Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Date 04/04/12

ROUTE FAP 312 DESCRIPTION Waterloo Bypass - Shared Use Culvert Boring LOGGED BY SCI (JAS)

SECTION 68-WRS-1 LOCATION NW 1/4 of the NE 1/4, SEC. 36, TWP. 2S, RNG. 10W

COUNTY Monroe DRILLING METHOD CME 750 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 067-2427
Station 2019+30

BORING NO. B-202
Station 2019+25
Offset 11 ft LT
Ground Surface Elev. 626.0 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 604.5 ft ▼
Upon Completion 598.5 ft ▽
After -- Hrs. Not Obs. ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT - 12 inches				
FILL: Gray, silt, trace crushed rock, asphalt and organics [A-4]		3 7 7	>4.5 P	22
FILL: Greenish gray, silty clay, trace sand, crushed rock, and cinders [A-6]	-5	2 5 4	3.3 S/15	18
SILT: Gray [A-4]		WOH	0.4 B	25
CLAY: Gray, with iron stains [A-7]		WOH 2	1.2 B	24
SILTY CLAY: Brownish gray, with iron stains and nodules [A-6]	-10	1 2 4	1.2 S/15	24
CLAY: Gray, with iron stains, trace sand [A-7]		1 3 5	2.5 B	22
Trace gravel	-15	2 3 6	2.5 B	21
Trace iron nodules			1.5 S/4.7	20
With sand, trace gravel	-20	3 6 7	3.3 B	14
CLAY: Gray, with iron stains, trace sand [A-7] *(continued)*				
Trace sand and gravel		2 3 5	2.0 B	21
Sandstone and chert fragments observed	-25	WOH 3 5	2.1 B	22
SILTY CLAY: Gray, with sand, trace gravel [A-6]		2 6 8	3.5 B	16
Becomes gray and brown		5 5 6	3.1 S/15	20
Soft layer with organics observed	-30			
CLAY: Gray, trace sand, gravel, organics, and coal [A-7]				
	-35	2 3 3	1.4 B	18
Trace shale fragments	-40	WOH 2 3	1.2 B	20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Date 04/04/12

ROUTE FAP 312 DESCRIPTION Waterloo Bypass - Shared Use Culvert Boring LOGGED BY SCI (JAS)

SECTION 68-WRS-1 LOCATION NW 1/4 of the NE 1/4, SEC. 36, TWP. 2S, RNG. 10W

COUNTY Monroe DRILLING METHOD CME 750 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 067-2427
Station 2019+30

BORING NO. B-202
Station 2019+25
Offset 11 ft LT
Ground Surface Elev. 626.0 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 604.5 ft ▼
Upon Completion 598.5 ft ▽
After -- Hrs. Not Obs. ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Gray, trace sand, gravel, organics, and coal [A-7] *(continued)*				
With sand	-45	2 4 5	1.6 B	20
Auger refusal at 46.5 ft.				
SANDSTONE: Gray		50/2"	>4.5 P	14
Sampler refusal at 46.7 ft.				
Boring grouted to 46.7 ft.	-50			
	-55			
	-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)