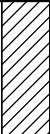











































PROJECT: <u>WIL-127-12.43/15.09</u>	DRILLING FIRM / OPERATOR: <u>DLZ / VAUL</u>	DRILL RIG: <u>DLZ CME 45 TRACK</u>	STATION / OFFSET: <u>655+92, 43' RT.</u>	EXPLORATION ID B-001-0-24
TYPE: <u>CULVERT</u>	SAMPLING FIRM / LOGGER: <u>DLZ / KKC</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>US 127 CL</u>	
PID: <u>114748</u> SFN: <u>1806949/1861325</u>	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>2/1/24</u>	ELEVATION: <u>781.4 (NAVD88)</u> EOB: <u>30.0 ft.</u>	PAGE 1 OF 1
START: <u>7/3/24</u> END: <u>7/3/24</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89.2</u>	LAT / LONG: <u>41.566763, -84.461509</u>	

[illegible]

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 8 CF BENTONITE GROUT

PROJECT: WIL-127-12.43/15.09	DRILLING FIRM / OPERATOR: DLZ / VAUL	DRILL RIG: DLZ CME 45 TRACK	STATION / OFFSET: 656+65, 17' LT.	EXPLORATION ID B-002-0-24
TYPE: CULVERT	SAMPLING FIRM / LOGGER: DLZ / KKC	HAMMER: CME AUTOMATIC	ALIGNMENT: US 127 CL	
PID: 114748 SFN: 1806949/1861325	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 2/1/24	ELEVATION: 783.6 (NAVD88) EOB: 30.0 ft.	PAGE 1 OF 1
START: 7/3/24 END: 7/3/24	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89.2	LAT / LONG: 41.567021, -84.461441	

MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED	
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM STIFF, BROWN, SILT AND CLAY , SOME SAND, SOME GRAVEL, SLIGHTLY ORGANICS, MOIST		783.6	1		3																	
		780.1	2		2	7	39	SS-1	2.00	23	11	22	22	22	27	16	11	20	A-6a (2)	-		
			3		3																	
			4		2	4	72	SS-2	1.25	26	6	32	33	3	24	15	9	21	A-4a (0)	-		
SOFT TO MEDIUM STIFF, BROWN, SANDY SILT , SOME GRAVEL, TRACE CLAY, WET Q _u = 8.9 PSI = 1,280 PSF		777.6	5		1																	
		775.1	6		2																	
VERY STIFF TO HARD, BROWN, SILT AND CLAY , "AND" SAND, TRACE GRAVEL, DAMP			772.6	7		8	25	83	SS-3	4.50	3	9	31	26	31	34	20	14	16	A-6a (6)	-	
			8		9																	
VERY STIFF TO HARD, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP		770.1	9		3	27	83	SS-4	4.50	-	-	-	-	-	-	-	-	15	A-4a (V)	-		
		772.6	10		8																	
			11		2																	
			12		5	21	72	SS-5	4.50	-	-	-	-	-	-	-	-	-	14	A-6a (V)	-	
VERY STIFF TO HARD, GRAY, SILT AND CLAY , SOME SAND, TRACE GRAVEL, DAMP		770.1	13		9																	
		767.6	14		1	12	83	SS-6	3.25	5	6	9	22	58	30	16	14	16	A-6a (10)	-		
			15		3																	
			16		5																	
HARD, GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP		765.1	17		3	45	83	SS-7	-	-	-	-	-	-	-	-	-	12	A-4a (V)	-		
		760.1	18		11																	
			19		19																	
			20		2	27	89	SS-8	4.50	-	-	-	-	-	-	-	-	-	13	A-6a (V)	-	
VERY STIFF TO HARD, GRAY, SILT AND CLAY , SOME SAND, DAMP		760.1	21		7																	
		760.1	22		11																	
			23		9	42	78	SS-9	-	2	5	16	25	52	26	15	11	11	A-6a (8)	-		
@21': TRACE GRAVEL			753.6	24		13																
		760.1	25		15																	
			26		8	73	89	SS-10	-	-	-	-	-	-	-	-	-	-	9	A-4a (V)	-	
			27		20																	
HARD, GRAY, SANDY SILT , LITTLE CLAY, DAMP		753.6	28		27	129	100	SS-11	-	-	-	-	-	-	-	-	-	6	A-4a (V)	-		
		753.6	29		43																	
			30		44																	
			31		26	109	83	SS-12	-	-	-	-	-	-	-	-	-	-	6	A-4a (V)	-	
			32		37																	
			33		36																	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 8 CF BENTONITE GROUT

PROJECT: <u>WIL-127-12.43/15.09</u>	DRILLING FIRM / OPERATOR: <u>DLZ / VAUL</u>	DRILL RIG: <u>DLZ CME 45 TRACK</u>	STATION / OFFSET: <u>796+72, 7' RT.</u>	EXPLORATION ID B-003-0-24
TYPE: <u>CULVERT</u>	SAMPLING FIRM / LOGGER: <u>DLZ / KKC</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>US 127 CL</u>	
PID: <u>114748</u> SFN: <u>1806949/1861325</u>	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>2/1/24</u>	ELEVATION: <u>787.6 (NAVD88) EOB: 29.8 ft.</u>	PAGE 1 OF 1
START: <u>7/2/24</u> END: <u>7/2/24</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89.2</u>	LAT / LONG: <u>41.593851, -84.428539</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO ₄ ppm	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 8 INCHES	787.6																		
AGGREGATE BASE - 1 INCH	786.8	1	2	4	67	SS-1	-	-	-	-	-	-	-	-	12	A-3a (V)	-		
VERY LOOSE, BROWN, COARSE AND FINE SAND , SOME CLAY, TRACE GRAVEL, TRACE SILT, MOIST	784.1	2	2																
		3																	
STIFF TO VERY STIFF, BROWN, SILT AND CLAY , LITTLE GRAVEL, LITTLE SAND, MOIST Qu = 22.7 PSI = 3,270 PSF		4	1	6	56	SS-2	3.50	-	-	-	-	-	-	-	16	A-6a (V)	-		
		5	2																
@6": "AND" SAND, TRACE GRAVEL		6	1																
		7	1	4	72	SS-3	1.75	1	3	39	38	19	27	16	11	21	A-6a (5)	-	
		8	2																
MEDIUM DENSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, MOIST	779.1	9	1	12	67	SS-4	-	-	-	-	-	-	-	-	20	A-3a (V)	-		
		10	3																
	776.6	11	5																
MEDIUM DENSE, GRAY, FINE SAND , TRACE SILT, TRACE CLAY, MOIST		12	3	18	61	SS-5	-	-	-	-	-	-	-	-	21	A-3 (V)	-		
		13	7																
	774.1	14	5																
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY , TRACE SAND, MOIST		15	2	7	72	SS-6	1.25	-	-	-	-	-	-	-	22	A-6a (V)	-		
		16	2																
	771.6	17	3																
MEDIUM STIFF TO STIFF, GRAY, SILTY CLAY , TRACE SAND, TRACE GRAVEL, MOIST Qu = 18.2 PSI = 2,620 PSF		18	1	7	89	SS-7	1.75	1	1	4	26	68	37	20	17	23	A-6b (11)	-	
		19	2																
	769.1	20	3	13	100	SS-8	3.75	-	-	-	-	-	-	-	10	A-6b (V)	-		
STIFF TO VERY STIFF, GRAY, SILTY CLAY , SOME SAND, TRACE GRAVEL, MOIST		21	6																
	766.6	22	5	56	78	SS-9	-	-	-	-	-	-	-	-	16	A-3a (V)	-		
VERY DENSE, GRAY, COARSE AND FINE SAND , SOME CLAY, SOME GRAVEL, TRACE SILT, MOIST		23	12																
	764.1	24	26																
DENSE, GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, MOIST		25	11	42	78	SS-10	-	7	4	35	44	10	NP	NP	NP	19	A-4a (4)	-	
		26	13																
	761.6	27	15																
HARD, GRAY, SILT AND CLAY , TRACE SAND, MOIST		28	9	49	89	SS-11	-	-	-	-	-	-	-	-	17	A-6a (V)	-		
		29	13																
	759.1																		
HARD, GRAY, SANDY SILT , LITTLE CLAY, TRACE CLAY, MOIST																			
	757.8																		

NOTES: NONE

PROJECT: <u>WIL-127-12.43/15.09</u>	DRILLING FIRM / OPERATOR: <u>DLZ / VAUL</u>	DRILL RIG: <u>DLZ CME 45 TRACK</u>	STATION / OFFSET: <u>796+95, 12' LT.</u>	EXPLORATION ID B-004-0-24
TYPE: <u>CULVERT</u>	SAMPLING FIRM / LOGGER: <u>DLZ / KKC</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>US 127 CL</u>	
PID: <u>114748</u> SFN: <u>1806949/1861325</u>	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>2/1/24</u>	ELEVATION: <u>787.1 (NAVD88) EOB: 29.8 ft.</u>	PAGE 1 OF 1
START: <u>7/2/24</u> END: <u>7/2/24</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89.2</u>	LAT / LONG: <u>41.593927, -84.428562</u>	

MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	SO4 ppm	HOLE SEALED
										GR	CS	FS	SI	CL	LL	PL	PI	WC			
ASPHALT - 9 INCHES		787.1																			
AGGREGATE BASE - 3 INCHES		786.3																			
MEDIUM STIFF TO STIFF, BROWN, SILTY CLAY , LITTLE SAND, TRACE GRAVEL, MOIST		786.1	1	2	2	7	61	SS-1	3.50	-	-	-	-	-	-	-	-	15	A-6b (V)	-	
			2	3																	
		783.6	3																		
VERY LOOSE, BROWN, COARSE AND FINE SAND , LITTLE CLAY, TRACE GRAVEL, TRACE SILT, MOIST			4	1	1	4	67	SS-2	-	-	-	-	-	-	-	-	-	18	A-3a (V)	-	
			5	2																	
@6": Loose			6	3																	
			7	1	3	6	83	SS-3	-	-	-	-	-	-	-	-	-	17	A-3a (V)	-	
		778.6	8																		
MEDIUM DENSE, BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, MOIST			9	2																	
			10	3	5	12	72	SS-4	-	3	2	49	41	5	NP	NP	NP	19	A-4a (2)	-	
		776.1	11																		
MEDIUM STIFF TO STIFF, GRAY, SANDY SILT , "AND"CLAY, WET			12	3	5	13	72	SS-5	1.00	0	2	6	41	51	23	20	3	21	A-4a (8)	-	
			13		4																
@13.5' LITTLE CLAY, Qu =12.6 PSI =1815 PSF			14	1																	
			15	2	3	7	83	SS-6	1.75	-	-	-	-	-	-	-	-	22	A-4a (V)	-	
			16																		
@16": LITTLE GRAVEL, DAMP			17	2	3	9	83	SS-7	2.00	12	9	27	40	12	19	14	5	11	A-4a (3)	-	
		768.6	18		3																
DENSE, GRAY, COARSE AND FINE SAND , LITTLE CLAY, LITTLE SILT, MOIST			19	3	11	33	94	SS-8	-	-	-	-	-	-	-	-	-	16	A-3a (V)	-	
		766.1	20		11																
VERY DENSE, GRAY, FINE SAND , TRACE SILT, TRACE CLAY, MOIST			21	17																	
			22	32	39	106	89	SS-9	-	-	-	-	-	-	-	-	-	17	A-3 (V)	-	
			23																		
			24	22																	
		761.1	25	31	40	106	83	SS-10	-	-	-	-	-	-	-	-	-	20	A-3 (V)	-	
MEDIUM DENSE, GRAY, FINE SAND , TRACE SILT, TRACE CLAY, MOIST		759.9	26	15																	
			27	9		27	61	SS-11A	-	-	-	-	-	-	-	-	-	23	A-3 (V)	-	
VERY STIFF TO HARD, GRAY, SILT AND CLAY , TRACE SAND, MOIST		758.6	28					SS-11B	4.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
HARD, GRAY, SANDY SILT , LITTLE CLAY, MOIST		757.3	29	14	38	-	87	SS-12	4.50	-	-	-	-	-	-	-	-	11	A-4a (V)	-	
				50/3"																	

NOTES: NONE