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 A-8

SURFACE ELEVATION +562.1 NGVD

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
562.1	0.0				Topsoil
		1	SS		Fill: Silty fine to coarse sand, little gravel, trace clay, crushed concrete and brick - brown - medium dense - moist (SM)
			PA		
		2	SS		
			PA		
		3	SS		
			PA		
		4	SS		
553.1	9.0	4A	SS		Highly weathered soft shale and interbedded limestone
					End of Boring. Borehole backfilled upon completion. Automatic-Diedrich Hammer used for Standard Penetration Tests.

Unconfined compressive strength (tons/ft²): 1 2 3 4 5. Plastic limit % / Water content % / Liquid limit %. Standard penetration blows/ft: 10 20 30 40 50.

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

WL	Boring started 9/13/04	STS office Chicago Area - 01	
WL	Boring completed 9/13/04	Entered by KKB	Sheet no. 1 of 1
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by 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 A-9

SURFACE ELEVATION +578.1 NGVD

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
577.6	0.5				Topsoil
		1	SS		Fill: Silty fine to coarse sand, little gravel, trace clay, roots, wood and crushed concrete - brown - medium dense to loose (SM)
			PA		
		2	SS		
			PA		
		3	SS		
569.6	8.5	3A	SS		Gravelly fine to coarse sand, little silt, trace clay and organics - gray - loose (GM-SM) (Possible fill)
			PA		
		4	SS		Clayey between 7.5 and 9.5 ft.
			PA		

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

WL	Boring started 9/14/04	STS office Chicago Area - 01	
WL	Boring completed 9/14/04	Entered by KKB	Sheet no. 1 of 2
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by 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 A-9

SURFACE ELEVATION +578.1 NGVD (Continued)

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
		5	SS		Gravelly fine to coarse sand, little silt, trace clay and organics - gray - loose (GM-SM) (Possible fill)
567.1	11.0				
565.8	11.3	5A	SS		Highly weathered soft shale
					End of Boring. Borehole backfilled upon completion. Automatic-Diedrich 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 9/14/04	STS office Chicago Area - 01	
WL	Boring completed 9/14/04	Entered by KKB	Sheet no. 2 of 2
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by 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 A-10

SURFACE ELEVATION +572.5 NGVD

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
		1	SS		Fill: Silty fine to coarse sand, little clay, trace gravel and shale - brown - medium dense (SM)
			PA		
		2	SS		
			PA		
567.5	5.0				
567.2	5.3	3	SS*	3 in.	Highly weathered soft shale
					End of Boring. Borehole backfilled upon completion. 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 9/14/04	STS office Chicago Area - 01	
WL	Boring completed 9/14/04	Entered by KKB	Sheet no. 1 of 1
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by 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-1

SURFACE ELEVATION +586.8 NGVD

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
586.3	0.5				Water
		1	SS		Gravelly fine to coarse sand, trace silt and organics - gray - loose to medium dense (GM-SM)
			PA		
		2	SS		
582.8	4.0	2A	SS		Highly weathered soft shale, thinly bedded
			RB		
581.8	5.0				Hard shaly limestone
581.4	5.4	RUN 1	DB		Moderately weathered soft shale. Recovery = 100%. RQD = 88%
					Qu = 12,180 psi
					Qu = 10,500 psi
576.8	10.0				

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

WL	Boring started 9/13/04	STS office Chicago Area - 01	
WL	Boring completed 9/13/04	Entered by KKB	Sheet no. 2 of 2
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by 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-1

SURFACE ELEVATION +586.8 NGVD (Continued)

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
576.8	10.0	RUN 1	DB		Hard shaly limestone
575.9	10.9				Moderately weathered soft shale
573.8	13.0				Hard shaly limestone
573.7	13.1				Moderately weathered soft shale
572.8	14.0				Hard shaly limestone
572.7	14.1				Moderately weathered soft shale
571.8	15.0				End of Boring. Borehole grouted upon completion. Casing used: 5 ft. of 4 in. Automatic-Diedrich 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 9/13/04	STS office Chicago Area - 01	
WL	Boring completed 9/13/04	Entered by KKB	Sheet no. 2 of 2
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by 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-2

SURFACE ELEVATION +590.6 NGVD

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
590.1	0.5				Water
		1	SS		Gravelly fine to coarse sand, trace silt - gray - medium dense (GM-SM)
			PA		
		2	SS		
586.4	4.2		RB		Highly weathered soft shale, thinly bedded
585.6	5.0				Moderately weathered soft shale
585.2	5.4	RUN 1	DB		Hard shaly limestone. Recovery = 57%. RQD = 69%
582.5	8.1				Moderately weathered soft shale
580.5	10.1				Hard shaly limestone
580.0	10.6				Moderately weathered soft shale
579.6	11.0				Hard shaly limestone
579.5	11.1				Moderately weathered soft shale

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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. 1 of 2
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by 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-2

SURFACE ELEVATION +590.6 NGVD (Continued)

Elev. (ft)	Depth (ft)	Sample No.	Sample Type	Recovery	Description
		RUN 1	DB		Moderately weathered soft shale
577.6	13.0				Hard shaly limestone
575.6	15.0				End of Boring. Borehole grouted upon completion. Casing used: 5 ft. of 4 in. Automatic-Diedrich 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 9/10/04	STS office Chicago Area - 01	
WL	Boring completed 9/10/04	Entered by KKB	Sheet no. 2 of 2
WL	Rig/Foreman Bomb/Lehtinen	Appr'd by DSD	STS job no. 34098

LOCATION OF BORINGS ON SHEET 6

FR-422

Designed by MD Checked by RLM
Drawn by MD Checked by RLM

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