR CONSTRUCTION OR ESTABLISHING APPROVAL Date _____

_____ _____
(Signature of Applicant or Agent) Title: Owner, Installer or Agent

FOR OPERATION AND MAINTENANCE APPROVAL

Gene Willroth Director of Public Works
(Owner, Installer, or Agent) (Title)

Attested February 22, 1972 Allen Sandy Director of Engineering
(Date) (Signature) (Title)

THE FOLLOWING INFORMATION IS REQUESTED

1. Size of area in acres 58. Also give length and width 1840' x 1300' feet.
2. Volume and/or weight of waste anticipated per day 800 yds. month 20,000 year 242,500.
3. The number of days per week the site will be open for operation 6.
4. Population to be served 90,000-100,000.
5. Type of waste or refuse to be handled at this site Garbage (Garbage, Brush, Concrete, Chemical or Toxic Materials, etc.).
6. Distance to the nearest water well on site; to the nearest residence 500 ft.
7. Depth to the water table from the proposed base of landfill operation in feet _____.

intervals not greater than 5 feet.

h on ... ch ... used trench 400' x 100' x 18'

maxim... ...ches at one time if trenches are used. 2

10. Eq... used:

(a) Number & Type of Units 2 Scrapers, 2 loaders, 1 Dozer (b) Size of Each 1-10 yd. scraper, 1-20 " ", 1-2½ " loader, 1-4 " "

11. Indicate method of handling and treatment of any leachate. Show on topo map method of diverting surface or storm water runoff and the stream or water course; indicate the frequency in days per year the site will be subject to being flooded

None

12. What method and/or equipment is proposed for the control of fires Fire Extinguishers on all equipment.

Also two in office - 7000 G.P.M. Municipal Pumping Station adjacent to Landfill - supplemented by Arlington Heights Municipal Fire Department.

The area proposed will be adequate to serve the area population for a number of years 6

A LEGAL DESCRIPTION OF SITE. That part of the East half of Government Lot 1 of the Northwest quarter of Section 6, Township 42 North, Range 11 East of the Third Principal Meridian, lying South of the center line of the gravel road known as Nichols Road, and also the Northeast quarter of the Southwest quarter of sai Section 6, Township 42 North, Range 11, East of the Third Principal Meridian, all in Cook County, Illinois.

TO BE COMPLETED BY ENGINEER OR OWNER

LOCATION SKETCH. Show area of site or facility, closest water well, habitation, quarter section, section, township and range. (This information is in addition to the detail plans and specifications for construction and operation)

See attached 8½ x 11 area map

03100901

I P.C. COMPLAINT INVESTIGATION F

Cook County - C85-07N

Arlington Heights / Muni? ( )

Date Received 7-12-84 By RJP By Phone X In Person ___ By Mail ___

Complainant A.T. Berk Respondent Village of Arlington Hts

Address c/o Terramere Home Owners Assoc. Address Public Works

Telephone 4015 Terramere Arlington Heights 60004 577-8521 Telephone 253-2340

Directions to Source

Complaint Details Apparent leachate seep noted from north slope of old landfill at Dundee + Nickels in northern Arlington Heights.

****

INVESTIGATION FINDINGS

Date 7-18-84 Time 10:00 Am By BRAD Benning

Interviewed — Weather 78° DRY Photos NO

Violations Observed Site Accepting concrete and asphalt along with soil. Met with Bob Livingstn of Arlington Hts Health Dept., drove around the site, the leachate problem on the noth side had been corrected by the Public Work

Respondent's Remarks Dept. Site is still applying cover material for end use of area as recreational site. Health Dept. is running analysis on the leachate.

A.T. Berk was notified of the inspection. 7-19-84

****

FOLLOW-UP ACTION

Refer to No Follow-up

File Opened - Yes ___ No X

CC: northern
KPB

RECEIVED
JUL 23 1984
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

IL 532-0335
LPC 41 Rev. 11/81

ILD 981193428

EXECUTIVE SUMMARY

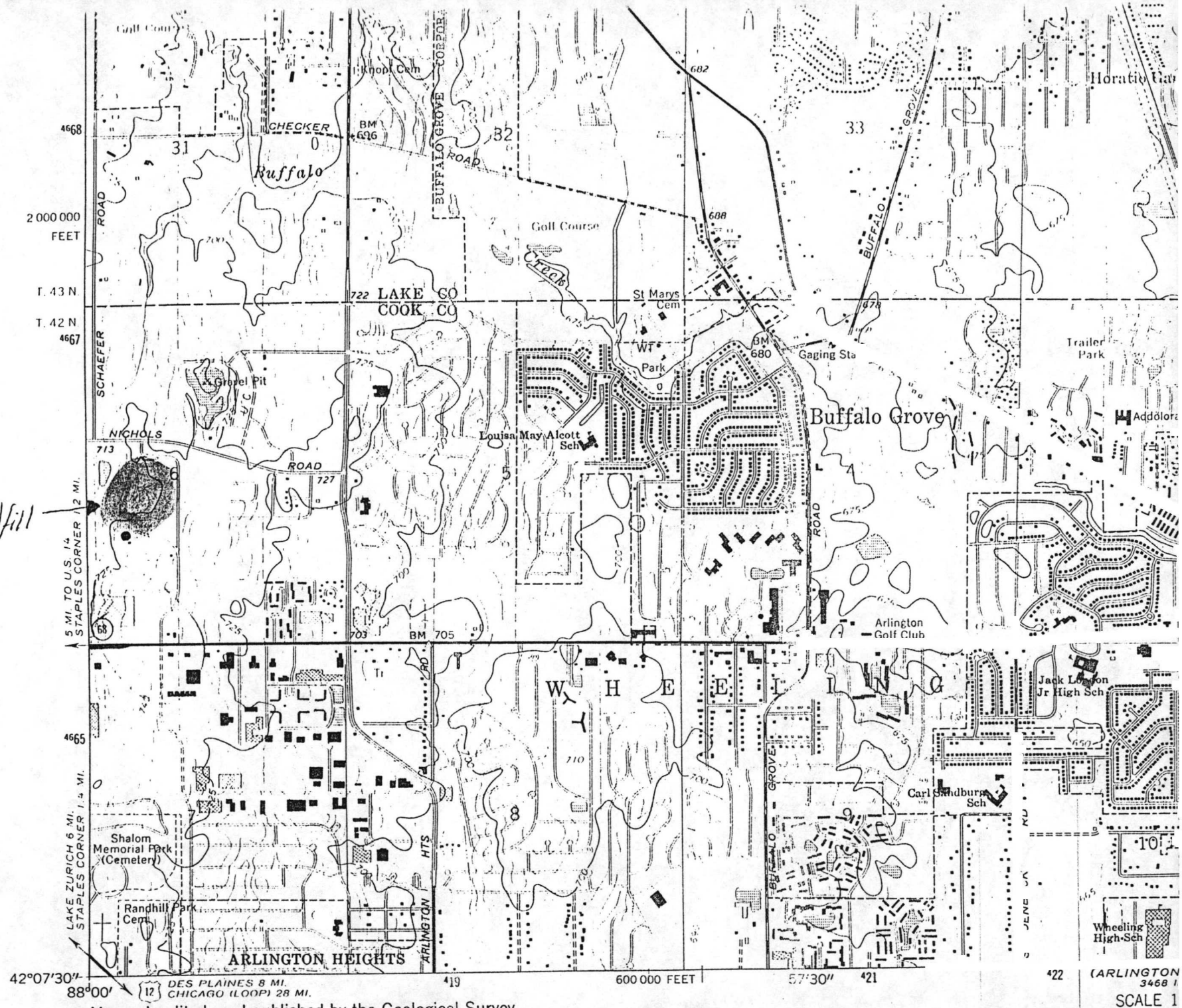
Arlington Heights Municipal Landfill is permitted to accept general municipal refuse. The problems that existed at this facility were operational problems; blowing litter and inadequate final cover.

This site is in the process of applying final cover. After final cover is applied the park district would like to use the area as a golf course.

From the information reviewed on this site, no major problems exist. A low priority is assigned. An inspection should be performed to insure adequate final cover is applied.

KLP:jp:4/16 (4/28/86)

Arlington Heights
Municipal Landfill



Mapped, edited, and published by the Geological Survey
in cooperation with State of Illinois Geological Survey

Control by USGS, USC&GS, and Cook County Highway Department

ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

L P C F C 0 5 5 C
(1) (8) (9)

OBSERVATION REPORT - SITE INVENTORY NO. 0 3 1 0 0 9 0 1
(11) (18)

Cook CO. - L.P.C. Region # N Date 02/18/81
(20) (25)

Arlington Heights / Municipal Letter Sent (Yes) or No) Y
(Location) (Responsible Party) (26)

Samples Taken: Yes ( ) No (X) Time: From 11 : 00 Am Weather 40°-foggy-mud
Ground Water( ) Surface( ) Other( ) To 11 : 30 Am
Photos Taken: Yes ( ) No (X) Interviewed no one present Inspector B L E
(27) (29)

Previous Inspection 10-21-80 Previous Correspondence 10-27-80 Site Open: Yes(X) No( )

OPERATIONAL STATUS:		TYPE OF OPERATION:				AUTHORIZATION:	
Operating	(X)	Landfill	(X)	Storage	( )	E.P.A. Permit	( )
Temporarily Closed	( )	Random Dump	( )	Salvage	( )	Variance	( )
Closed Not Covered	( )	Other _____	( )	A.C.D.	( )	21(e)	( )
Closed and Covered	( )	Quantity Received Daily(1-6)		1 (30)		Board Order	( )
						Illegal (5)	(X) 5 (31)

IMPROVED

SAME

DETERIORATED

RECEIVED
MAR 23 1981
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

LPC 4 1/79 5,000

I S or (D) D
(62)

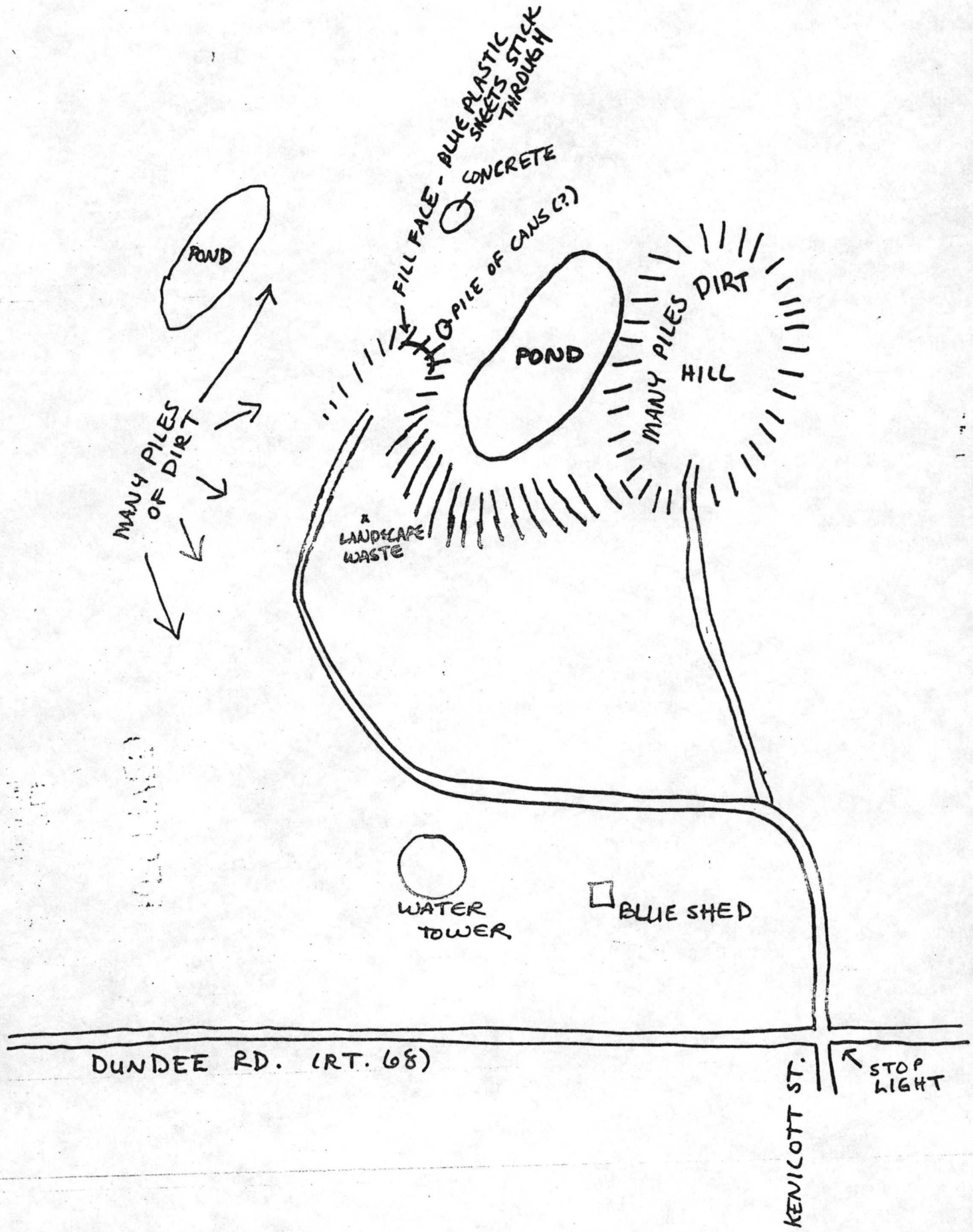
GENERAL REMARKS: There was no one present on the site. Conditions were extremely muddy. The 2 areas of refuse (near blue shed + near water tower) observed previously had been removed. No leachate was observed on the west slope of the hill. Dirt, + some broken asphalt, had been pushed over the top, down the slope of the hill. There were many piles of dirt on top of the hill. On the west side of the pond, it appears that filling

INTERVIEW: has been taking place, moving in a northerly direction. At the face, blue plastic sheeting could be seen sticking out. At the base of the face was a pile of what appeared to be cans, silver in color. (I was unable to get close enough due to the mud) It appeared that this lift was being filled in a downslope manner, for the road curb on its top.

DIAGRAM:

COOK CO. - [illegible]
ARLINGTON S./MUNICIPAL

DATE: 2-10-01
TIME: 11:00-11:30 AM



(NOT TO SCALE)

Illinois Environmental Protection Agency

1701 S. First Street Maywood, IL. 60153

312/345-9780

Refer to: Cook County - 03100901 - Arlington Heights/Municipal

March 18, 1981

Village of Arlington Heights
Municipal Building
33 S. Arlington Heights Road
Arlington Heights, Illinois 60005

Allan J. Sander
Department of Public Works
Village of Arlington Heights
Arlington Heights, Illinois 60005

Gentlemen:

A reinspection of your property located north of Dundee Road, off Kenicott Street, in Arlington Heights, Ill. was made by Bonnie Eleder, representing this Agency on February 18, 1981.

The investigation disclosed the following condition(s) which constitute violations of the Illinois Environmental Protection Act and Chapter 7 of the Illinois Pollution Control Board Rules and Regulations on Solid Waste:

... Solid waste was observed west of the large pond. These materials should be collected and properly disposed of.

It was noted that cover material has been applied to the west slope, near the large pond, but that some exposed asphalt remains at the base of the slope.

The application of final cover to the site should be completed as soon as possible.

We are requesting a reply to this letter indicating your intentions in regard to the above.

Sincerely,

Kenneth P. Bechely, Northern Region Manager
Field Operations Section
Division of Land/Noise Pollution Control

KPB:BLE:prg

cc: Division File
Northern Region
Cook County Department of Environmental Control

RECEIVED
MAR 23 1981
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

THE CITY OF GOOD NEIGHBORS

Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005
Area 312/253-2340

March 23, 1981

Mr. Kenneth P. Bechely
Northern Region Manager
Illinois Environmental Protection Agency
1701 South 1st Street
Maywood, Illinois 60153

Re: Cook County - 03100901-- Arlington Heights/Municipal

Dear Mr. Bechely,

Please be advised that the materials lying west of the large pond at the inactive Arlington Heights landfill site have been disposed of. These small amounts of exposed asphalt that lie at the base of the west slope of the hill will be covered as soon as sufficient cover material can be dumped from the top of the hill. Access to the west slope is difficult and we cannot risk losing our equipment in the somewhat unstable ground conditions. New cover material is coming in daily to the site.

Because of the long range proposed plans for the site require importing tremendous quantities of earth, it will be some time before the final topsoil is placed and the site fully seeded. We are, in the meantime, trying to keep close control on any and all trouble spots which may occur.

Yours truly,

Allen J. Sander
Director of Public Works

AJS:nla

RECEIVED
MAR 27 1981
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

ENVIRON AL PROTECTION AGENCY, STATE O LINOIS

L P C F C 0 5 5 C
(1) (8) (9)

INSPECTION REPORT - SITE INVENTORY NO. 0310090L (11) (18)

Cook Co. - L.P.C. Region ~~S~~ N (19) Date ~~01 04 83~~ 01/04/93 (20) (25)

Arlington Hts / Municipal
(Location) (Responsible Party)

Letter Sent (Yes or No) Y (26)

Samples Taken: Yes ( ) No (X) Time: From 9:30 am
Ground Water( ) Surface( ) Other ( ) To 10:30 am
Photos Taken: Yes (X) No (X) Interviewed B Schoenbeck

Weather 25° Sunny

Inspector G J S (27) (29)

Previous Inspection 9/16/82 Previous Correspondence 3-18-81 Operating: Yes (X) No ( )

OPERATIONAL STATUS:		TYPE OF OPERATION:				AUTHORIZATION:	
Operating	(X)	Sanitary Landfill	(X)	Storage	( )	E.P.A. Permit	(X)
Temporarily Closed	( )	Random Dump	( )	Salvage	( )	Variance	( )
Closed Not Covered	( )	Other	( )	A.C.D.	( )	21 (d)	( )
Closed and Covered	( )	Quantity Received Daily (1-6)				Board Order	( )
			(30)			Apparent Non-Compliance (5)	X (31)

SITE EVALUATION

Leachate:	Ponded on site (X)	32	
	Flowing on site (X)	33	
	Seeping (X)	34	
	Evidence of past flows (X)	35	
	Observed garbage ( ) refuse ( ) in standing water (X)	36	
	Flow entering surface water (5)	37	
	Flow leaving site (1-3)	38	
Board Order:	Apparent violation observed (5)	39	
Court Order:	Apparent violation observed (5)	40	
Permit:	One apparent violation (5)	41	
	Additional apparent violation(s) (2)	42	
Daily Cover:	Not provided on previously deposited refuse (5)	43	
	Not provided on previous operating day (4)	44	
	Inadequate depth over area ≥ 3 days operation (3)	45	
	Inadequate depth over area ≤ 2 days operation (1-2)	46	
Intermediate Cover:	Inadequate depth in required areas in acres (1-3)	47	
Final Cover:	Inadequate depth 1-3 acres (1-3)	48	1
	Inadequate depth 3 or more acres (4)	49	
	None 60 days after area closure (5)	50	
Unloading not supervised(3)		51	
Refuse not deposited at toe of slope( ) / Inadequate spreading and compacting ( ) / Insufficient operable equipment on site as required ( ) / Operational roads unsatisfactory ( ) — (2 ea. 2-8)		52	
Blown Litter( ) dust nuisance observed( ) Odor detected( ) (1 ea. 1-3)		53	
Burning (4)		54	
Liquids( ) Solids( ) not permitted (5)		55	
Inadequate site restriction( ) Site concealment( ) (2 ea. 2-4)		56	
Inadequate: Shelter( ) Sanitary Facilities( ) Emergency Communicatons( ) (1 ea. 1-3)		57	
Scavenging by: Operator( ) Others( ) observed (1-3)		58	
Salvaging Observed( ): Improperly conducted in: Location( ) Operation( ) Storage( ) (1-3)		59	
Evidence of vectors observed ( ) (1-3)		60	
Other (1-3)		61	

*One area in south west slope remains inadequate, other areas will be verified upon completion

IL 532-0548
LPC 5 Rev. 8/82

Signature Owner/Operator B Schoenbeck
(Signature indicates copy of inspection received at site)

ILLINOIS EPA

ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

INTER-OFFICE CORRESPONDENCE

DATE: 1/04/83

MEMO TO: File

FROM: Glenn Sternard

SUBJECT: Cook COUNTY – D.L.P.C. Inspection

Arlington Hts / Municipal

03100901

GENERAL REMARKS: I met J. Schoenbeck on site on the above date. Since 9/16/82 much filling on site had been achieved. However, the village had not contacted this Agency to report on site status.

INTERVIEW: The area on the SE slope of the hill apparently is still lacking sufficient cover according to Mr Schoenbeck.

DIAGRAM: Mr Schoenbeck again stated that he would notify the Agency when cover is applied, so that the final cover check may be completed.

IPC-19

RECEIVED

NOV 03 1983

E.P.A. – D.L.P.C.

STATE OF ILLINOIS

201

L.P.C. COMPLAINT INVESTIGATION FORM

Cook County - C85-07N

Arlington Heights / Muni? ( )

Date Received 7-12-84 By RJP By Phone X In Person ___ By Mail ___

Complainant A.T. Berk Respondent Village of Arlington Hts

Address c/o Terramere Home Owners Assoc. 4015 Terramere Arlington Heights 60004 Address Public Works

Telephone 577-8521 Telephone 253-2340

Directions to Source

Complaint Details Apparent leachate seep noted from north slope of old landfill at Dundee + Nickels in northern Arlington Heights.

****

INVESTIGATION FINDINGS

Date 7-18-84 Time 10:00 Am By BRAD Benning

Interviewed —— Weather 78° DRY Photos NO

Violations Observed Site accepting concrete and asphalt along with soil. Met with Bob Livingston of Arlington Hts Health Dept., drove around the site, the leachate problem on the north side had been corrected by the Public Work

Respondent's Remarks Dept. Site is still applying cover material for end use of area as recreational site. Health Dept. is running analysis on the leachate.

A.T. Berk was notified of the inspection. 7-19-84

****

FOLLOW-UP ACTION

Refer to No Follow-up

File Opened - Yes ___ No X

RECEIVED
JUL 23 1984
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

CC: northern
KPB

IL 532-0335
LPC 41 Rev. 11/81

THE CITY OF GOOD NEIGHBORS

ok Co-LPC 03100901
ARLINGTON HTS./MUNICIPAL

Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005
Area 312/253-2340

August 28, 1984

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Mr. Brad Benning
Environmental Protection Specialist
Field Operations Section
Division of Land Pollution Control
1701 South First Avenue
Maywood, IL 60153

Dear Brad:

Enclosed is a copy of the lab analysis report I received for the landfill leachate sample submitted to Aqualab, Inc. on July 5, 1984.

If you have any questions or further comments about this report, please call me at 253-2340 ext. 555.

Thank you for your time and assistance in this matter.

Sincerely,

Robert M. Livingston

Robert M. Livingston
Environmental Health Officer
Health Services Department

ss

pc: file

RECEIVED
SEP 10 1984
IEPA-DLPC

aqualab inc.
1120 Valley Lane
Streamwood Illinois 60103
312 289-3100

17 August 1984

analytical report

sample no. 57341-341 A

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Heights IL 60005

SAMPLE DESCRIPTION: Leachate Sample

date taken

date received 7/5/84

Chloride	1140.	mg/L
COD	4590.	mg/L
Iron, total	1330.	mg/L
pH	5.79	mg/L
Phenol	1.82	mg/L

E.P. Toxicity RCRA:

Arsenic	0.010	mg/L
Barium	1.10	mg/L
Cadmium	0.034	mg/L
Chromium, total	0.091	mg/L
Lead	0.38	mg/L
Mercury	<0.0001	mg/L
Selenium	<0.01	mg/L
Silver	0.031	mg/L

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N Bucaro
Robert N. Bucaro

aqualab inc.
r 20 a: valley lane
streamwood, illinois 60103
312 289-3100

17 August 1984

analytical report

sample no. 57341

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Hts., IL 60005

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

SAMPLE DESCRIPTION: Leachate Sample

VOLATILE COMPOUNDS

ug/L	Compound	ug/L	Compound
<100	Acrolein (2V)	20.7	1,2-Trans-Dichloroethylene (30V)
<100	Acrylonitrile (3V)	<5	1,2-Dichloropropane (32V)
22.2	Benzene (4V)	<5	1,3-Dichloropropylene (33V)
600	Carbon Tetrachloride (6V)	<5 T	Ethylbenzene (38V)
<5	Chlorobenzene (7V)	<10	Methylene Chloride (44V)
7.5	1,2-Dichloroethane (10V)	<20	Methyl Chloride (45V)
600	1,1,1-Trichloroethane (11V)	<20	Methyl Bromide (46V)
700	1,1-Dichloroethane (13V)	<10	Bromoform (47V)
<10T	1,1,2-Trichloroethane (14V)	<5	Dichlorobromomethane (48V)
<10	1,1,2,2-Tetrachloroethane (15V)	<10	Chlorodibromomethane (51V)
<20	Chloroethane (16V)	<5 T	Tetrachloroethylene (85V)
<50	2-Chloroethylvinyl Ether (19V)	270	Toluene (86V)
<5 T	Chloroform (23V)	124	Trichloroethylene (87V)
<5	1,1-Dichloroethylene (29V)	<20	Vinyl Chloride (88V)
		1700	1,2-Cis-Dichloroethylene

T - Trace

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N. Bucaro
Robert N. Bucaro

Illinois Environmental Protection Agency
Divisions of WPC, LPC, APC, PWS (Circle Appropriate Division)
FOIA Request for Information — Tracking Form

NOTE: Always hand-deliver this form, attachments (including request) and any letter prepared for signature due to the short timeline for response.

Log#: _____

Division Request #: _____ Multi-Media _____ (Check if yes)

Date Received : 12/2/85

Method of Request: 12-3-85 Letter (Attached)
12/2/85 Phone Call
_____ Other _____

Person Contacted: KEN BECHELY

Requester: MR. BUTCH PEUVION c/o ARLINGTON HEIGHTS PARK DISTRICT

Address: _____ City: ARLINGTON HEIGHTS

State: ILLINOIS Zip: _____ Telephone: _____

Brief Description of Request: FILE REVIEW: COOK COUNTY - LPC 0310090001
ARLINGTON HTS / MUNICIPAL

Action Taken:

Response Date: Due _____ Sent _____ File Insp. 12-3-85

_____ Notice of Extension: Due _____ Sent _____

Cost of Duplication: (Fee required if total cost is $25 or more)
Number of Copies -0- Cost Per Copy _____

_____ Notice of Fee Required — Fee Amount (Total cost of duplication) _____ Notice Sent (Date) _____

_____ Fee Waived by Division Manager (Signature) _____

_____ Transmittal of Request to Springfield (Use comment section)

_____ Notice of Unduly Burdensom Request - General — Notice Sent (Date) _____

_____ Notice of Unduly Burdensome Request - New Computer Programming Required — Notice Due: _____ Notice Sent: _____

_____ Denial of Request (Originated and sent by enforcement) — Denial Due: _____ Denial Sent: _____

RECEIVED
DEC 06 1985
IEPA-DLPC

OVER FOR COMMENT

IL 532-1286
EPA 160 12/84

RECEIPT OF AGENCY DOCUMENTS

I, Butch Peirson; acknowledge that on this date, I personally appeared in the offices of the Illinois Environmental Protection Agency, at ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL 1701 SO. FIRST AVENUE - SUITE 600 MAYWOOD, ILLINOIS 60153; that I requested and received the following Agency files or documents for my personal inspection:

031 009 0001
ARLINGTON HTS. / MUNI

I further acknowledge that I have been advised, in writing, that certain documents, alleged by the Agency to fall within the exception of Ill. Rev. Stat., Ch. 111 1/2, Sec. 1007, have been withheld from my inspection; and that I have been given permission to photocopy the list of such withheld documents. (Strike and initial if inapplicable)

DATE: 12/3/85

SIGNATURE: Butch Peirson

ADDRESS: 800 E FALCON DR. ARL. HGHTS ILL 60005

TELEPHONE: 312-640-2577

ADM-95 (10/78)

RECEIVED
DEC 06 1985
IEPA-DLPC

DECEMBER 3, 1985

MR. KEN BEECHLEY,

AS PER OUR CONVERSATION ON DECEMBER 2, 1985. THE ARLINGTON HEIGHTS PARK DISTRICT IS LOOKING AT THE FEASABILITY OF CONSTRUCTI A GOLF COURSE ON ABANDON LANDFILL SITE ON KENNICOTT AND DUNDEE ROADS. WE ARE REQUESTIN THAT ANY INFORMATION YOU HAVE ON THIS SITE ~~WILL~~ BE MADE AVAILABLE TO US. WE WOULD ALSO LIKE TO HAVE A REPRESENTATIVE LOOK AT ANY MATERIAL IN YOUR FILES REGARDING THIS SITE.

THANK YOU FOR YOUR COOPERATION

Butch Penrion
GOLF COURSE SUPT.
ARLINGTON HEIGHTS PARK DIST

RECEIVED
DEC 06 1985
IEPA-DLPC

217/782-6760

Refer to: Cook County - 03100901 - Arlington Heights/Municipal

March 2, 1977

Mr. Allen Sander
Village Engineer
Village of Arlington Heights
33 South Arlington Heights Road
Arlington Heights, Illinois 60005

Dear Mr. Sander:

Confirming out telephone conversation of earlier today, I am enclosing copies of the required Comprehensive Water Analysis List for background surface and ground water samples and a typical monitor well installation diagram showing this Division's construction requirements. A recommended permanent sampling point for the proposed ice skating-storm water retention pond would be midway along its southeast side (nearest the landfill). The well should be installed near the middle of the area enclosed by the 710 contour (Figure 2 - Grading Plan - Landfill Site Master Plan by Stanley Consultants, Inc., dated November 29, 1976) immediately northwest of the water storage tank. Due to its location in the final-use picnic area, installation of the optional well protection pipe and locking cap as shown on the diagram is strongly recommended.

S501

G101

The following data shall have been submitted in duplicate to the Agency by June 30, 1977:

1. monitoring point location map showing finalized locations of the points described above;

2. a monitor well construction diagram showing all materials, screened interval, depth to water (after 24 hours) and casing head elevation;

3. results of comprehensive background samples from both monitoring points;

4. a boring log of the Village water supply well located south of the site.

Following receipt and review of the above information, a routine quarterly monitoring program in accordance with Rules 317 and 318(a) of the Illinois Solid Waste Rules and Regulations will be established by this office. Should questions arise during the closure of the site, do not hesitate to contact either myself or the Aurora Regional Office.

Very truly yours,

Thomas P. Clark
Hydrogeologist
Technical Operations (Land)
Division of Land/Noise Pollution Control

TPC:jlr:W1&2

Enclosures

cc: Northern Region
Division (FOS) File
WQ File - T. Clark

ORGANIC

D071407

Time Collected: 9:40 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 02-24-88

Date Received FEB 28 1989

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

L 201

COUNTY:	FILE HEADING:	FILE NUMBER:
COOK	ARLINGTON HTS. / Arlington Hts. LANDFILL	0310090001

SOURCE OF SAMPLE: (Exact Location) IBT VAULT #3

PHYSICAL OBSERVATIONS, REMARKS: CLEAR, NO ODOR

TESTS REQUESTED: VOCS, ORGANIC SCAN

COLLECTED BY: GBITE

TRANSPORTED BY: GBITE

LABORATORY

RECEIVED BY: DW

DATE COMPLETED:

DATE FORWARDED: 5-15-89

RECEIVED

MAY 16 1989

IEPA/DLPC

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

D071407

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D971407
SAMPLING POINT DESC. : ARLINGTON HTS/AR HTS LANDFILL/L201

SUBMITTING SOURCE # : SITE # : 0310090001
DATE COLLECTED : 890224 TIME COLLECTED : 0940 SAMPLING PROGRAM :

COLLECTED BY : G B/T E DELIVERED BY : CMS
COMMENTS : VOC'S/ORGANIC SCAN
FUNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 890228 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 GAL & 2 VOC TRIP BL SAM# : D971408
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39340	GAMMA-BHC (LINDANE)	UG/L	.05K
P39410	HEPTACHLOR	UG/L	.05K
P39330	ALDRIN	UG/L	.05K
P39420	HEPTACHLOR EPOXIDE	UG/L	.05K
P39346	ALPHA-CHLORDANE	UG/L	.05K
P39610	GAMMA-CHLORDANE	UG/L	.05K
P39360	DIELDRIN	UG/L	.05K
P39390	ENDRIN	UG/L	.05K
P39480	METHOXYCHLOR	UG/L	.25K
P39327	O,P'-DDE	UG/L	.05K
P39320	P,P'-DDE	UG/L	.05K
P39315	O,P'-DDD	UG/L	.05K
P39310	P,P'-DDD	UG/L	.05K
P39305	O,P'-DDT	UG/L	.05K
P39300	P,P'-DDT	UG/L	.05K
P39516	TOTAL PCBS	UG/L	0.5K
P34694	PHENOL	UG/L	5.0K
P34273	BIS(2-CHLOROETHYL)ETHER	UG/L	5.0K
P34586	2-CHLOROPHENOL	UG/L	5.0K
P34566	1,3-DICHLOROBENZENE	UG/L	5.0K
P34571	1,4-DICHLOROBENZENE	UG/L	9.0
P77147	BENZYL ALCOHOL	UG/L	5.0K
P34536	1,2-DICHLOROBENZENE	UG/L	5.0K
A00000	2-METHYLPHENOL	UG/L	5.0K
P34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/L	5.0K
A00000	4-METHYLPHENOL	UG/L	5.0K
P34428	N-NITROSO-DI-N-PROPYLAMINE	UG/L	5.0K
P34396	HEXACHLOROETHANE	UG/L	5.0K
P34447	NITROBENZENE	UG/L	5.0K

SAMPLE NUMBER : D971407

P34408	ISOPHORONE	UG/L	: 5.0K
P34591	2-NITROPHENOL	UG/L	: 5.0K
P34606	2,4-DIMETHYLPHENOL	UG/L	: 5.0K
P77247	BENZOIC ACID	UG/L	: 50K
P34278	BIS(2-CHLOROETHOXY)METHANE	UG/L	: 5.0K
P34601	2,4-DICHLOROPHENOL	UG/L	: 5.0K
P34551	1,2,4-TRICHLOROBENZENE	UG/L	: 5.0K
P34696	NAPHTHALENE	UG/L	: 5.0K
A00000	4-CHLOROANILINE	UG/L	: 5.0K
P34391	HEXACHLOROBUTADIENE	UG/L	: 5.0K
P34452	4-CHLORO-3-METHYLPHENOL	UG/L	: 5.0K
P77416	2-METHYLNAPHTHALENE	UG/L	: 5.0K
P34386	HEXACHLOROCYCLOPENTADIENE	UG/L	: 5.0K
P34621	2,4,6-TRICHLOROPHENOL	UG/L	: 5.0K
P77687	2,4,5-TRICHLOROPHENOL	UG/L	: 5.0K
P34581	2-CHLORONAPHTHALENE	UG/L	: 5.0K
A00000	2-NITROANILINE	UG/L	: 10K
P34341	DIMETHYLPHTHALATE	UG/L	: 5.0K
P34200	ACENAPHTHYLENE	UG/L	: 5.0K
P34626	2,6-DINITROTOLUENE	UG/L	: 5.0K
P78300	3-NITROANILINE	UG/L	: 10K
P34205	ACENAPHTHENE	UG/L	: 5.0K
P34616	2,4-DINITROPHENOL	UG/L	: 10K
P34646	4-NITROPHENOL	UG/L	: 10K
P81302	DIBENZOFURAN	UG/L	: 5.0K
P34611	2,4-DINITROTOLUENE	UG/L	: 5.0K
P34336	DIETHYLPHTHALATE	UG/L	: 5.0K
P34641	4-CHLOROPHENYL PHENYL ETHER	UG/L	: 5.0K
P34381	FLUORENE	UG/L	: 5.0K
A00000	4-NITROANILINE	UG/L	: 10K
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/L	: 10K
P34636	4-BROMOPHENYL PHENYL ETHER	UG/L	: 5.0K
P39700	HEXACHLOROBENZENE	UG/L	: 5.0K
P39032	PENTACHLOROPHENOL	UG/L	: 10K
P34461	PHENANTHRENE	UG/L	: 5.0K
P34220	ANTHRACENE	UG/L	: 5.0K
P39110	DI-N-BUTYLPHTHLATE	UG/L	: 5.0K
P34376	FLUORANTHENE	UG/L	: 5.0K
P34469	PYRENE	UG/L	: 5.0K
P34292	BUTYL BENZYL PHTHALATE	UG/L	: 5.0K
P34631	3,3'-DICHLOROBENZIDINE	UG/L	: 10K
P34526	BENZO(A)ANTHRACENE	UG/L	: 5.0K
P34320	CHRYSENE	UG/L	: 5.0K

SAMPLE NUMBER : D971407

P39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	: 5.0K
P34596	DI-N-OCTYLPHTHALATE	UG/L	: 5.0K
P34230	BENZO(B)FLUORANTHENE	UG/L	: 5.0K
P34242	BENZO(K)FLUORANTHENE	UG/L	: 5.0K
P34247	BENZO(A)PYRENE	UG/L	: 5.0K
P34403	INDENO(1,2,3-CD)PYRENE	UG/L	: 5.0K
P34556	DIBENZO(AH)ANTHRACENE	UG/L	: 5.0K
P34521	BENZO(GHI)PERYLENE	UG/L	: 5.0K
P34416	CHLOROMETHANE	UG/L	: 10K
P34413	BROMOMETHANE	UG/L	: 10K
P39175	VINYL CHLORIDE	UG/L	: 360
P34311	CHLOROETHANE	UG/L	: 10K
P34423	METHYLENE CHLORIDE	UG/L	: 26
P81552	ACETONE	UG/L	: 19
P34488	TRICHLOROFLUOROMETHANE	UG/L	: 5.0K
P77277	BROMOCHLOROMETHANE	UG/L	: 5.0K
P77041	CARBON DISULFIDE	UG/L	: 5.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 5.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 31
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 49
P77093	CIS-1,2-DICHLOROETHYLENE	UG/L	: 3000
P32106	CHLOROFORM	UG/L	: 5.0K
P34331	1,2-DICHLOROETHANE	UG/L	: 5.0K
P81595	2-BUTANONE(MEK)	UG/L	: 10K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 5.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 5.0K
P77057	VINYL ACETATE	UG/L	: 10K
P32101	DICHLOROBROMOMETHANE	UG/L	: 5.0K
P34541	1,2-DICHLOROPROPANE	UG/L	: 41
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P39180	TRICHLOROETHYLENE	UG/L	: 220
P32105	CHLORODIBROMOMETHANE	UG/L	: 5.0K
P34511	1,1,2-TRICHLOROETHANE	UG/L	: 5.0K
P78124	BENZENE	UG/L	: 39
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P34576	2-CHLOROETHYLVINYL ETHER	UG/L	: 5.0K
P32104	BROMOFORM	UG/L	: 5.0K
P78133	4-METHYL-2-PENTANONE(MIBK)	UG/L	: 10K
P77103	2-HEXANONE(MBK)	UG/L	: 10K
P34475	TETRACHLOROETHYLENE	UG/L	: 43
P34516	1,1,2,2-TETRACHLOROETHANE	UG/L	: 5.0K
P78131	TOLUENE	UG/L	: 240

SAMPLE NUMBER : 0971407

P34301	CHLOROBENZENE	UG/L	: 5.0K
P76113	ETHYLBENZENE	UG/L	: 5.0K
P77126	STYRENE	UG/L	: 5.0K
P81551	XYLENE	UG/L	: 5.2
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
P00431	ALKALINITY,TOTAL	MG/L	: --
P00090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: C4-SUBSTITUTED BENZENE UG/L; 5.2
: OTHER ORGANIC COMPOUNDS UGL; 63

equi-b inc.
[illegible]
[illegible]
312 [illegible]

17 August 1984

analytical report

sample no. 57341-341 A

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Heights IL 60005

SAMPLE DESCRIPTION: Leachate Sample

date received 7/5/84

Chloride	1140.	mg/L
COD	4590.	mg/L
Iron, total	1330.	mg/L
pH	5.79	mg/L
Phenol	1.82	mg/L

E.P. Toxicity RCRA:

Arsenic	0.010	mg/L
Barium	1.10	mg/L
Cadmium	0.034	mg/L
Chromium, total	0.091	mg/L
Lead	0.38	mg/L
Mercury	<0.0001	mg/L
Selenium	<0.01	mg/L
Silver	0.031	mg/L

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N. Bucaro
Robert N. Bucaro

aquatlab inc.
[illegible]
[illegible]
312 289-3100

17 August 1984

analytical report

sample no. 57341

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Hts., IL 60005

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

SAMPLE DESCRIPTION: Leachate Sample

VOLATILE COMPOUNDS

ug/L	Compound	ug/L	Compound
<100	Acrolein (2V)	20.7	1,2-Trans-Dichloroethylene (30V)
<100	Acrylonitrile (3V)	<5	1,2-Dichloropropane (32V)
22.2	Benzene (4V)	<5	1,3-Dichloropropylene (33V)
600	Carbon Tetrachloride (6V)	<5 T	Ethylbenzene (38V)
<5	Chlorobenzene (7V)	<10	Methylene Chloride (44V)
7.5	1,2-Dichloroethane (10V)	<20	Methyl Chloride (45V)
600	1,1,1-Trichloroethane (11V)	<20	Methyl Bromide (46V)
700	1,1-Dichloroethane (13V)	<10	Bromoform (47V)
<10T	1,1,2-Trichloroethane (14V)	<5	Dichlorobromomethane (48V)
<10	1,1,2,2-Tetrachloroethane (15V)	<10	Chlorodibromomethane (51V)
<20	Chloroethane (16V)	<5 T	Tetrachloroethylene (85V)
<50	2-Chloroethylvinyl Ether (19V)	270	Toluene (86V)
<5 T	Chloroform (23V)	124	Trichloroethylene (87V)
<5	1,1-Dichloroethylene (29V)	<20	Vinyl Chloride (88V)
		1700	1,2-Cis-Dichloroethylene

T - Trace

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N. Bucaro
Robert N. Bucaro

THE CITY OF GOOD NEIGHBORS

Cook Co - LPC 0310090 1
ARLINGTON HTS./MUNICIPAL

Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005
Area 312/253-2340

August 28, 1984

RECEIVED
AUG 30 1984
ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

Mr. Brad Benning
Environmental Protection Specialist
Field Operations Section
Division of Land Pollution Control
1701 South First Avenue
Maywood, IL 60153

Dear Brad:

Enclosed is a copy of the lab analysis report I received for the landfill leachate sample submitted to Aqualab, Inc. on July 5, 1984.

If you have any questions or further comments about this report, please call me at 253-2340 ext. 555.

Thank you for your time and assistance in this matter.

Sincerely,

Robert M. Livingston

Robert M. Livingston
Environmental Health Officer
Health Services Department

ss

pc: file

RECEIVED
SEP 10 1984
IEPA-DLPC

aquatab inc.
[illegible] lane
Schaumburg Illinois 60193
312 [illegible]

17 August 1984

analytical report

sample no. 57341-341 A

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Heights IL 60005

SAMPLE DESCRIPTION: Leachate Sample

date taken

date received 7/5/84

Chloride	1140.	mg/L
COD	4590.	mg/L
Iron, total	1330.	mg/L
pH	5.79	mg/L
Phenol	1.82	mg/L

E.P. Toxicity RCRA:

Arsenic	0.010	mg/L
Barium	1.10	mg/L
Cadmium	0.034	mg/L
Chromium, total	0.091	mg/L
Lead	0.38	mg/L
Mercury	<0.0001	mg/L
Selenium	<0.01	mg/L
Silver	0.031	mg/L

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N Bucaro
Robert N. Bucaro

A-102

aquatlab inc.
[illegible] Lane
[illegible] Illinois 60103
312 289-3100

17 August 1984

analytical report

sample no. 57341

Mr. Bob Livingston
VILLAGE OF ARLINGTON HEIGHTS
33 S. Arlington Hts. Rd.
Arlington Hts., IL 60005

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

SAMPLE DESCRIPTION: Leachate Sample

VOLATILE COMPOUNDS

ug/L	Compound	ug/L	Compound
<100	Acrolein (2V)	20.7	1,2-Trans-Dichloroethylene (30V)
<100	Acrylonitrile (3V)	<5	1,2-Dichloropropane (32V)
22.2	Benzene (4V)	<5	1,3-Dichloropropylene (33V)
600	Carbon Tetrachloride (6V)	<5 T	Ethylbenzene (38V)
<5	Chlorobenzene (7V)	<10	Methylene Chloride (44V)
7.5	1,2-Dichloroethane (10V)	<20	Methyl Chloride (45V)
600	1,1,1-Trichloroethane (11V)	<20	Methyl Bromide (46V)
700	1,1-Dichloroethane (13V)	<10	Bromoform (47V)
<10T	1,1,2-Trichloroethane (14V)	<5	Dichlorobromomethane (48V)
<10	1,1,2,2-Tetrachloroethane (15V)	<10	Chlorodibromomethane (51V)
<20	Chloroethane (16V)	<5 T	Tetrachloroethylene (85V)
<50	2-Chloroethylvinyl Ether (19V)	270	Toluene (86V)
<5 T	Chloroform (23V)	124	Trichloroethylene (87V)
<5	1,1-Dichloroethylene (29V)	<20	Vinyl Chloride (88V)
		1700	1,2-Cis-Dichloroethylene

T - Trace

RECEIVED
SEP 10 1984
IEPA-DLPC

Robert N. Bucaro
Robert N. Bucaro

THE CITY OF GOOD NEIGHBORS

Cook Co-LPC 03100901
ARLINGTON HTS./MUNICIPAL

Village of Arlington Heights

MUNICIPAL BUILDING • 33 S. ARLINGTON HEIGHTS ROAD 60005
Area 312/253-2340

August 28, 1984

RECEIVED
AUG 30 1984
ILL. E.P.A. – D.L.P.C.
STATE OF ILLINOIS

Mr. Brad Benning
Environmental Protection Specialist
Field Operations Section
Division of Land Pollution Control
1701 South First Avenue
Maywood, IL 60153

Dear Brad:

Enclosed is a copy of the lab analysis report I received for the landfill leachate sample submitted to Aqualab, Inc. on July 5, 1984.

If you have any questions or further comments about this report, please call me at 253-2340 ext. 555.

Thank you for your time and assistance in this matter.

Sincerely,

Robert M. Livingston

Robert M. Livingston
Environmental Health Officer
Health Services Department

ss

pc: file

RECEIVED
SEP 10 1984
IEPA-DLPC

ORGANICS

D071407

Time Collected: 9:40 AM

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 02-24-88

Date Received FEB 28 1989

L 201

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
COOK	ARLINGTON HTS. / Arlington Hts. Landfill	0310090001

SOURCE OF SAMPLE: (Exact Location) IBT VAULT #3

PHYSICAL OBSERVATIONS, REMARKS: CLEAR, NO ODOR

TESTS REQUESTED: VOCS, ORGANIC SCAN

COLLECTED BY: GBITE

TRANSPORTED BY: GBITE

LABORATORY

RECEIVED BY: DW

DATE COMPLETED:

DATE FORWARDED: 5-15-89

RECEIVED

MAY 16 1989

IEPA/DLPC

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

D071407

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D971407
SAMPLING POINT DESC. : ARLINGTON HTS/AR HTS LANDFILL/L201

SUBMITTING SOURCE # : SITE # : 0310090001
DATE COLLECTED : 890224 TIME COLLECTED : 0940 SAMPLING PROGRAM :

COLLECTED BY : G B/T E DELIVERED BY : CMS
COMMENTS : VOC'S/ORGANIC SCAN
FUNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : - REPORTING INDICATOR :

DATE RECEIVED : 890228 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 1 GAL & 2 VOC TRIP BL SAM# : D971408
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39340	GAMMA-BHC (LINDANE)	UG/L : .05K
P39410	HEPTACHLOR	UG/L : .05K
P39330	ALDRIN	UG/L : .05K
P39420	HEPTACHLOR EPOXIDE	UG/L : .05K
P39348	ALPHA-CHLORDANE	UG/L : .05K
P39310	GAMMA-CHLORDANE	UG/L : .05K
P39380	DIELDRIN	UG/L : .05K
P39390	ENDRIN	UG/L : .05K
P39480	METHOXYCHLOR	UG/L : .25K
P39327	O,P'-DDE	UG/L : .05K
P39320	P,P'-DDE	UG/L : .05K
P39315	O,P'-DDD	UG/L : .05K
P39310	P,P'-DDD	UG/L : .05K
P39305	O,P'-DDT	UG/L : .05K
P39300	P,P'-DDT	UG/L : .05K
P39516	TOTAL PCBS	UG/L : 0.5K
P34694	PHENOL	UG/L : 5.0K
P34273	BIS(2-CHLOROETHYL)ETHER	UG/L : 5.0K
P34586	2-CHLOROPHENOL	UG/L : 5.0K
P34566	1,3-DICHLOROBENZENE	UG/L : 5.0K
P34571	1,4-DICHLOROBENZENE	UG/L : 9.0
P77147	BENZYL ALCOHOL	UG/L : 5.0K
P34536	1,2-DICHLOROBENZENE	UG/L : 5.0K
A00000	2-METHYLPHENOL	UG/L : 5.0K
P34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/L : 5.0K
A00000	4-METHYLPHENOL	UG/L : 5.0K
P34428	N-NITROSO-DI-N-PROPYLAMINE	UG/L : 5.0K
P34396	HEXACHLOROETHANE	UG/L : 5.0K
P34447	NITROBENZENE	UG/L : 5.0K

SAMPLE NUMBER : D971407

P34408	ISOPHORONE	UG/L	: 5.0K
P34591	2-NITROPHENOL	UG/L	: 5.0K
P34606	2,4-DIMETHYLPHENOL	UG/L	: 5.0K
P77247	BENZOIC ACID	UG/L	: 50K
P34278	BIS(2-CHLOROETHOXY)METHANE	UG/L	: 5.0K
P34601	2,4-DICHLOROPHENOL	UG/L	: 5.0K
P34551	1,2,4-TRICHLOROBENZENE	UG/L	: 5.0K
P34696	NAPHTHALENE	UG/L	: 5.0K
A00000	4-CHLOROANILINE	UG/L	: 5.0K
P34391	HEXACHLOROBUTADIENE	UG/L	: 5.0K
P34452	4-CHLORO-3-METHYLPHENOL	UG/L	: 5.0K
P77416	2-METHYLNAPHTHALENE	UG/L	: 5.0K
P34386	HEXACHLOROCYCLOPENTADIENE	UG/L	: 5.0K
P34621	2,4,6-TRICHLOROPHENOL	UG/L	: 5.0K
P77667	2,4,5-TRICHLOROPHENOL	UG/L	: 5.0K
P34581	2-CHLORONAPHTHALENE	UG/L	: 5.0K
A00000	2-NITROANILINE	UG/L	: 10K
P34341	DIMETHYLPHTHALATE	UG/L	: 5.0K
P34200	ACENAPHTHYLENE	UG/L	: 5.0K
P34626	2,6-DINITROTOLUENE	UG/L	: 5.0K
P78300	3-NITROANILINE	UG/L	: 10K
P34205	ACENAPHTHENE	UG/L	: 5.0K
P34616	2,4-DINITROPHENOL	UG/L	: 10K
P34646	4-NITROPHENOL	UG/L	: 10K
P81302	DIBENZOFURAN	UG/L	: 5.0K
P34611	2,4-DINITROTOLUENE	UG/L	: 5.0K
P34336	DIETHYLPHTHALATE	UG/L	: 5.0K
P34641	4-CHLOROPHENYL PHENYL ETHER	UG/L	: 5.0K
P34381	FLUORENE	UG/L	: 5.0K
A00000	4-NITROANILINE	UG/L	: 10K
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/L	: 10K
P34636	4-BROMOPHENYL PHENYL ETHER	UG/L	: 5.0K
P39700	HEXACHLOROBENZENE	UG/L	: 5.0K
P39032	PENTACHLOROPHENOL	UG/L	: 10K
P34461	PHENANTHRENE	UG/L	: 5.0K
P34220	ANTHRACENE	UG/L	: 5.0K
P39110	DI-N-BUTYLPHTHLATE	UG/L	: 5.0K
P34376	FLUORANTHENE	UG/L	: 5.0K
P34469	PYRENE	UG/L	: 5.0K
P34292	BUTYL BENZYL PHTHALATE	UG/L	: 5.0K
P34631	3,3'-DICHLOROBENZIDINE	UG/L	: 10K
P34526	BENZO(A)ANTHRACENE	UG/L	: 5.0K
P34320	CHRYSENE	UG/L	: 5.0K

SAMPLE NUMBER : D971407

P39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	: 5.0K
P34596	DI-N-OCTYLPHTHALATE	UG/L	: 5.0K
P34230	BENZO(B)FLUORANTHENE	UG/L	: 5.0K
P34242	BENZO(K)FLUORANTHENE	UG/L	: 5.0K
P34247	BENZO(A)PYRENE	UG/L	: 5.0K
P34403	INDENO(1,2,3-CD)PYRENE	UG/L	: 5.0K
P34556	DIBENZO(AH)ANTHRACENE	UG/L	: 5.0K
P34521	BENZO(GHI)PERYLENE	UG/L	: 5.0K
P34418	CHLOROMETHANE	UG/L	: 10K
P34413	BROMOMETHANE	UG/L	: 10K
P39175	VINYL CHLORIDE	UG/L	: 360
P34311	CHLOROETHANE	UG/L	: 10K
P34423	METHYLENE CHLORIDE	UG/L	: 26
P81552	ACETONE	UG/L	: 19
P34488	TRICHLOROFLUOROMETHANE	UG/L	: 5.0K
P77277	BROMOCHLOROMETHANE	UG/L	: 5.0K
P77041	CARBON DISULFIDE	UG/L	: 5.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 5.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 31
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 49
P77093	CIS-1,2-DICHLOROETHYLENE	UG/L	: 3000
P32106	CHLOROFORM	UG/L	: 5.0K
P34531	1,2-DICHLOROETHANE	UG/L	: 5.0K
P81595	2-BUTANONE(MEK)	UG/L	: 10K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 5.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 5.0K
P77057	VINYL ACETATE	UG/L	: 10K
P32101	DICHLOROBROMOMETHANE	UG/L	: 5.0K
P34541	1,2-DICHLOROPROPANE	UG/L	: 41
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P39180	TRICHLOROETHYLENE	UG/L	: 220
P32105	CHLORODIBROMOMETHANE	UG/L	: 5.0K
P34511	1,1,2-TRICHLOROETHANE	UG/L	: 5.0K
P78124	BENZENE	UG/L	: 39
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P34576	2-CHLOROETHYLVINYL ETHER	UG/L	: 5.0K
P32104	BROMOFORM	UG/L	: 5.0K
P78133	4-METHYL-2-PENTANONE(MIBK)	UG/L	: 10K
P77103	2-HEXANONE(MBK)	UG/L	: 10K
P34475	TETRACHLOROETHYLENE	UG/L	: 43
P34516	1,1,2,2-TETRACHLOROETHANE	UG/L	: 5.0K
P78131	TOLUENE	UG/L	: 240

SAMPLE NUMBER : 0971407

P34301	CHLOROBENZENE	UG/L	: 5.0K
P78113	ETHYLBENZENE	UG/L	: 5.0K
P77128	STYRENE	UG/L	: 5.0K
P81551	XYLENE	UG/L	: 5.2
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
P00431	ALKALINITY,TOTAL	MG/L	: --
P00090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: C4-SUBSTITUTED BENZENE UG/L; 5.0
: OTHER ORGANIC COMPOUNDS UGL; 63