

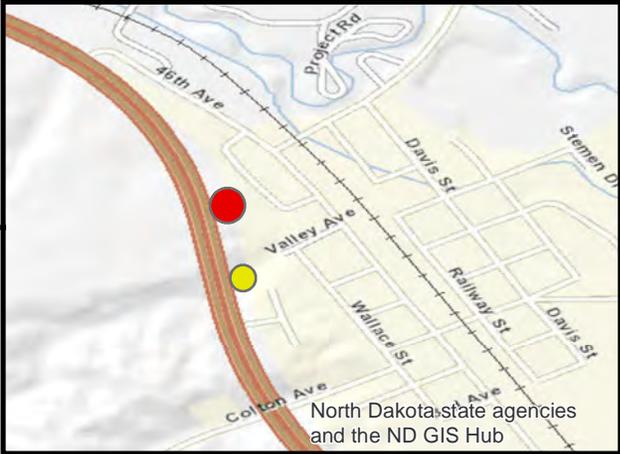
Burlington Slide and Erosion Area

Project: NH-4-002(114)137
PCN: 21122



Legend

- Boring #1
- Boring #2
- Boring #3



DEEP FOUNDATION BORING LOG

Department of Transportation, Materials and Research Division

300 Airport Road, Bismarck ND 58504 (701) 328-6900

Crew Chief Naumann	Boring No. 1	Elevation of Boring	Station	Offset 0 ft	Project No. NH-4-002(114)137	PCN 21128
Project Location			County WARD	Date Started 9/1/2015		Date Finished 9/30/2015

Samp. Type	Core No.	Core From	Depth To	SPT Blow	SPT Dis	Torvane		Sample Recov.	Jar No.	Sample No.	Horizon From	Depth To	Color	Text Class.	Consistency	Water Bear. (Y/N)	Remarks
						Reading Factor	Shear										
SS#1	1	0.0	2.0	10 8				0.3 2.0	1	1117	0.4	21.1	Brn	Sndy Cly	Stiff	N	Rock in tip. Sod to 0.4'.
Drill to 2.0'																	
SS#2	2	2.0	4.0	8 8				1.1 2.0	2	1118			Brn	Sndy Cly	Med Stiff	N	IO, coal deposits, pebble mix.
Drill to 5.0'																	
3TW# 1	3	5.0	7.0					1.0 2.0		1119			Brn	Sndy Cly		N	IO, coal deposits, grvl mix.
SS#3	4	7.0	9.0	5 6				1.5 2.0	3	1120			Brn	Sndy Cly	Med Stiff	N	IO, coal deposits, grvl mix.
Drill to 9.0'																	
3TW# 2	5	9.0	11.0					2.0 2.0		1121			Brn	Sndy Cly		N	IO, coal deposits, grvl mix.
SS#4	6	11.0	13.0	5 6				1.5 2.0	4	1122			Brn	Sndy Cly	Med Stiff	N	IO, coal deposits, grvl mix.
Drill to 14.0'																	
3TW# 3	7	14.0	16.0					1.5 2.0		1123			Brn	Sndy Cly		N	IO, coal deposits, grvl mix.
SS#5	8	16.0	18.0	5 5				1.5 2.0	5	1124			Brn	Sndy Cly	Med Stiff	N	IO, coal deposits, grvl mix.
Drill to 19.0'																	
3TW# 4	9	19.0	21.0					1.7 2.0		1125			Brn	Sndy Cly		N	Cly on top, water bearing crs snd on bottom.

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						Reading Factor	Shear										
SS#6	10	21.0	23.0	13				2.0	6	1126	21.1	30.0	Brn	Sly Cly	Stiff	N	Water bearing fn snd to 21.0'.
				13				2.0									
Drill to 24.0'																	
3TW# 5	11	24.0	26.0					2.0		1127			Brn	Sly Cly		N	Bent tube.
								2.0									
SS#7	12	26.0	26.8	0				0.8	7	1128			Brn	Sly Cly	Stiff	N	Brn
				13				0.8									
SS#7	12	26.8	28.0	16				1.2	8	1129			GRY	Sly Cly	Very Stiff	N	Gry
				0				1.2									
Drill to 28.0'																	
3TW# 6	13	29.0	30.0					1.0		1130	30.0	34.0	Blk	Coal		N	Very Hard at 30.0', bent tube.
								1.0									
SS#8	14	30.0	32.0	30				1.3	9	1131			Blk	Coal	Dence	Y	Coal.
				26				2.0									
Drill to 34.0'																	
SS#9	15	34.0	36.0	15				1.5	10	1132	34.0	55.0	Gry	Sly Cly	Stiff	N	Sly Cly.
				16				2.0									
Drill to 36.0'																	
SS#10	17	36.0	38.0	11				1.5	11	1133			Gry	Sly Cly	Very Stiff	N	Sly Cly.
				21				2.0									
Drill to 38.0'																	
3TW# 7	17	39.0	41.0					0.0								N	Shelby broke off head.Run split down center of shelby.
								2.0									
SS#11	18	39.0	41.0	31				2.0	12	1135			Gry	Sly Cly	Hard	N	Drill down to 41.0', run split down center of shelby.
				57				2.0									
Drill to 44.0'																	Pushed shelby out bottom. Drilled past to 44.0'.

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						Reading Factor	Shear										
SS#20	27	64.0	66.0	25 32				2.0 2.0	20	1143			Gry	Sltly Cly	Very Stiff	N	Sltly cly, fn snd mix.
Drill to 69.0'																	
SS#21	28	69.0	71.0	20 26				2.0 2.0	21	1144	69.0	79.0	Gry	Sndy Cly	Very Stiff	N	Heavy snd mix.
Drill to 74.0'																	
SS#22	29	74.0	74.2	100 0	0			0.2 0.2		1145			Blue	Rock	Very Dence	N	On a rock. Bagged. No jar.
Drill to 69.0'																	Rock from 74.2' to 77.0'
SS#23	30	79.0	81.0	26 30				2.0 2.0	22	1146	79.0		Gry	Sltly Cly	Very Stiff	N	Heavy snd mix.
Drill to 82.0'																	
SS#24	31	83.0	84.5	18 41				1.5 2.0	23	1147			Gry	Sltly Cly	Hard	N	Hit rock at 84.5'.

