

PROJECT: WAS-77-9.58				DRILLING FIRM / OPERATOR: ODOT / CAREY				DRILL RIG: CME 55 TRUCK				STATION / OFFSET: 506+25, 58' RT.						EXPLORATION ID							
TYPE: CULVERT				SAMPLING FIRM / LOGGER: ODOT / SPROUSE				HAMMER: CME AUTOMATIC				ALIGNMENT: CL IR 77						B-001-0-22							
PID: 115420 SFN: 1988298 (P)				DRILLING METHOD: 3.25" HSA				CALIBRATION DATE: 4/18/22				ELEVATION: 937.6 (ft) EOB: 97.5 ft.						PAGE							
START: 11/22/22 END: 11/28/22				SAMPLING METHOD: SPT				ENERGY RATIO (%): 87				LAT / LONG: 39.533076, -81.444866						1 OF 2							
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS			SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL			
			937.6									GR	CS	FS	SI	CL	LL	PL	PI	WC					
ASPHALT (3"), CONCRETE (9"), ASPHALT (3.5") & CONCRETE (7.5")			935.7	1																					
VERY STIFF, REDDISH BROWN AND GRAY, SILT AND CLAY, SOME SAND, LITTLE STONE FRAGMENTS, DAMP			934.1	2			5	-	75	SS-1	3.25	13	6	15	37	29	33	21	12	14	A-6a (7)				
VERY STIFF, RED AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP				3																					
@6.0'; STIFF				4			5	16	61	SS-2	2.50	-	-	-	-	-	-	-	-	10	A-4a (V)				
				5																					
				6																					
				7			11	20	44	SS-3	1.75	-	-	-	-	-	-	-	-	8	A-4a (V)				
				8																					
				9			1	16	56	SS-4	1.25	54	3	2	26	15	31	21	10	10	A-4a (1)				
			926.6	10																					
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, DAMP				11			5																		
				12			9	27	44	SS-5	4.25	1	2	12	45	40	35	21	14	19	A-6a (10)				
			924.1	13																					
VERY STIFF, REDDISH BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP				14			3	10	39	SS-6	3.25	-	-	-	-	-	-	-	-	12	A-4a (V)				
				15																					
				16			8																		
				17			19	53	39	SS-7	2.00	42	4	18	21	15	25	17	8	12	A-4a (0)				
				18																					
				19			7	17	22	SS-8	3.00	-	-	-	-	-	-	-	-	11	A-4a (V)				
				20																					
				21			4																		
				22			7	19	33	SS-9	3.00	-	-	-	-	-	-	-	-	16	A-4a (V)				
				23																					
				24			7	32	33	SS-10	3.75	-	-	-	-	-	-	-	-	11	A-4a (V)				
			911.6	25																					
VERY STIFF, RED, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP				26			7																		
@28.5'; HARD				27			8	27	44	SS-11	4.00	45	4	4	25	22	30	19	11	13	A-6a (3)				
				28																					
				29			7	29	50	SS-12	4.50	-	-	-	-	-	-	-	-	12	A-6a (V)				
				30			10																		
				31																					
				32			6	29	64	SS-13	3.50	-	-	-	-	-	-	-	-	10	A-6a (V)				
				33																					
				34			2	23	44	SS-14	3.50	-	-	-	-	-	-	-	-	15	A-6a (V)				
				35																					
				36																					
VERY STIFF, REDDISH BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP				37			6	35	33	SS-15	3.50	-	-	-	-	-	-	-	7	A-4a (V)					
				38																					
				39			3	30	56	SS-16	4.50	45	7	9	26	13	28	19	9	10	A-4a (1)				
				40																					
				41																					
				42			5	33	56	SS-17	-	75	1	1	11	12	34	20	14	17	A-2-6 (0)				
@43.5'; MEDIUM DENSE, MOIST				43																					
@46.0'; DENSE				44			3	29	58	SS-18	-	-	-	-	-	-	-	-	13	A-2-6 (V)					
				45																					
				46			7	42	44	SS-19	-	-	-	-	-	-	-	-	-	10	A-2-6 (V)				
				47			13																		
				48																					
VERY DENSE, GRAY, STONE FRAGMENTS, LITTLE SAND, TRACE SILT, TRACE CLAY, (NOT ENOUGH MATERIAL TO TEST), DRY			889.1	49			44	65	22	SS-20	-	-	-	-	-	-	-	-	2	A-1-a (V)					
				50																					
MEDIUM DENSE, RED AND GRAY, STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP			886.6	51			2																		
				52			8	29	39	SS-21	-	-	-	-	-	-	-	-	11	A-2-4 (V)					
				53																					
				54			3	29	44	SS-22	-	56	4	11	18	11	27	19	8	14	A-2-4 (0)				
				55																					
				56																					
HARD, RED AND BROWN, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP			881.6	57			18	66	67	SS-23	4.5+	-	-	-	-	-	-	-	9	A-6a (V)					
				58																					
				59			7	39	56	SS-24	4.5+	55	2	7	17	19	33	21	12	15	A-6a (1)				

PID: 115420	SFN: 1988298 (P)	PROJECT: WAS-77-9.58	STATION / OFFSET: 506+25, 58' RT.					START: 11/22/22	END: 11/28/22	PG 2 OF 2	B-001-0-22											
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
HARD, RED AND BROWN, SILT AND CLAY , "AND" STONE FRAGMENTS, TRACE SAND, DAMP (continued) @61.0'; VERY STIFF			877.6		61	6	11 15	38	61	SS-25	3.25	-	-	-	-	-	-	-	-	13	A-6a (V)	
					62																	
					63																	
					64																	
@63.5'; HARD			869.1		64	6	18 16	49	61	SS-26	4.50	-	-	-	-	-	-	-	-	11	A-6a (V)	
					65																	
					66																	
					67																	
VERY DENSE, RED AND BROWN, STONE FRAGMENTS WITH SAND, SILT, AND CLAY , DAMP @71.0'; RED			864.1		67	7	12 18	43	44	SS-27	4.5+	-	-	-	-	-	-	-	-	12	A-6a (V)	
					68																	
					69																	
					70																	
VERY STIFF, RED AND BROWN, SILT AND CLAY , "AND" STONE FRAGMENTS, TRACE SAND, DAMP			864.1		70	5	14 35	71	39	SS-28	-	-	-	-	-	-	-	-	-	9	A-2-6 (V)	
					71																	
					72																	
					73																	
VERY STIFF, RED AND BROWN, SILT AND CLAY , "AND" STONE FRAGMENTS, TRACE SAND, DAMP			859.1		73	4	10 14	35	44	SS-30	4.25	-	-	-	-	-	-	-	-	12	A-6a (V)	
					74																	
					75																	
					76																	
HARD, BROWN AND GRAY, SANDY SILT , SOME STONE FRAGMENTS, LITTLE CLAY, DAMP @81.0'; VERY STIFF			854.1		76	5	12 18	43	50	SS-31	4.5+	51	2	5	24	18	33	22	11	13	A-6a (2)	
					77																	
					78																	
					79																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		79	2	13 20	48	39	SS-32	4.50	-	-	-	-	-	-	-	-	12	A-4a (V)	
					80																	
					81																	
					82																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		82	8	11 13	35	56	SS-33	3.25	28	2	24	28	18	27	19	8	14	A-4a (2)	
					83																	
					84																	
					85																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		85	3	11 15	38	44	SS-34	2.75	39	2	9	27	23	32	20	12	18	A-6a (4)	
					86																	
					87																	
					88																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		87	7	17 28	65	67	SS-35	4.50	-	-	-	-	-	-	-	-	17	A-6a (V)	
					88																	
					89																	
					90																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		89	9	17 21	55	78	SS-36	4.50	-	-	-	-	-	-	-	-	19	A-6a (V)	
					90																	
					91																	
					92																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		92	8	14 26	58	72	SS-37	3.00	28	1	15	32	24	30	19	11	19	A-6a (5)	
					93																	
					94																	
					95																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		94	10	12 25	53	44	SS-38	4.5+	-	-	-	-	-	-	-	-	17	A-6a (V)	
					95																	
					96																	
					97																	
VERY STIFF, REDDISH BROWN AND BROWN, SILT AND CLAY , "AND" STONE FRAGEMENTS, LITTLE SAND, DAMP @86.0'; HARD			840.1		96	11	17 25	61	44	SS-39	4.5+	-	-	-	-	-	-	-	-	15	A-6a (V)	
					97																	

EOB																			
NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.																			
ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS																			

PROJECT: WAS-77-9.58		DRILLING FIRM / OPERATOR: ODOT / MCINTOSH		DRILL RIG: CME 850R TRACKED		STATION / OFFSET: 505+95, 1' LT.		EXPLOSION ID											
TYPE: CULVERT		SAMPLING FIRM / LOGGER: ODOT / LEWIS		HAMMER: CME AUTOMATIC		ALIGNMENT: CL IR 77		B-002-0-22											
PID: 115420 SFN: 1988298 (P)		DRILLING METHOD: 3.75" HSA / NQ2		CALIBRATION DATE: 4/19/21		ELEVATION: 932.4 (ft) EOB: 85.0 ft.		PAGE											
START: 12/6/22 END: 12/7/22		SAMPLING METHOD: SPT / NQ2		ENERGY RATIO (%): 90*		LAT / LONG: 39.532929, -81.445005		1 OF 2											
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
		932.4							GR	CS	FS	SI	CL	LL	PL	PI			
TOPSOIL (5")		932.0																	
VERY STIFF, REDDISH BROWN AND GRAY, SILT AND CLAY, SOME STONE FRAGMENTS, LITTLE SAND, DAMP			1																
			2	5	6	18	72	SS-1	2.50	33	6	8	30	23	33	21	12	12	A-6a (4)
			3		6														
@3.5'; STIFF			4	3	5	15	61	SS-2	2.00	-	-	-	-	-	-	-	16	A-6a (V)	
			5		5														
			6																
			7																
		923.9	8																
STIFF, REDDISH BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP			9	5	4	12	78	SS-3	2.00	42	2	13	25	18	26	16	10	11	A-4a (2)
			10		4														
			11																
			12																
			13																
			14	4	4	14	50	SS-4	2.00	-	-	-	-	-	-	-	14	A-4a (V)	
			15		5														
			16																
			17																
			18																
			19	3	3	11	67	SS-5	2.00	-	-	-	-	-	-	-	21	A-4a (V)	
			20		4														
			21																
			22																
			23																
		908.9	24	5	7	33	83	SS-6	3.50	35	2	8	28	27	34	18	16	18	A-6b (6)
VERY STIFF, REDDISH BROWN AND GRAY, SILTY CLAY, SOME STONE FRAGMENTS, LITTLE SAND, DAMP			25		15														
			26																
			27																
			28																
		904.0	29	8	5	18	50	SS-7	3.00	-	-	-	-	-	-	-	10	A-6b (V)	
			30		7														
			31																
			32																
			33																
			34	4	7	23	78	SS-8	3.00	-	-	-	-	-	-	-	12	A-6b (V)	
			35		8														
			36																
			37																
			38																
		893.9	39	7	14	41	89	SS-9	4.00	46	1	2	26	25	34	19	15	12	A-6a (5)
HARD, RED AND GRAY, SILT AND CLAY, "AND" STONE FRAGMENTS, TRACE SAND, DAMP			40		13														
			41																
			42																
			43																
@43.5'; VERY STIFF			44	7	9	30	83	SS-10	3.50	-	-	-	-	-	-	-	14	A-6a (V)	
			45		11														
			46																
			47																
			48																
			49	10	11	33	78	SS-11	3.00	-	-	-	-	-	-	-	13	A-6a (V)	
			50		11														
			51																
			52	10	12	41	72	SS-12	3.50	-	-	-	-	-	-	-	12	A-6a (V)	
			53		15														
			54	6	6	24	89	SS-13	3.00	47	2	8	27	16	31	18	13	12	A-6a (2)
			55		10														
			56																
			57	13	15	45	78	SS-14	3.50	-	-	-	-	-	-	-	15	A-6a (V)	
			58		15														
@58.5'; BROWN AND RED, SOME STONE FRAGMENTS, LITTLE SAND			59	6	11	35	83	SS-15	3.50	25	3	14	34	24	31	18	13	15	A-6a (6)
					12														

PID: 115420	SFN: 1988298 (P)	PROJECT: WAS-77-9.58	STATION / OFFSET: 505+95, 1' LT.					START: 12/6/22	END: 12/7/22	PG 2 OF 2		B-002-0-22								
MATERIAL DESCRIPTION AND NOTES			ELEV. 872.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
HARD, RED AND GRAY, SILT AND CLAY , "AND" STONE FRAGMENTS, TRACE SAND, DAMP <i>(continued)</i> @61.0'; RED AND BROWN @63.5' - 68.5'; ENCOUNTERED BOULDERS/COBBLES @68.5'; VERY STIFF @71.0'; TRACE SAND			872.4	61	14	80	89	SS-16	4.50	47	4	7	27	15	33	20	13	12	A-6a (2)	
				62	24 29															
				63																
				64																
				65																
				66	0		78	NQ2-1											CORE	
				67																
				68																
				69	8 10 11	32	67	SS-17	2.50	-	-	-	-	-	-	-	-	14	A-6a (V)	
				70																
				71	18															
				72	17 25	63	89	SS-18	3.00	37	2	5	31	25	35	20	15	17	A-6a (6)	
				73																
				74	13 15 23	57	89	SS-19	3.50	-	-	-	-	-	-	-	-	16	A-6a (V)	
				75																
				76	18															
				77	22 26	72	83	SS-20	3.50	-	-	-	-	-	-	-	-	21	A-6a (V)	
				VERY STIFF, RED AND BROWN, SILTY CLAY , SOME STONE FRAGMENTS, TRACE SAND, DAMP @83.5'; MOIST			853.9	78												
79	11 12 17	44	89					SS-21	3.50	26	1	8	30	35	37	20	17	18	A-6b (9)	
80																				
81	17																			
82	22 24	69	72					SS-22	3.50	-	-	-	-	-	-	-	-	16	A-6b (V)	
83																				
			847.4	84	10 12 18	45	89	SS-23	3.00	-	-	-	-	-	-	-	21	A-6b (V)		
				85																

NOTES: LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 120 GAL. BENTONITE GROUT

PROJECT: WAS-77-9.58		DRILLING FIRM / OPERATOR: ODOT / CAREY		DRILL RIG: CME 55 TRUCK		STATION / OFFSET: 505+66, 59' LT.				EXPLORATION ID											
TYPE: CULVERT		SAMPLING FIRM / LOGGER: ODOT / SPROUSE		HAMMER: CME AUTOMATIC		ALIGNMENT: CL IR 77				B-003-0-22											
PID: 115420 SFN: 1988298 (P)		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 4/18/22		ELEVATION: 932.4 (ft) EOB: 85.0 ft.				PAGE											
START: 11/29/22 END: 12/1/22		SAMPLING METHOD: SPT		ENERGY RATIO (%): 87		LAT / LONG: 39.532788, -81.445142				1 OF 2											
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
			932.4																		
CONCRETE (8.25"), ASPHALT (2.5") & CONCRETE (8.25")																					
			930.8																		
VERY STIFF, GRAY AND RED, SILT AND CLAY, SOME STONE FRAGMENTS, TRACE SAND, DAMP																					
@3.5'; HARD																					
@6.0'; RED																					
@8.5'; VERY STIFF																					
@11.0'; HARD, "AND" STONE FRAGMENTS																					
@13.5'; VERY STIFF																					

PID: 115420	SFN: 1988298 (P)	PROJECT: WAS-77-9.58	STATION / OFFSET: 505+66, 59' LT.					START: 11/29/22	END: 12/1/22	PG 2 OF 2		B-003-0-22									
MATERIAL DESCRIPTION AND NOTES			ELEV. 872.4	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
HARD, RED, SILT AND CLAY , "AND" STONE FRAGMENTS, TRACE SAND, DAMP (continued)				868.9	61	10	46	67	SS-25	4.00	-	-	-	-	-	-	-	-	14	A-6a (V)	
					62	15 17															
					63																
HARD, RED AND BROWN, SANDY SILT , "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP				858.9	64	4 12 16	40	56	SS-26	4.50	44	5	8	28	15	31	22	9	11	A-4a (2)	
					65																
					66																
					67	11 16 22															
					68																
					69	10 11 17															
					70																
					71																
					72	22 14 14															
					73																
					74																
					75																
@68.5'; VERY STIFF				858.9	76	6 12 17	42	61	SS-31	-	72	1	3	14	10	34	22	12	12	A-2-6 (0)	
					77																
					78																
					79	9 15 20															
					80																
					81																
					82	9 18 24															
					83																
					84	7 14 19															
					85																
					86																
					@71.0' - 71.5'; ENCOUNTERED BOULDERS/COBBLES																
88																					
89																					
90																					
91																					
92																					
93																					
94																					
95																					
96																					
97																					
98																					
DENSE, RED AND GRAY, STONE FRAGMENTS WITH SAND, SILT, AND CLAY , DAMP				847.4	99	7 14 17	45	50	SS-30	-	-	-	-	-	-	-	-	14	A-2-6 (V)		
					100																
					101																
					102																
					103																
					104																
					105																
					106																
					107																
					108																
					109																
					110																
@78.5'; VERY DENSE				847.4	111	6 12 17	42	61	SS-31	-	72	1	3	14	10	34	22	12	12	A-2-6 (0)	
					112																
					113																
					114																
					115																
					116																
					117																
					118																
					119																
					120																
					121																
					122																
@83.5'; DENSE				847.4	123	9 15 20	51	64	SS-32	-	-	-	-	-	-	-	-	13	A-2-6 (V)		
					124																
					125																
					126																
					127																
					128																
					129																
					130																
					131																
					132																
					133																
					134																
@83.5'; DENSE				847.4	135	9 18 24	61	61	SS-33	-	-	-	-	-	-	-	-	14	A-2-6 (V)		
					136																
					137																
					138																
					139																
					140																
					141																
					142																
					143																
					144																
					145																
					146																
@83.5'; DENSE				847.4	147	7 14 19	48	50	SS-34	-	-	-	-	-	-	-	-	13	A-2-6 (V)		
					148																
					149																
					150																
					151																
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NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS

PROJECT: WAS-77-9.58		DRILLING FIRM / OPERATOR: ODOT / MCINTOSH		DRILL RIG: CME 850R TRACKED		STATION / OFFSET: 504+56, 216' LT.				EXPLORATION ID: B-004-0-22									
TYPE: CULVERT		SAMPLING FIRM / LOGGER: ODOT / LEWIS		HAMMER: CME AUTOMATIC		ALIGNMENT: CL IR 77													
PID: 115420 SFN: 1988298 (P)		DRILLING METHOD: 3.75" HSA		CALIBRATION DATE: 4/19/21		ELEVATION: 864.0 (ft) EOB: 30.0 ft.				PAGE 1 OF 1									
START: 12/8/22 END: 12/12/22		SAMPLING METHOD: SPT		ENERGY RATIO (%): 90*		LAT / LONG: 39.532353, -81.445497													
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL
		864.0							GR	CS	FS	SI	CL	LL	PL	PI	WC		
TOPSOIL (2")		863.8																	
STIFF, RED, SILTY CLAY, SOME STONE FRAGMENTS, TRACE SAND, MOIST			1																
			2	3	8	67	SS-1	2.00	30	2	7	28	33	37	19	18	21	A-6b (8)	
			3	1															
			4	2	8	44	SS-2	1.50	-	-	-	-	-	-	-	-	20	A-6b (V)	
			5	2															
@4.5'; MEDIUM STIFF			6	3															
@6.0'; DAMP			7	3	9	61	SS-4	1.00	-	-	-	-	-	-	-	-	17	A-6b (V)	
@7.5'; LITTLE STONE FRAGMENTS, LITTLE SAND			8	2															
			9	3	14	67	SS-5	2.00	13	3	9	36	39	36	18	18	17	A-6b (11)	
@9.0'; VERY STIFF			10	6															
@10.5'; STIFF			11	2	12	72	SS-6	2.50	-	-	-	-	-	-	-	-	18	A-6b (V)	
@12.0'; MOIST			12	3															
			13	4	11	78	SS-7	2.00	-	-	-	-	-	-	-	-	18	A-6b (V)	
			14	3															
		850.5	15	4	14	61	SS-8	2.00	-	-	-	-	-	-	-	-	23	A-6b (V)	
			16	2															
STIFF, RED, CLAY, SOME SILT, LITTLE STONE FRAGMENTS, TRACE SAND, MOIST			17	4															
		849.0	18	1	12	89	SS-9	1.50	11	1	6	33	49	43	20	23	25	A-7-6 (14)	
STIFF, RED AND OLIVE BROWN, SILT AND CLAY, LITTLE STONE FRAGMENTS, LITTLE SAND, DAMP			19	3	15	22	SS-10	1.75	-	-	-	-	-	-	-	-	19	A-6a (V)	
@16.5'; VERY STIFF			20	5															
		846.0	21	3	17	78	SS-11	2.00	20	2	8	34	36	39	24	15	21	A-6a (9)	
VERY STIFF, DARK RED, SILT AND CLAY, SOME STONE FRAGMENTS, TRACE SAND, DAMP			22	6															
@19.5'; STIFF, MOIST			23	5	24	89	SS-12	2.00	32	2	5	29	32	38	23	15	17	A-6a (7)	
@21.0'; VERY STIFF, RED			24	11															
			25	2	11	22	SS-13	1.00	-	-	-	-	-	-	-	-	24	A-6a (V)	
@22.5'; STIFF			26	3															
@24.0'; VERY STIFF, DAMP			27	4	18	100	SS-14	2.00	-	-	-	-	-	-	-	-	21	A-6a (V)	
			28	5															
			29	7															
			30	2	12	89	SS-15	1.50	22	1	6	36	35	34	21	13	22	A-6a (8)	
			31	4															
			32	2	18	94	SS-16	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	
			33	5															
			34	2	17	100	SS-17	2.00	-	-	-	-	-	-	-	-	19	A-6a (V)	
			35	5															
			36	3	32	56	SS-18	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	
			37	11															
			38	3	48	72	SS-19	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	
			39	4															
		834.0	40	14															
			41	18															
NOTES: HOLE DRY UPON COMPLETION. LAT/LONG FROM OGE HANDHELD GPS UNIT. ELEV FROM DISTRICT SURVEY TIN.																			
ABANDONMENT METHODS. MATERIALS. QUANTITIES: AUGER CUTTINGS MIXED WITH 100 LB. BENTONITE CHIPS																			



The Ohio Department of Transportation

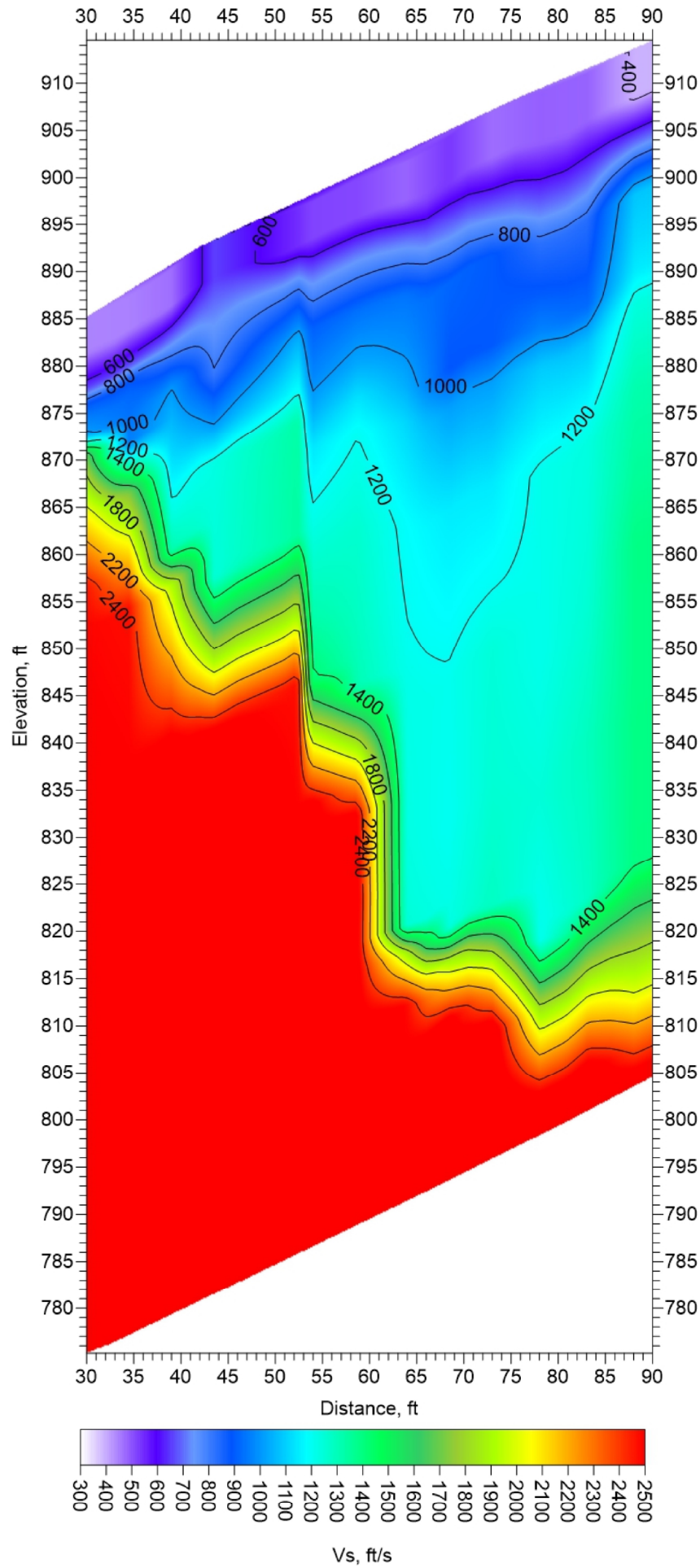
Office of Geotechnical Engineering

PROJECT:	WAS-77-9.58	DISTRICT No.:	10	PID No.	115420	Tech:	PPP
Point Load Strength Calc*: $I_s = P / (D_e^2)$ $D_e^2 = 4A/\pi$ $A = (WD')$ $F = (D_e/50)^{0.45}$ Strength = $I_s * K$ K = 24							

Sample #	Approx. El. (Ft.)	Material Type	D (mm) Initial	D (mm) Final	D' (mm) Avg	L (mm)	W (mm)	D_e^2	F	$D_e^2_{(50)}$	Failure Load (kN)	I_{s50} (MPa)	I_{s50} (psi)	Strength S_c (MPa)	Strength S_c (psi)
1		Sandstone	29.00	25.50	27.250	54.38	42.05	1458.96	4.56	6657.72	3.487	0.41	60	10	1432
			31.00	27.50	29.250	59.34	41.02	1527.68	4.66	7117.21	4.366	0.48	70	12	1677
			31.00	27.00	29.000	55.77	38.32	1414.93	4.50	6368.36	2.827	0.35	51	8	1213
			41.00	37.00	39.000	76.13	23.02	1143.09	4.09	4673.91	8.661	1.46	211	35	5065
			29.00	28.00	28.500	48.12	42.58	1545.12	4.68	7235.31	2.211	0.24	35	6	835
			46.00	43.50	44.750	47.62	43.74	2492.20	5.81	14471.31	8.029	0.44	63	10	1516
			43.00	39.50	41.250	46.69	45.36	2382.36	5.69	13555.77	3.705	0.21	31	5	747
			42.00	38.00	40.000	43.30	23.06	1174.44	4.14	4860.90	2.681	0.43	63	10	1507
			44.00	40.00	42.000	41.88	27.87	1490.38	4.61	6866.63	3.712	0.42	62	10	1478
			43.00	36.00	39.500	41.30	29.49	1483.14	4.60	6818.33	2.817	0.32	47	8	1129
												Average Strength (Sc)		1379	

Comments: Point Load sample collected from exposed bedrock cut and prepared as Block samples.
 Highlighted Sc values excluded in Average Strength Sc calculation.

WAS-77-9.58 Refraction Microtremor Section



WAS-77-9.58 Inverted Resistivity Section

