

LEGEND - RSV ENGINEERING INC. (NOW BLOOM CONSULTANTS, LLC) TEST BORING LOGS

A-1 to A-7 (and subgroups) Engineering classifications of soil samples in accordance with AASHTO M 145 standard specification.

BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

q_u, kPa Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification.

STRAIN, % Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification).

WATER CONTENT, % Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 standard specification.

Penetrometer Estimate An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device.

50 mm ST 50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification.

γ_d Dry unit weight of soil specimen in kilograms per cubic meter.

REC. Length of sample recovered in millimeters.

ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	598	1360
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 68200				

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS						
BORING LOG								
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-14	STATION: 104674					
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8555	OFFSET: 4.0m Rt					
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers		SURF ELEV: 196.17						
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
110mm Root Zone Material: Black Silty Loam A-4; Organic matter noted	196.05		0.00-0.30	Auger 4				
			0.30-0.76	356	11-19	43#		14
Hard to Very Stiff Br & Gr Clay Loam A-6			1.07-1.52	432	12-11	43#		18
	193.73		1.83-2.29	457	8-11	335	15	15
Hard to Very Stiff Br & Gr Clay Loam A-6			2.59-3.05	457	10-11	488	15	20
	192.21		3.35-3.81	457	5-8	201	15	14
Stiff Br & Gr Silty Loam A-7-6			4.11-4.57	457	4-7	153	15	25
	190.68	5	4.88-5.33	229	8-15	124	15	18
			5.64-6.10	457	14-18	469	15	13
			6.40-6.86	457	14-17	440	15	12
			7.16-7.62	457	15-20	431	15	13
			7.92-8.38	457	16-18	431	15	14
Hard to Very Stiff Br Loam A-4 175mm Sand seam noted at 8.1m			8.69-9.14	457	9-11	278	15	13
			9.45-9.91	457	12-15	335	15	12
		10	10.21-10.67	457	8-12	316	15	13
			10.97-11.43	457	12-17	316	15	14
Very Dense to Extremely Dense Br Sand A-1-b	184.28		11.73-12.19	330	16 24-35			13
REMARKS				*Denotes Calibrated Penetrometer Estimate				
WATER Drym ELEV. DURING DRILLING				CORE SIZE mm DATE: Mar 1, 00				
WATER m ELEV. AT COMPLETION				CASING LENGTH m DRILLER: FehI				
WATER 6.7m ELEV. 189.46 AFTER 24 HRS.				CASING DIAMETER mm INSPECTOR: Shock				

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Very Dense to Extremely Dense Br Sand A-1-b	183.21		12.50-12.95	41	77-92			4
Boring terminated at 13.0m								
REMARKS				*Denotes Calibrated Penetrometer Estimate				
WATER Drym ELEV. DURING DRILLING				CORE SIZE mm DATE: Mar 1, 00				
WATER m ELEV. AT COMPLETION				CASING LENGTH m DRILLER: FehI				
WATER 6.7m ELEV. 189.46 AFTER 24 HRS.				CASING DIAMETER mm INSPECTOR: Shock				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
BORING LOGS XIII			
MSE WALL NO. 8 - RAMP A-3 F.A.I. ROUTE 74 SECTION (72-7) R-3 PEORIA COUNTY STA. 10+426.116 TO STA. 10+673.439 (RAMP A-3) STRUCTURE NUMBER 072-8556			
PARSONS TRANSPORTATION GROUP CHICAGO, ILLINOIS			
DRAWING NO. 22	SCALE N.T.S.	DATE 6-25-04	SHEET NO. 22

Time: 12:02:59 PM

Date: 11/22/2004

Filename: P:\649996\struc\ur\A3\072-8556\sheet\Tr\acIngs\BL0019-A0728556.dgn