



CHA CLOUGH, HARBOUR & ASSOCIATES LLP
 PROJECT NUMBER: 216.07 February 1996
 LOCATION: Station 6+55 Offset: 6m R
 CLIENT: VDOT
 CONTRACTOR: Northeast Diamond Drilling
 DRILLER: T.W. INSPECTOR: T. Wiles
 START DATE: 2/22/96 FINISH DATE: 2/27/96
 SURFACE ELEV: 213.60m CHECKED BY: W. Harris

Bennington-Hoosick D.P.J. 0146(1)
 SUBSURFACE LOG
 HOLE NUMBER: B-464
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 DRILL FLUID: Water DRILLING METHOD: F.J.C.
 WATER LEVEL OBSERVATIONS DURING DRILLING: DATE: 2/27/96 TIME: 17:45 WATER DEPTH: .30m CASING BOTTOM: 4.2m HOLE BOTTOM: 5.2m

SAMP. NO.	DEPTH (m)	RECOVERY	Blows per 30cm on Split Spoon Sampler	DIAGRAMS	DESCRIPTION AND CLASSIFICATION	ELEVATION (m)	Remarks on Character of Drilling, water return, etc.	WATER LEVELS AND/OR WELL DATA
S1	.5m	52m	3-1-3-5	4	SILT, #116 f.m. sand, #116 organic, brown, soft, moist (U-G) (ITLL)	203.5	B.G.F. elevation 213.5m	
S2	.5m	55m	6-9-6-8	5	Silty CLAY, trace f.m.c. sand, brown, soft, moist (U-G) (ITLL)	203		
S3	.5m	60m	3-1-4-6	6	Silty CLAY, #116 f.m.c. sand, trace f. gravel, brown, stiff, moist (U-G) (ITLL)	202.5		
S4	.5m	6m	4-7-8-10	8	becomes m. stiff (U-G) (ITLL)	202		
S5	.5m	66m	1-16-8-24	14	Similar soils (U-G) (ITLL)	201.5	Laboratory AASHTO classification performed on S4, LL=29, PL=8, PH=	
S6	.5m	71m	45-39-8-56	18	becomes hard (U-G) (ITLL)	201		
S7	.5m	76m	2-26-34-23	20	becomes v. hard (U-G) (ITLL)	200.5		
S8	.5m	81m	8-37-64-66	24	Silty CLAY, trace f.m.c. sand, trace f.m. gravel, brown, hard, moist (U-G) (ITLL)	200		
S9	.5m	86m	16-22-40-52	28	becomes v. hard (U-G) (ITLL)	199.5		
S10	.5m	91m	29-67-80-85	32	becomes gray at 7.7m (U-G) (ITLL)	199		
S11	.5m	96m	22-54-60-77	36	Similar soils (U-G) (ITLL)	198.5		
S12	.5m	101m	2-37-80-80	40	Silty CLAY, trace f.m.c. sand, brown/gray, v. hard, moist (U-G) (ITLL)	198	Laboratory AASHTO classification performed on S2, LL=44, PL=20, PH=24	
S13	.5m	106m	28-49-57-96	44	Similar soils (U-G) (ITLL)	197.5		
S14	.5m	111m	16/3m	R	No Recovery	197		
S15	.5m	116m	100/0.0	R	No Recovery	196.5		
S16	.5m	121m		R	No Recovery	196		
S17	.5m	126m		R	No Recovery	195.5		
S18	.5m	131m		R	No Recovery	195		
S19	.5m	136m		R	No Recovery	194.5		
S20	.5m	141m		R	No Recovery	194		
S21	.5m	146m		R	No Recovery	193.5		
S22	.5m	151m		R	No Recovery	193		
S23	.5m	156m		R	No Recovery	192.5		
S24	.5m	161m		R	No Recovery	192		
S25	.5m	166m		R	No Recovery	191.5		
S26	.5m	171m		R	No Recovery	191		
S27	.5m	176m		R	No Recovery	190.5		
S28	.5m	181m		R	No Recovery	190		
S29	.5m	186m		R	No Recovery	189.5		
S30	.5m	191m		R	No Recovery	189		
S31	.5m	196m		R	No Recovery	188.5		
S32	.5m	201m		R	No Recovery	188		
S33	.5m	206m		R	No Recovery	187.5		
S34	.5m	211m		R	No Recovery	187		
S35	.5m	216m		R	No Recovery	186.5		
S36	.5m	221m		R	No Recovery	186		
S37	.5m	226m		R	No Recovery	185.5		
S38	.5m	231m		R	No Recovery	185		
S39	.5m	236m		R	No Recovery	184.5		
S40	.5m	241m		R	No Recovery	184		
S41	.5m	246m		R	No Recovery	183.5		
S42	.5m	251m		R	No Recovery	183		
S43	.5m	256m		R	No Recovery	182.5		
S44	.5m	261m		R	No Recovery	182		
S45	.5m	266m		R	No Recovery	181.5		
S46	.5m	271m		R	No Recovery	181		
S47	.5m	276m		R	No Recovery	180.5		
S48	.5m	281m		R	No Recovery	180		
S49	.5m	286m		R	No Recovery	179.5		
S50	.5m	291m		R	No Recovery	179		
S51	.5m	296m		R	No Recovery	178.5		
S52	.5m	301m		R	No Recovery	178		
S53	.5m	306m		R	No Recovery	177.5		
S54	.5m	311m		R	No Recovery	177		
S55	.5m	316m		R	No Recovery	176.5		
S56	.5m	321m		R	No Recovery	176		
S57	.5m	326m		R	No Recovery	175.5		
S58	.5m	331m		R	No Recovery	175		
S59	.5m	336m		R	No Recovery	174.5		
S60	.5m	341m		R	No Recovery	174		
S61	.5m	346m		R	No Recovery	173.5		
S62	.5m	351m		R	No Recovery	173		
S63	.5m	356m		R	No Recovery	172.5		
S64	.5m	361m		R	No Recovery	172		
S65	.5m	366m		R	No Recovery	171.5		
S66	.5m	371m		R	No Recovery	171		
S67	.5m	376m		R	No Recovery	170.5		
S68	.5m	381m		R	No Recovery	170		
S69	.5m	386m		R	No Recovery	169.5		
S70	.5m	391m		R	No Recovery	169		
S71	.5m	396m		R	No Recovery	168.5		
S72	.5m	401m		R	No Recovery	168		
S73	.5m	406m		R	No Recovery	167.5		
S74	.5m	411m		R	No Recovery	167		
S75	.5m	416m		R	No Recovery	166.5		
S76	.5m	421m		R	No Recovery	166		
S77	.5m	426m		R	No Recovery	165.5		
S78	.5m	431m		R	No Recovery	165		
S79	.5m	436m		R	No Recovery	164.5		
S80	.5m	441m		R	No Recovery	164		
S81	.5m	446m		R	No Recovery	163.5		
S82	.5m	451m		R	No Recovery	163		
S83	.5m	456m		R	No Recovery	162.5		
S84	.5m	461m		R	No Recovery	162		
S85	.5m	466m		R	No Recovery	161.5		
S86	.5m	471m		R	No Recovery	161		
S87	.5m	476m		R	No Recovery	160.5		
S88	.5m	481m		R	No Recovery	160		
S89	.5m	486m		R	No Recovery	159.5		
S90	.5m	491m		R	No Recovery	159		
S91	.5m	496m		R	No Recovery	158.5		
S92	.5m	501m		R	No Recovery	158		
S93	.5m	506m		R	No Recovery	157.5		
S94	.5m	511m		R	No Recovery	157		
S95	.5m	516m		R	No Recovery	156.5		
S96	.5m	521m		R	No Recovery	156		
S97	.5m	526m		R	No Recovery	155.5		
S98	.5m	531m		R	No Recovery	155		
S99	.5m	536m		R	No Recovery	154.5		
S100	.5m	541m		R	No Recovery	154		
S101	.5m	546m		R	No Recovery	153.5		
S102	.5m	551m		R	No Recovery	153		
S103	.5m	556m		R	No Recovery	152.5		
S104	.5m	561m		R	No Recovery	152		
S105	.5m	566m		R	No Recovery	151.5		
S106	.5m	571m		R	No Recovery	151		
S107	.5m	576m		R	No Recovery	150.5		
S108	.5m	581m		R	No Recovery	150		
S109	.5m	586m		R	No Recovery	149.5		
S110	.5m	591m		R	No Recovery	149		
S111	.5m	596m		R	No Recovery	148.5		
S112	.5m	601m		R	No Recovery	148		
S113	.5m	606m		R	No Recovery	147.5		
S114	.5m	611m		R	No Recovery	147		
S115	.5m	616m		R	No Recovery	146.5		
S116	.5m	621m		R	No Recovery	146		
S117	.5m	626m		R	No Recovery	145.5		
S118	.5m	631m		R	No Recovery	145		
S119	.5m	636m		R	No Recovery	144.5		
S120	.5m	641m		R	No Recovery	144		
S121	.5m	646m		R	No Recovery	143.5		
S122	.5m	651m		R	No Recovery	143		
S123	.5m	656m		R	No Recovery	142.5		
S124	.5m	661m		R	No Recovery	142		
S125	.5m	666m		R	No Recovery	141.5		
S126	.5m	671m		R	No Recovery	141		
S127	.5m	676m		R	No Recovery	140.5		
S128	.5m	681m		R	No Recovery	140		
S129	.5m	686m		R	No Recovery	139.5		
S130	.5m	691m		R	No Recovery	139		
S131	.5m	696m		R	No Recovery	138.5		
S132	.5m	701m		R	No Recovery	138		
S133	.5m	706m		R	No Recovery	137.5		
S134	.5m	711m		R	No Recovery	137		
S135	.5m	716m		R	No Recovery	136.5		
S136	.5m	721m		R	No Recovery	136		
S137	.5m	726m		R	No Recovery	135.5		
S138	.5m	731m		R	No Recovery	135		
S139	.5m	736m		R	No Recovery	134.5		
S140	.5m	741m		R	No Recovery	134		
S141	.5m	746m		R	No Recovery	133.5		
S142	.5m	751m		R	No Recovery	133		
S143	.5m	756m		R	No Recovery	132.5		
S144	.5m	761m		R	No Recovery	132		
S145	.5m	766m		R	No Recovery	131.5		
S146	.5m	771m		R	No Recovery	131		
S147	.5m	776m		R	No Recovery	130.5		
S148	.5m	781m		R	No Recovery	130		
S149	.5m	786m		R	No Recovery	129.5		
S150	.5m	791m		R	No Recovery	129		
S151	.5m	796m		R	No Recovery	128.5		
S152	.5m	801m		R	No Recovery	128		
S153	.5m	806m		R	No Recovery	127.5		
S154	.5m	811m		R	No Recovery	127		
S155	.5m	816m		R	No Recovery	126.5		
S156	.5m	821m		R	No Recovery	126		
S157	.5m	826m		R	No Recovery	125.5		
S158	.5m	831m		R	No Recovery	125		
S159	.5m	836m		R	No Recovery	124.5		
S160	.5m	841m		R	No Recovery	124		
S161	.5m	846m		R	No Recovery	123.5		
S162	.5m	851m		R	No Recovery	123		
S163	.5m	856m		R	No Recovery	122.5		
S164	.5m	861m		R	No Recovery	122		
S165	.5m	866m		R	No Recovery	121.5		
S166	.5m	871m		R	No Recovery	121		
S167	.5m	876m		R	No Recovery	120.5		
S168	.5m	881m		R	No Recovery	120		
S169	.5m	886m		R	No Recovery	119.5		
S170	.5m	891m		R	No Recovery	119		
S171	.5m	896m		R	No Recovery	118.5		
S172	.5m	901m		R	No Recovery	118		
S173	.5m	906m		R	No Recovery	117.5		
S174	.5m	911m		R	No Recovery	117		
S175	.5m	916m		R	No Recovery	116.5		
S176	.5m	921m		R	No Recovery	116		
S177	.5m	926m		R	No Recovery	115.5		
S178	.5m	931m		R	No Recovery	115		
S179	.5m	936m		R	No Recovery	114.5		
S180	.5m	941m		R	No Recovery	114		
S181	.5m	946m		R	No Recovery	113.5		
S182	.5m	951m		R	No Recovery	113		
S183	.5m	956m		R	No Recovery	112.5		
S184	.5m	961m		R	No Recovery	112		
S185	.5m	966m		R	No Recovery	111.5		
S186	.5m	971m		R	No Recovery	111		
S187	.5m	976m		R	No Recovery	110.5		
S188	.5m	981m		R	No Recovery	110		
S189	.5m	986m		R	No Recovery	109.5		
S190	.							