

SOIL DESCRIPTION		ELEV.	DEPTH	SAMPLE FROM - TO	REC.	BLOWS 30mm	%	STRAIN %	WATER CONTENT %
100mm Root Zone Material: Black Silty Loam A-4; Organic matter noted		146.97		0.00-0.30	Auger 4				14
Medium Dense Br Sandy Loam A-3-4		147.74		0.30-0.76	330	9-13			7
Gr to Br SANDSTONE (weakly cemented)				1.07-1.52	457	78-82			10
				1.83-2.29	356	15-12			10
Soft Gr Clay A-7-6 intermixed with Sandstone and Shale fragments (possible partially filled void)		145.07		2.59-3.05	457	2-8		38	28
		145.81		3.35-3.41	51	100'			8
				4.11-4.27	162	150mm			11
				4.88-4.94	51	50mm			7
Gr SHALE (moderately to slightly indurified); Coal pockets noted				5.64-5.88	229	77-100'		871	10
				6.40-6.71	305	51-100'			12
				7.16-7.50	406	71-46			17
						54/100			
Boring terminated at 8.1m									
REMARKS: Straight auger from 7.5m to 8.1m to check for voids and to reach a minimum elevation of 141.5m. * Density Calculated; Penetration Estimate.									
WATER	Dry m	ELEV.	DURING DRILLING	CORE SIZE	mm	DATE	Jun 16, 00		
WATER	m	ELEV.	AT COMPLETION	CASING LENGTH	m	DRILLER:	Fehl		
WATER	Dry m	ELEV.	AFTER 14 HRS.	CASING DIAMETER	mm	INSPECTOR:	Reed		

CLASSIFICATION		Depth	N	Q _u	W	T _d	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
FILL: BR SAND, A-2-4			3	-	8	-	BR	12-15	5.3	0	MOBILE	PA-1.5m
			3	-	11	-	WC	12-17	7.7	2d		PA-1.5m
			4	-	9	-						PA-1.5m
												PA-1.5m
150.32												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BR SAND, A-2-4		1	3	-	9	-	BR	12-15	5.3	0	MOBILE	PA-1.5m
			3	-	11	-	WC	12-17	7.7	2d		PA-1.5m
			4	-	9	-						PA-1.5m
143.92												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
DK GR TO GR LAMINATED CLAY SHALE		1	3	-	16	-						
			3	-	11	-						
			4	-	9	-						
149.63												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
DK GR TO GR LAMINATED CLAY SHALE		1	3	-	14	-						
			3	-	11	-						
			4	-	9	-						
149.02												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
DK GR TO GR LAMINATED CLAY SHALE		1	3	-	14	-						
			3	-	11	-						
			4	-	9	-						
147.19												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BR & GR SAND, A-3		1	3	-	16	-						
			3	-	11	-						
			4	-	9	-						
145.97												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BR & GR HEAVILY CEMENTED SANDSTONE		1	3	-	9	-						
			3	-	11	-						
			4	-	9	-						
145.36												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BLK CINDERS W/ COAL FRAGMENTS		1	3	-	26	-						
			3	-	11	-						
			4	-	9	-						
144.14												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
DK GR TO GR LAMINATED CLAY SHALE		1	3	-	67	-						
			3	-	11	-						
			4	-	9	-						

CLASSIFICATION		Depth	N	Q _u	W	T _d	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
FILL: BR GRAVELLY SAND, A-1-a			5	-	8	-	BR	12-18	0	MOBILE	PA-1.5m	PA-1.5m
			3	-	11	-	WC	12-19	2.1	1d		PA-1.5m
			4	-	9	-						PA-1.5m
150.24												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BR SAND, A-2-4		1	3	-	14	-						
			3	-	11	-						
			4	-	9	-						
149.63												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
GR SILTY LOAM, A-4		1	7	-	11	-						
			8	-	14	-						
			9	-	11	-						
149.02												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
DK GR TO GR LAMINATED CLAY SHALE		1	10	-	14	-						
			12	-	14	-						
			13	-	14	-						
147.19												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BR LOAM, A-4		1	7	-	13	-						
			8	-	13	-						
			9	-	13	-						
147.19												
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			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BR & GR SAND, A-3		1	7	-	16	-						
			5	-	16	-						
			7	-	16	-						
145.97												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BR & GR HEAVILY CEMENTED SANDSTONE		1	5	-	9	-						
			8	-	9	-						
			19	-	9	-						
145.36												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
			Bp0.15m	KPa	%	Kg/m ³	DATE	DEPTH	HOUR	RIG TYPE	MOBILE	PA-1.5m
BLK CINDERS W/ COAL FRAGMENTS		1	8	-	14	-						
			8	-	14	-						
			9	-	26	-						
144.14												
CLASSIFICATION		Depth	N	Q _u <td>W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td></td>	W <td>T_d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td> </td>	T _d <td colspan="3">GROUNDWATER DATA</td> <td colspan="3">DRILLING METHOD</td>	GROUNDWATER DATA			DRILLING METHOD		
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DK GR TO GR LAMINATED CLAY SHALE		1	3	-	67	-						
			3	-	11	-						
			2	-	67	-						

LIN ENGINEERING, LTD.
 200 N. Chestnut
 Chicago, Illinois 60629
 773.291.483-4106
 Designed By: MTH Checked By: KRJ Drawn By: JMD
 Date: 05/02 File: rp0417-56098512.dgn

REVISIONS	
NO.	DESCRIPTION

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SOIL BORING DATA
 RETAINING WALL 81
 F.A.I. RTE. 74 (I-74)
 SECTION 90-11HB-5
 TAZEWELL COUNTY
 RAMP J-3 STATION 10+037 TO 10+213
 S.N. 090-8512