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 +582.1 NGVD

Elev.	Depth	Sample No.	Type	Description
582.1	0.0			Topsoil
	0.7	1	SS	Fill: Silty fine to coarse sand, little gravel, trace clay, crushed concrete and brick - brown - medium dense - moist (SM)
	1.0		PA	
	2.0			
	3.0	2	SS	
	4.0		PA	
	5.0			
	6.0	3	SS	
	7.0		PA	
	8.0	4	SS	
	8.5	4A	SS	Highly weathered soft shale and interbedded limestone
	9.0			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 %: 10 20 30 40 50
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	App'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.	Depth	Sample No.	Type	Description
578.1	0.0			Topsoil
	0.5	1	SS	Fill: Silty fine to coarse sand, little gravel, trace clay, roots, wood and crushed concrete - brown - medium dense to loose (SM)
	1.0		PA	
	2.0			
	3.0	2	SS	
	4.0		PA	
	5.0			
	6.0	3	SS	
	6.5			Gravelly fine to coarse sand, little silt, trace clay and organics - gray - loose (GM-SM) (Possible fill)
	7.0	3A	SS	
			PA	Clayey between 7.5 and 9.5 ft.
	8.0	4	SS	
	9.0			
	10.0		PA	

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

. . . continued

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 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: A-9

SURFACE ELEVATION +576.1 NGVD (Continued)

Elev.	Depth	Sample No.	Type	Description
		5	SS	Gravelly fine to coarse sand, little silt, trace clay and organics - gray - loose (GM-SM) (Possible fill)
	11.0			
	11.3	5A	SS	Highly weathered soft shale
				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 %: 10 20 30 40 50
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: 9/14/04	STS office: Chicago Area - 01	
WL	Boring completed: 9/14/04	Entered by: KKB	Sheet no. 2 of 2
WL	Rig/foreman: Bomb/Lehtinen	App'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.	Depth	Sample No.	Type	Description
572.5	0.0	1	SS	Fill: Silty fine to coarse sand, little clay, trace gravel and shale - brown - medium dense (SM)
	1.0		PA	
	2.0			
	3.0	2	SS	
	4.0		PA	
	5.0			
	5.3	3	SS*	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.

Unconfined compressive strength (tons/ft²): 1 2 3 4 5
Plastic limit % — Water content % — Liquid limit %: 10 20 30 40 50
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: 9/14/04	STS office: Chicago Area - 01	
WL	Boring completed: 9/14/04	Entered by: KKB	Sheet no. 1 of 1
WL	Rig/foreman: Bomb/Lehtinen	App'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 +588.8 NGVD

Elev.	Depth	Sample No.	Type	Description
588.8	0.0			Water
	0.5	1	SS	Gravelly fine to coarse sand, trace silt and organics - gray - loose to medium dense (GM-SM)
	1.0		PA	
	2.0			
	3.0	2	SS	
	4.0	2A	SS	Highly weathered soft shale, thinly bedded
			RB	
	5.0			Hard shaly limestone
	5.4			Moderately weathered soft shale. Recovery = 100%. RQD = 86%
	6.0			
	7.0			
	8.0	RUN 1	DB	Qu = 12,180 psi
	9.0			
	10.0			Qu = 10,800 psi
	10.6			

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

. . . continued

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 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-1

SURFACE ELEVATION +588.8 NGVD (Continued)

Elev.	Depth	Sample No.	Type	Description
	10.9			Hard shaly limestone
				Moderately weathered soft shale
	11.0			
	12.0			
	12.6	RUN 1	DB	Hard shaly limestone
	13.0			
	13.1			Moderately weathered soft shale
	13.6			Hard shaly limestone
	14.0			
	14.1			Moderately weathered soft shale
	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	App'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 +589.6 NGVD

Elev.	Depth	Sample No.	Type	Description
589.6	0.0			Water
	0.5	1	SS	Gravelly fine to coarse sand, trace silt - gray - medium dense (GM-SM)
	1.0		PA	
	2.0			
	3.0	2	SS	
	3.4			Highly weathered soft shale, thinly bedded
	4.0		RB	
	5.0			
	5.2			Moderately weathered soft shale
				Hard shaly limestone. Recovery = 87%. RQD = 69%
	6.0			
	6.1			Moderately weathered soft shale
	7.0			
	7.5			Hard shaly limestone
	8.0	RUN 1	DB	
	8.0			Moderately weathered soft shale
	9.0			
	9.0			Hard shaly limestone
	9.7			
	9.7			Moderately weathered soft shale
	10.0			
	10.3			Hard shaly limestone
	10.7			
	11.0			Moderately weathered soft shale

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

. . . continued

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 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-2

SURFACE ELEVATION +589.6 NGVD (Continued)

Elev.	Depth	Sample No.	Type	Description
				Moderately weathered soft shale
	12.0			
	13.0	RUN 1	DB	Hard shaly limestone
	13.0			
	14.0			
	15.0			End of Boring. Borehole grouted upon completion. Casing used: 5 ft. of 4 in. Automatic-Diedrich Hammer used for Standard Penetration Tests.

Unconfined compressive strength (tons/ft²): 1 2 3 4 5
Plastic limit % — Water content % — Liquid limit %: 10 20 30 40 50
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: 9/10/04	STS office: Chicago Area - 01	
WL	Boring completed: 9/10/04	Entered by: KKB	Sheet no. 2 of 2
WL	Rig/foreman: Bomb/Lehtinen	App'd by: DSD	STS job no. 34098

LOCATION OF BORINGS ON SHEET B2

FR–423

Designed by JPR Checked by TKL
Drawn by JPR Checked by TKL
lilientk 4:51:50 PM S:\DOCUMENT\02348801\CIVIL\DGN\BOL00QYHL.DGN
10/09/2007 Ref: jpr_cons4