

**SHELBY TUBE TEST: RW-410 ST (1 of 2)**

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**SHELBY TUBE TEST RESULTS**

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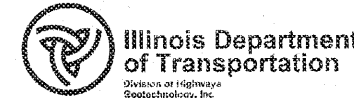
Date 4/21/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange DRILLED BY BS  
 SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W  
 COUNTY St. Clair STRUCT. NO. 082-0322  
 Station NA  
 BORING NO. RW-410ST  
 Station 77 Ground Surface Elev. 417.6 ft Tube Length 24 in  
 Offset 36ft Right Begin Sampling Depth -1 ft Tube Diameter 3 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECCIMEN		UNIT WEIGHT		STRENGTH		MOISTURE		COHESION (tsf)	PHI (deg)	TEST TYPE
		(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)				
Gray to black, CLAY (FILL), with roots, cinders, tile fragments, and gravel	1-1	100	103		31							CU
Gray to black, CLAY (FILL), with roots, cinders, tile fragments, and gravel	1-2	100	91	0.5	45							CU
Gray to black, CLAY (FILL), with roots, cinders, tile fragments, and gravel	1-3	67			35							CU
Black, SAND (FILL), cinders, with slag, roots, and brick fragments	2-1	100			21							CU
Gray to black, CLAY LOAM	2-2	100	112		30							CU
Gray CLAY, with iron staining	2-3	100	114	0.8	33							CU
Gray CLAY, with iron staining	2-4	33										CU
Gray, CLAY	3-1	100	112	1.2	34							CU
Gray, CLAY	3-2	100	112	1.3	36							CU
Gray, CLAY	3-3	100	117		29							CU
Gray, SILTY LOAM, with clay partings	4-1	100	113		31							UU
Gray, SILTY LOAM, with clay partings	4-2	100										CU
Gray, SILTY LOAM, with clay partings	4-3	100	112	0.7	29							CU
Gray, SILTY LOAM, with clay partings	4-4	33	114		30							CU
Brown, SILTY LOAM	5-1	100										CU
Green, CLAY	5-2	100	107		45							CU
Gray, SILTY LOAM	5-3	100	118		37	0.0	39					CU
Gray, SILTY LOAM	5-4	67	113		32							CU
Gray, CLAY	6-1	100			39							CU
Gray, SANDY CLAY LOAM	6-2	100	114	0.2	34							UU
Gray, SANDY CLAY LOAM, trace gravel	6-3	100	114	0.4	34							CU
Gray, CLAY	6-4	83	117		33							CU
Gray, SANDY LOAM	7-1	100										CU
Gray, CLAY, with iron staining	7-2	100	116		33							CU

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample  
 The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)  
 The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

BMPR FORM 1004A (Rev. 8-89)



**SHELBY TUBE TEST RESULTS**

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Date 4/21/09

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		(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)				
Gray, CLAY, with iron staining	7-3	100	113		43	0.0	29					CU
Gray, CLAY, with iron staining	7-4	83	111		42							CU
Gray, SILTY CLAY LOAM	8-1	100	110		42							CU
Gray, SILTY CLAY LOAM	8-2	100	114	0.4	35							CU
Gray, SILTY CLAY LOAM	8-3	100	110	0.5	43							CU
Medium stiff, gray, SILTY LOAM with iron staining	9-1	100	117		35							UU
Medium stiff, gray, SILTY LOAM with iron staining	9-2	100	117	0.8	32							UU
Medium stiff, gray, SILTY LOAM with iron staining	9-3	100	117	0.6	33							UU
Medium stiff, gray, SILTY LOAM with iron staining	9-4	33										UU
Brown, SANDY LOAM	10-1	100			22							UU
Medium stiff, gray, SILTY CLAY LOAM, with iron nodules	10-2	100	119		30							UU
Medium stiff, gray CLAY LOAM, with iron nodules	10-3	100	116	1.0	33							UU
Medium stiff, gray CLAY LOAM, with iron nodules	10-4	33										UU
Soft, gray, CLAY, with iron staining	11-1	100	116		26							UU
Medium stiff, gray, SILTY LOAM, with iron nodules	11-2	100			23							UU
Gray, SANDY LOAM, with iron staining	11-3	100			15							UU
Brown, SILTY CLAY LOAM	12-1	100	116		24							UU
Brown, SILTY LOAM	12-2	100			24							UU
Brown, SILTY LOAM	12-3	67	112		24							UU
Brown, SANDY LOAM	13-1	100	108		19							UU
Brown, SANDY LOAM	13-2	67			11							UU
Brown, SANDY LOAM	13-3	33	101		7							UU

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USER NAME =	DESIGNED - PJL	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - BRD	REVISED -
PLOT DATE = 6/27/2011	CHECKED - DDB	REVISED -
	DATE - 07-01-11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS XXIX  
I-70E OVER I-55, CSX & KCS RAILROADS**

SCALE: SHEET S-218 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	345
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		