

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
578.1	1-inch thick brown SILTY LOAM --TOPSOIL-- Very loose to loose, brown and gray to gray LOAM, trace gravel --FILL--	1	4	NP	4			578.1	--In-Situ Vane Shear, 25.5 feet-- --Su undis = 1243.2 psf-- --Su remold = 725.2 psf-- --Sensitivity = 1.714--	1	4	NP	4		
570.2	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	2	2	NP	2			570.2	--LL(%)=35, PL(%)=17-- --%Gravel=2.6-- --%Sand=9.8-- --%Silt=46.6-- --%Clay=41.0--30 --A-6 (15)--	2	2	NP	2		
		3	1	P	1	0.25			--In-Situ Vane Shear, 30.5 feet-- --Su undis = 2481.6 psf-- --Su remold = 1085.7 psf-- --Sensitivity = 2.29--	3	1	P	1	0.25	
		4	1	B	1	0.41			--In-Situ Vane Shear, 10.5 feet-- --Su undis = 673.4 psf-- --Su remold = 466.2 psf-- --Sensitivity = 1.44--	4	1	B	1	0.41	
		5	0	B	0	0.49		538.5	--In-Situ Vane Shear, 35.5 feet-- --Su undis = 1964.6 psf-- --Su remold = 1344.2 psf-- --Sensitivity = 1.46--	5	0	B	0	0.49	
		6	1	B	1	0.49			Stiff to very stiff, gray SILTY CLAY, trace gravel	6	1	B	1	0.49	
		7	0	B	0	0.16				7	0	B	0	0.16	
		8	0	B	0	0.25				8	0	B	0	0.25	
		9	1	B	1	0.41		529.0	Very stiff, gray CLAY, trace gravel	9	1	B	1	0.41	
		10	2	B	2	0.49			--LL(%)=37, PL(%)=18-- --%Gravel=0.6-- --%Sand=3.6--50	10	2	B	2	0.49	

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	08-13-2013	Complete Drilling	08-15-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Drilling Method	3.25" HSA, boring backfilled upon completion
White Drilling	73.50 ft	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA

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524.0	Very dense, gray SILTY LOAM, trace gravel	11	2	S	2	0.57		524.0	--%Silt=49.4-- --%Clay=46.4-- --A-6 (19)--	11	2	S	2	0.57	
		12	2	S	2	0.25			--LL(%)=35, PL(%)=17-- --%Gravel=2.6-- --%Sand=9.8-- --%Silt=46.6-- --%Clay=41.0--30 --A-6 (15)--	12	2	S	2	0.25	
		17	29	NP	29			519.0	--In-Situ Vane Shear, 30.5 feet-- --Su undis = 2481.6 psf-- --Su remold = 1085.7 psf-- --Sensitivity = 2.29--	17	29	NP	29		
		18	27	S	27	7.80			Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	18	27	S	27	7.80	
		19	13	S	13	7.79		492.2	--LL(%)=29, PL(%)=16-- --%Gravel=1.9-- --%Sand=11.1--60	19	13	S	13	7.79	
		20	36	S	36	2.38		490.2	--In-Situ Vane Shear, 35.5 feet-- --Su undis = 1964.6 psf-- --Su remold = 1344.2 psf-- --Sensitivity = 1.46--	20	36	S	36	2.38	
		21	55	NP	55			490.2	Strong, good rock quality, light gray, fresh, mainly horizontal joints, joint breaks with little to no infill, horizontal stylolites, slightly vuggy, trace small cavities, horizontally bedded DOLOSTONE	21	55	NP	55		
		22	54	NP	54			490.2	--WEATHERED BEDROCK--	22	54	NP	54		
		23	75	NR	75			490.2	--Run 1-RECOVERY=82%-- --RQD =73%--90	23	75	NR	75		
		24	36	S	36	2.38		490.2	Very dense, gray SILTY LOAM, trace to some gravel	24	36	S	36	2.38	
		25	46	S	46			490.2	--LL(%)=19, PL(%)=13-- --%Gravel=8.7-- --%Sand=28.7--70 --%Silt=51.8-- --%Clay=10.7-- --A-4 (1)--	25	46	S	46		
		26	46	S	46				Boring terminated at 95.50 ft	26	46	S	46		
		27	46	S	46					27	46	S	46		
		28	46	S	46					28	46	S	46		
		29	46	S	46					29	46	S	46		
		30	46	S	46					30	46	S	46		
		31	46	S	46					31	46	S	46		
		32	46	S	46					32	46	S	46		
		33	46	S	46					33	46	S	46		
		34	46	S	46					34	46	S	46		
		35	46	S	46					35	46	S	46		
		36	46	S	46					36	46	S	46		
		37	46	S	46					37	46	S	46		
		38	46	S	46					38	46	S	46		
		39	46	S	46					39	46	S	46		
		40	46	S	46					40	46	S	46		
		41	46	S	46					41	46	S	46		
		42	46	S	46					42	46	S	46		
		43	46	S	46					43	46	S	46		
		44	46	S	46					44	46	S	46		
		45	46	S	46					45	46	S	46		
		46	46	S	46					46	46	S	46		
		47	46	S	46					47	46	S	46		
		48	46	S	46					48	46	S	46		
		49	46	S	46					49	46	S	46		
		50	46	S	46					50	46	S	46		

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	08-13-2013	Complete Drilling	08-15-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR
Driller	R&J	Logger	A. Tomaras
Checked by	C. Marin	Drilling Method	3.25" HSA, boring backfilled upon completion
White Drilling	73.50 ft	At Completion of Drilling	NA
Time After Drilling	NA	Depth to Water	NA

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526.1	6-inch thick, black SILTY LOAM --TOPSOIL-- Very stiff, brown and gray, SILTY CLAY LOAM, trace gravel, sand seams	1	4	P	4	3.50		526.1	--In-Situ Vane Shear, 25.5 feet-- --Su undis = 1217.3 psf-- --Su remold = 777 psf-- --Sensitivity = 1.56--	1	4	P	4	3.50	
523.6	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	2	2	B	2	0.41		523.6	--In-Situ Vane Shear, 5.5 feet-- --Su undis = 1320.9 psf-- --Su remold = 466.2 psf-- --Sensitivity = 2.83--	2	2	B	2	0.41	
		3	1	B	1	0.16			--In-Situ Vane Shear, 30.5 feet-- --Su undis = 1243.2 psf-- --Su remold = 569.8 psf-- --Sensitivity = 2.18--	3	1	B	1	0.16	
		4	0	B	0	0.16		588.6	Saturated SAND	4	0	B	0	0.16	
		5	1	B	1	0.16		582.2	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5	1	B	1	0.16	
		6	1	B	1	0.16			--In-Situ Vane Shear, 10.5 feet-- --Su undis = 828.8 psf-- --Su remold = 388.5 psf-- --Sensitivity = 2.13--	6	1	B	1	0.16	
		7	1	B	1	0.33			--In-Situ Vane Shear, 15.5 feet-- --Su undis = 828.8 psf-- --Su remold = 440.3 psf-- --Sensitivity = 1.88--	7	1	B	1	0.33	
		8	0	B	0	0.25			--In-Situ Vane Shear, 20.5 feet-- --Su undis = 1165.5 psf-- --Su remold = 466.2 psf-- --Sensitivity = 2.5--	8	0	B	0	0.25	
		9	1	B	1	0.49				9	1	B	1	0.49	
		10	1	B	1	0.41				10	1	B	1	0.41	
		11	1	B	1	0.49				11	1	B	1	0.49	
		12	2	B	2	0.49				12	2	B	2	0.49	
		13	3	B	3	0.57				13	3	B	3	0.57	
		14	4	B	4	1.64		541.1	--In-Situ Vane Shear, 35.5 feet-- --Torque >600 lbs--	14	4	B	4	1.64	
		15	6	B	6	1.97			Stiff to very stiff, gray SILTY CLAY, trace gravel	15	6	B	6	1.97	
		16	6	B	6	3.28				16	6	B	6	3.28	

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	09-30-2013	Complete Drilling	10-01-2013
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR
Driller	R&J	Logger	F. Bozga
Checked by	C. Marin	Drilling Method	3.25" HSA, boring backfilled upon completion
White Drilling	8.00 ft	At Completion of Drilling	NA
Time After Drilling	24 hours	Depth to Water	37.00 ft

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