



10-23 K-8392-04

K-10 Over Naismith Creek

Br. 10-23-9.57 (165) (D)

Douglas County

CD02

N:38.926448 -95.241284 (Approx.)

NW 1/4, NW 1/4, NW 1/4, S18, T13S, R20E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	10-Douglas	SOUNDING NO.	CH-2	SHEET 1 of 2
BRIDGE STA.	701+75	PROJ. NO.	K-8392-04	BRIDGE NO. 10-23-9.57 (165)
SITE NAME	South Lawrence Trafficway, Bridge D			HOLE STA. 701+46.35, 9.5' Rt CL
GEOLOGIST	K. Halverson	SCALE	1 inch = 10.0 feet	DATE December 28, 2010
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV. 818.75
GW ELEV.	N/A	TOTAL DEPTH	88.0	M/B ELEV. 764.75

BOREHOLE REPORT - KANSAS DOT.GDT - 9/14/11 11:07 - C:\USERS\KYLE\DESKTOP\PROJECTS\K-8392-04 SOUTH LAWRENCE TRAFFICWAY BRIDGES C-D\SOUTH LAWRENCE TRAFFICWAY BRIDGE D.GPJ
8" Hollow Augers

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION		
	Alluvium / Soil Mantle			818.8	Silty Clay, dark brown to black, moist, medium stiff to soft						
			7.0	811.8	Clay, black to dark brown, moist, medium stiff					812.95	
			10.0	808.8	Clay, black, to dark gray, stiff, moist						
						805		0.805	39500		802.95
			21.0	797.8	Clay, dark gray to black, very stiff, moist @22' became wet						792.95
			26.0	792.8	Clay, dark gray to black, wet, sandy, stiff to very stiff						
						790					
						785					782.95
						780					
						775					
			45.8	773.0	Clay with silt, blue gray, moist, very stiff			0.6	30500		772.95
			50.0	768.8	Sand with gravel and clay, moist, coarse to fine grained, dense						
			52.0	766.8	Sand with cobbles and clay, moist, very dense, coarse to fine grained						
			54.0	764.8	Shale, greenish gray, hard, sandy						
1			57.0	761.8	Sandstone, gray, very closely fractured, very hard to hard, fine grained, well cemented, non-weathered						
2	58.0	760.8									



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	10-Douglas	SOUNDING NO.	CH-2	SHEET 2 of 2
BRIDGE STA.	701+75	PROJ. NO.	K-8392-04	BRIDGE NO. 10-23-9.57 (165)
SITE NAME	South Lawrence Trafficway, Bridge D			HOLE STA. 701+46.35, 9.5' Rt CL

BOREHOLE REPORT - KANSAS DOT.GDT - 9/14/11 11:07 - C:\USERS\KYLE\DESKTOP\PROJECTS\K-8392-04 SOUTH LAWRENCE TRAFFICWAY\BRIDGES C-D\SOUTH LAWRENCE TRAFFICWAY\BRIDGE D.GPJ

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION																																																														
	Diamond Stranger Formation	2			Sandstone with occasional Shale seams, very closely fractured, very hard, fine grained, well cemented, gray, non-weathered	10.55	965000		755.75																																																														
		3	63.0	755	Sandstone with occasional Shale seams, closely fractured, non-weathered, very hard, fine grained, gray, well cemented, occasional coal seam (less than .02')	139	5.76E+07		752.95																																																														
		4		750		467	2.21E+08		747.95																																																														
		5		745	131.5	5.97E+07		747.15																																																															
		6		740	132	5.62E+07		742.55																																																															
		7	83.0	735	Sandstone, gray, occasional coal seam (less than .01') very hard, well cemented, closely fractured, non-weathered	186	7.69E+07		738.05																																																														
				735.8		170.5	8.71E+07		733.65																																																														
			88.0	730.75	T.D. = 88																																																																		
					<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Core</th> <th>Depth</th> <th>Elev.</th> <th>Cut</th> <th>Rec</th> <th>Rec %</th> <th>RQD</th> </tr> </thead> <tbody> <tr><td>1</td><td>57.0</td><td>761.75</td><td>1.0</td><td>1.0</td><td>100</td><td>0%</td></tr> <tr><td>2</td><td>58.0</td><td>760.75</td><td>5.0</td><td>5.0</td><td>100</td><td>13%</td></tr> <tr><td>3</td><td>63.0</td><td>755.75</td><td>5.0</td><td>5.0</td><td>100</td><td>44%</td></tr> <tr><td>4</td><td>68.0</td><td>750.75</td><td>5.0</td><td>5.0</td><td>100</td><td>36%</td></tr> <tr><td>5</td><td>73.0</td><td>745.75</td><td>5.0</td><td>4.6</td><td>92</td><td>40%</td></tr> <tr><td>6</td><td>78.0</td><td>740.75</td><td>5.0</td><td>5.0</td><td>100</td><td>66%</td></tr> <tr><td>7</td><td>83.0</td><td>735.75</td><td>5.0</td><td>5.0</td><td>100</td><td>86%</td></tr> <tr><td>Total</td><td>88</td><td>730.75</td><td>31.0</td><td>30.6</td><td>99</td><td>46%</td></tr> </tbody> </table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	57.0	761.75	1.0	1.0	100	0%	2	58.0	760.75	5.0	5.0	100	13%	3	63.0	755.75	5.0	5.0	100	44%	4	68.0	750.75	5.0	5.0	100	36%	5	73.0	745.75	5.0	4.6	92	40%	6	78.0	740.75	5.0	5.0	100	66%	7	83.0	735.75	5.0	5.0	100	86%	Total	88	730.75	31.0	30.6	99	46%			
Core	Depth	Elev.	Cut	Rec	Rec %	RQD																																																																	
1	57.0	761.75	1.0	1.0	100	0%																																																																	
2	58.0	760.75	5.0	5.0	100	13%																																																																	
3	63.0	755.75	5.0	5.0	100	44%																																																																	
4	68.0	750.75	5.0	5.0	100	36%																																																																	
5	73.0	745.75	5.0	4.6	92	40%																																																																	
6	78.0	740.75	5.0	5.0	100	66%																																																																	
7	83.0	735.75	5.0	5.0	100	86%																																																																	
Total	88	730.75	31.0	30.6	99	46%																																																																	