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

SURFACE ELEVATION +575.5 NGVD

- Water
- 3.0 Gravelly fine to coarse sand, little silt, trace clay and organics - brownish gray - medium dense (SM) With coarse gravel at 5 to 7 ft.
- 8.5 Gravelly fine to coarse sand, little silt, trace clay - gray - medium dense (SM-GM) With occasional thin organic seams noted.

. . . 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 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

SURFACE ELEVATION +575.5 NGVD (Continued)

- 13.0 Gravelly fine to coarse sand, little silt, trace clay - gray - medium dense (SM-GM) With occasional thin organic seams noted.
- Hard shaly limestone
- 13.7 Moderately weathered soft shale Recovery = 74% RQD = 64%
- 14.9 Hard shaly limestone
- 15.2 Moderately weathered soft shale
- 16.0 Hard shaly limestone
- 16.4 Moderately weathered soft shale
- 17.8 Hard shaly limestone
- 18.3 Moderately weathered soft shale
- 19.0 Hard shaly limestone
- 20.0

. . . 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. 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

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

- 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.

BORING STARTED 8/26/04	STS OFFICE Chicago Area - 01		
BORING COMPLETED 8/26/04	ENTERED BY KKB	SHEET NO 3 OF 3	
RIG/FOREMAN Joy 12-Barge/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-7

SURFACE ELEVATION +575.5 NGVD

- Water
- 8.5 Silty fine to coarse sand, little gravel, trace clay, organics and shells - brown - loose (SM)
- 9.5 Clayey fine to coarse sand, little gravel - gray - medium dense to dense (SM-GM)
- 9.3 Highly weathered soft shale, thinly bedded

. . . 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. 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

SURFACE ELEVATION +575.5 NGVD (Continued)

- Highly weathered soft shale, thinly bedded
- 10.8 Hard shaly limestone
- 11.6 Moderately weathered soft shale Recovery = 77% RQD = 51%
  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.

- 17.8 Hard shaly limestone Qu = 12,525 psi
- 18.4 Moderately weathered soft shale

. . . 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

SURFACE ELEVATION +575.5 NGVD (Continued)

- Moderately weathered soft shale
- 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.

BORING STARTED 8/27/04	STS OFFICE Chicago Area - 01		
BORING COMPLETED 8/27/04	ENTERED BY KKB	SHEET NO 3 OF 3	
RIG/FOREMAN Joy 12-Barge/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-11

SURFACE ELEVATION +589.8 NGVD

- Water
- 1.0 Gravelly fine to coarse sand, trace silt and organics - gray - dense (GM-SM)
- 7.5 Highly weathered shale
- 9.0 Moderately weathered soft shale Recovery = 64% RQD = 41%

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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. 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

SURFACE ELEVATION +589.8 NGVD (Continued)

- Moderately weathered soft shale Recovery = 64% RQD = 41%
- 11.9 Hard shaly limestone
- 12.6 Moderately weathered soft shale
- 13.5 Hard shaly limestone
- 14.8 Moderately weathered soft shale Qu = 11,055 psi
- 19.0 End of Boring
  Borehole grouted upon completion.
  Casing used: 5 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.

BORING STARTED 8/10/04	STS OFFICE Chicago Area - 01		
BORING COMPLETED 8/10/04	ENTERED BY KKB	SHEET NO 2 OF 2	
RIG/FOREMAN Bomb/Lehtinen	APP'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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