STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-6

DEPTH (FT)	ELEV (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +575.5 NGVD			
						Water			
1.0									
2.0									
3.0									
4.0									
5.0						Gravelly fine to coarse sand, little silt, trace clay and organics - brownish gray - medium dense (SM) With coarse gravel at 5 to 7 ft.			
6.0		1	SS					11	
7.0									
8.0		2	SS					17	
8.5						Gravelly fine to coarse sand, little silt, trace clay - gray - medium dense (SM-GM) With occasional thin organic seams noted.			
9.0		3	SS					13	
10.0									

. . . continued

"The soil stratification represent the approximate boundary lines between soil types. In situ, the transition may be gradual."
STS JOB NO. 34098 SHEET NO. 1 OF 3

STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-6

DEPTH (FT)	ELEVATION (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +575.5 NGVD (Continued)			
						Gravelly fine to coarse sand, little silt, trace clay - gray - medium dense (SM-GM) With occasional thin organic seams noted.			
11.0									
12.0			RB						
13.0	13.0								
						Hard shaly limestone			
	13.7					Moderately weathered soft shale Recovery = 74% RQD = 64%			
14.0									
15.0	14.9								
	15.2					Hard shaly limestone			
						Moderately weathered soft shale			
16.0	16.0								
						Hard shaly limestone			
	16.4					Moderately weathered soft shale			
17.0			RUN 1 DB						
	17.8					Hard shaly limestone			
18.0									
	18.3					Moderately weathered soft shale			
	18.9					Hard shaly limestone			
19.0									
20.0	20.0								

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The stratification lines represent the approximate boundary lines between soil types. In situ, the transition may be gradual.
STS JOB NO. 34098 SHEET NO. 2 OF 3

STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-6

DEPTH (FT)	ELEVATION (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +575.5 NGVD (Continued)			
						Moderately weathered soft shale Field Permeability (Packer) Test @ 17 to 25 ft.:			
						Pressure / Time / Flow Volume			
						2.5 psi / 5 min. / 0.2 Gal.			
						5.0 psi / 5 min. / 0 Gal			
						10 psi / 5 min. / 0.3 Gal			
21.0									
22.0			RUN 1 DB						
23.0									
23.5	23.5								

End of Boring
Borehole backfilled upon completion.
Casing used: 15 ft. of 4 in.
Safety Hammer used for Standard Penetration Tests.

The stratification lines represent the approximate boundary lines between soil types. In situ, the transition may be gradual.

WL	BORING STARTED 8/26/04	STS OFFICE Chicago Area - 01	
WL	BORING COMPLETED 8/26/04	ENTERED BY KKB	SHEET NO. 3 OF 3
WL	FOREMAN Joy 12-Barge/Lehtinen	APPROVED DSD	STS JOB NO. 34098

STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-7

DEPTH (FT)	ELEV (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +575.5 NGVD			
						Water			
1.0									
2.0									
3.0									
4.0									
5.0									
6.0									
6.5						Silty fine to coarse sand, little gravel trace clay, organics and shells - brown - loose (SM)			
7.0		1	SS					6*	
8.0									
8.5						Clayey fine to coarse sand, little gravel - gray - medium dense to dense (SM-GM)			
9.0		2	SS					47/9"	
9.3						Highly weathered soft shale, thinly bedded			

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* Calibrated Penetrometer

The stratification lines represent the approximate boundary lines between soil types. In situ, the transition may be gradual.
STS JOB NO. 34098 SHEET NO. 1 OF 3

STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-7

DEPTH (FT)	ELEV (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +575.5 NGVD (Continued)			
10.0						Highly weathered soft shale, thinly bedded			
		3	SS*					*	
	10.8								
11.0			RB			Hard shaly limestone			
	11.6								
12.0						Moderately weathered soft shale Recovery = 77% RQD = 51%			
13.0						Field Permeability (Packer) Test @ 12 to 19.5 ft.:			
						Pressure / Time / Flow Volume			
						2.5 psi / 5 min. / 0.5 Gal.			
						5.0 psi / 5 min. / 0 Gal.			
						10 psi / 5 min. / 0.2 Gal.			
14.0									
15.0									
16.0			RUN 1 DB						
17.0									
	17.8					Hard shaly limestone Qu = 12,525 psi			
18.0									
	18.4					Moderately weathered soft shale			
19.0									

. . . continued

* Calibrated Penetrometer

The stratification lines represent the approximate boundary lines between soil types. In situ, the transition may be gradual.
STS JOB NO. 34098 SHEET NO. 2 OF 3

STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-7

DEPTH (FT)	ELEV (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +575.5 NGVD (Continued)			
						Moderately weathered soft shale			
20.0									
21.0			RUN 1 DB						
21.5	21.5								

End of Boring
Borehole backfilled upon completion.
Casing used: 12 ft. of 4 in.
Safety Hammer used for Standard Penetration Tests.
SS* = SPT value based on first 6 in. or less.

* Calibrated Penetrometer

The stratification lines represent the approximate boundary lines between soil types. In situ, the transition may be gradual.

WL	BORING STARTED 8/27/04	STS OFFICE Chicago Area - 01	
WL	BORING COMPLETED 8/27/04	ENTERED BY KKB	SHEET NO. 3 OF 3
WL	FOREMAN Joy 12-Barge/Lehtinen	APPROVED DSD	STS JOB NO. 34098

STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-11

DEPTH (FT)	ELEV (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +580.6 NGVD			
						Water			
1.0	1.0					Gravelly fine to coarse sand, trace silt and organics - gray - dense (GM-SM)			
2.0		1	SS					26	
3.0								29	
4.0		2	SS						
5.0			RB						
6.0		3	SS					58	
7.0			RB						
	7.5					Highly weathered shale			
8.0		4	SS*					50/3"	
9.0			RB						
	9.0					Moderately weathered soft shale Recovery = 64% RQD = 41%			
10.0			RUN 1 DB						
11.0									

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"The soil stratification represent the approximate boundary lines between soil types. In situ, the transition may be gradual."
STS JOB NO. 34098 SHEET NO. 1 OF 2

STS Consultants Ltd.
OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER B-11

DEPTH (FT)	ELEV (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT (LBS/FT³)	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²) PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT
						SURFACE ELEVATION +580.6 NGVD (Continued)			
						Moderately weathered soft shale Recovery = 64% RQD = 41%			
11.9						Hard shaly limestone			
12.0									
12.6						Moderately weathered soft shale			
13.0									
13.5						Hard shaly limestone			
14.0									
14.8									
15.0			RUN 1 DB			Moderately weathered soft shale Qu = 11,055 psi			
16.0									
17.0									
18.0									
19.0	19.0								

End of Boring
Borehole grouted upon completion.
Casing used: 8 ft. of 4 in.
Automatic-Diedrich Hammer used for Standard Penetration Tests.
SS* = SPT value based on first 6 in.

The stratification lines represent the approximate boundary lines between soil types. In situ, the transition may be gradual.

WL	BORING STARTED 9/10/04	STS OFFICE Chicago Area - 01	
WL	BORING COMPLETED 9/10/04	ENTERED BY KKB	SHEET NO. 2 OF 2
WL	FOREMAN Bomb/Lehtinen	APPROVED DSD	STS JOB NO. 34098

LOCATION OF BORINGS ON SHEET B2

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Designed By JPR Checked By TKL
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