

PROJECT: FRA-70-14.05 PROJECT 4B		DRILLING FIRM / OPERATOR: RII / S.B.		DRILL RIG: CME 750X (SN 310218)		STATION / OFFSET: 201+68.14 / 47.8" RT		EXPLORATION ID B-033-1-15											
TYPE: ROADWAY		SAMPLING FIRM / LOGGER: RII / C.D.		HAMMER: CME AUTOMATIC		ALIGNMENT: BL CONST. I-70 EB		PAGE 1 OF 1											
PID: 96053 BR ID: NA		DRILLING METHOD: 3.25" - HSA		CALIBRATION DATE: 10/20/14		ELEVATION: 729.7 (MSL) EOB: 60.0 ft.													
START: 10/12/15 END: 10/12/15		SAMPLING METHOD: SPT		ENERGY RATIO (%): 85.7		COORD: 39.953222, -82.995459													
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
									GR	CS	FS	SI	CL	LL	PL	PI			
0.3' - TOPSOIL (3.0") DENSE TO VERY DENSE, BROWN GRAVEL AND SAND, TRACE SILT, TRACE CLAY, DAMP.		729.4	1																
			2																
			3																
			4	9	15	51	100	SS-1	-	-	-	-	-	-	-	-	4	A-1-b (V)	
			5	21															
			6																
			7																
			8																
-INTRODUCED MUD @ 8.5'			9	8	16	50	100	SS-2	-	-	-	-	-	-	-	-	12	A-1-b (V)	
			10	19															
		717.6	11																
			12	11	17	53	100	SS-3A	-	28	31	28	10	3	NP	NP	NP	14	A-1-b (0)
			13	20				SS-3B	-	-	-	-	-	-	-	-	21	A-3a (V)	
VERY DENSE, BROWN TO GRAY COARSE AND FINE SAND, SOME FINE GRAVEL, LITTLE SILT, TRACE CLAY, MOIST.			14	10	18	63	100	SS-4	-	-	-	-	-	-	-	-	13	A-3a (V)	
			15	26															
			16																
			17	5	16	53	100	SS-5	-	26	20	33	16	5	NP	NP	NP	14	A-3a (0)
			18	21															
VERY DENSE, GRAY GRAVEL AND SAND, TRACE SILT, TRACE CLAY, MOIST.		711.7	19	12	21	73	100	SS-6	-	-	-	-	-	-	-	-	10	A-1-b (V)	
			20	30															
HARD, GRAY SANDY SILT, LITTLE CLAY, LITTLE FINE GRAVEL, DAMP.		709.2	21	20	50/5"	-	100	SS-7	4.5+	13	13	22	32	20	23	14	9	11	A-4a (3)
			22																
			23																
			24	11	42	-	100	SS-8	4.5+	-	-	-	-	-	-	-	12	A-4a (V)	
			25	50/4"															
VERY DENSE, GRAY FINE SAND, TRACE SILT, TRACE CLAY, TRACE FINE GRAVEL, WET.		704.2	26																
			27	6	22	91	100	SS-9	-	3	10	78	6	3	NP	NP	NP	18	A-3 (0)
			28	42															
			29	18	24	84	100	SS-10	-	-	-	-	-	-	-	-	21	A-3 (V)	
			30	35															
			31																
			32																
HARD, GRAY SANDY SILT, LITTLE CLAY, TRACE FINE GRAVEL, DAMP.		697.7	33																
			34	20	40	-	100	SS-11	4.5+	6	8	35	33	18	17	14	3	12	A-4a (3)
			35	50/5"															
			36																
			37																
DENSE, GRAY COARSE AND FINE SAND, LITTLE FINE GRAVEL, TRACE SILT, TRACE CLAY, MOIST. -HEAVING SANDS ENCOUNTERED @ 38.5'		692.7	38																
			39	8	25	90	83	SS-12	-	-	-	-	-	-	-	-	17	A-3a (V)	
			40	38															
			41																
			42																
VERY DENSE, GRAY GRAVEL, "AND" COARSE TO FINE SAND, TRACE SILT, TRACE CLAY, MOIST. -HEAVING SANDS ENCOUNTERED @ 43.5'		687.7	43																
			44	9	28	99	100	SS-13	-	53	21	15	8	3	NP	NP	NP	12	A-1-a (0)
			45	41															
			46																
			47																
DENSE, GRAY COARSE AND FINE SAND, LITTLE FINE GRAVEL, TRACE SILT, TRACE CLAY, MOIST.		682.7	48																
			49	8	11	40	100	SS-14	-	-	-	-	-	-	-	-	8	A-1-b (V)	
			50	17															
			51																
			52																
DENSE, GRAY GRAVEL AND SAND, TRACE CLAY, TRACE SILT, WET.		677.7	53																
			54	9	12	46	100	SS-15	-	-	-	-	-	-	-	-	23	A-1-b (V)	
			55	20															
			56																
			57																
			58																
-HEAVING SANDS ENCOUNTERED THROUGHOUT		669.7	59	7	10	39	100	SS-16	-	1	52	43	1	3	NP	NP	NP	21	A-1-b (0)
				17															
NOTES: GROUNDWATER ENCOUNTERED INITIALLY @ 8.5'			EOB																
ABANDONMENT METHODS, MATERIALS, QUANTITIES: COMPACTED WITH THE AUGER			100 LBS BENTONITE CHIPS AND SOIL CUTTINGS																