PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 60+91, 6' LT.	EXPLORATION ID B-001-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 828.9 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087924, -83.668597	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (8")	828.3																		
VERY STIFF, BROWN, **SILTY CLAY**, LITTLE GRAVEL AND STONE FRAGMENTS, TRACE SAND, DAMP		1																	
		2	8 7 8	21	100	SS-1	3.50	12	3	2	36	47	34	18	16	17	A-6b (10)	550	
@3.0'; HARD		3	7 8 10	25	100	SS-2	4.50	16	3	3	34	44	34	18	16	16	A-6b (10)	670	
	824.4	4																	
VERY STIFF, BROWN, **SANDY SILT**, SOME CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST		5	6 4 6	14	100	SS-3	2.50	15	11	22	27	25	22	14	8	18	A-4a (3)	-	
@6.0'; HARD		6																	
	821.4	7	5 4 7	15	100	SS-4	4.50	-	-	-	-	-	-	-	-	17	A-4a (V)	-	
		EOB																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 63+99, 33' RT.	EXPLORATION ID B-002-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 829.1 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/4/21 END: 2/4/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087816, -83.667478	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (10")	829.1																		
VERY STIFF, GRAY, **SILT AND CLAY**, SOME GRAVEL AND STONE FRAGMENTS, LITTLE SAND, MOIST	828.2	1																	
		2	4 5 4	13	33	SS-1	3.25	21	6	11	27	35	29	15	14	17	A-6a (7)	630	
@3.0'; "AND" GRAVEL AND STONE FRAGMENTS		3	3 4 4	11	89	SS-2	3.75	37	6	9	22	26	27	14	13	15	A-6a (4)	430	
		4 5	3 3 3	8	11	SS-3	-	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
		6 7	3 2 2	6	44	SS-4	2.75	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
	821.6	EOB																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 67+44, 5' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 829.8 (ft) EOB: 7.5 ft.
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087919, -83.666228

EXPLORATION ID B-003-0-21

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (8")	829.1																		
HARD, GRAY MOTTLED WITH BROWN, **SILTY CLAY**, SOME STONE FRAGMENTS, LITTLE SAND, DAMP	826.8	1 2 3	20 6 5	15	100	SS-1	4.50	32	6	5	26	31	40	18	22	16	A-6b (9)	980	
STIFF, MOTTLED BROWN AND GRAY, **CLAY**, SOME SILT, SOME STONE FRAGMENTS, TRACE SAND, MOIST	823.8	4 5 6	3 4 5	13	83	SS-2	1.50	28	2	3	26	41	47	18	29	25	A-7-6 (15)	510	
			4 3 4	10	89	SS-3	2.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	-	
STIFF, MOTTLED BROWN GRAY, **SILT AND CLAY**, SOME STONE FRAGMENTS, SOME SAND, MOIST	822.3	7	3 3 6	13	100	SS-4	1.00	26	9	15	24	26	30	15	15	21	A-6a (5)	-	
EOB																			

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 70+99, 33' RT.	EXPLORATION ID B-004-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 828.8 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/4/21 END: 2/4/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087813, -83.664939	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (9")	828.0																		
MEDIUM DENSE, GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND CLAY**, DAMP	825.8	1–3	6 5 5	14	61	SS-1	-	54	12	7	15	12	24	13	11	10	A-2-6 (0)	930	
STIFF, GRAY, **SILT AND CLAY**, "AND" GRAVEL AND STONE FRAGMENTS, LITTLE SAND, MOIST	824.3	3–4	4 3 5	11	94	SS-2	2.00	39	8	8	19	26	28	14	14	14	A-6a (3)	850	
HARD, BROWN, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, DAMP	821.3	5–7	3 3 6	13	89	SS-3	4.50	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
EOB			7 8 10	25	100	SS-4	4.50	9	5	11	30	45	31	17	14	17	A-6a (10)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 74+71, 6' LT.	EXPLORATION ID B-005-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 830.1 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087917, -83.663590	

MATERIAL DESCRIPTION AND NOTES	ELEV. 830.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (8")	829.5																		
VERY STIFF, GRAY, **SILT AND CLAY**, "AND" STONE FRAGMENTS, LITTLE SAND, DAMP	827.1	1	23 6	-	100	SS-1	2.25	40	7	5	22	26	38	24	14	16	A-6a (4)	980	
STIFF, MOTTLED BROWN AND GRAY, **CLAY**, SOME SILT, TRACE SAND, TRACE STONE FRAGMENTS, MOIST		2	4 4 6	14	89	SS-2	1.75	5	2	5	34	54	50	19	31	25	A-7-6 (18)	460	
@4.5'; VERY STIFF		3	4 4 5	13	100	SS-3	3.00	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
@6.0'; MEDIUM STIFF, BROWN MOTTLED WITH GRAY	822.6	4	3 4 4	11	100	SS-4	0.50	-	-	-	-	-	-	-	-	22	A-7-6 (V)	-	
		5																	
		6																	
		7 EOB																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 78+24, 32' RT.	EXPLORATION ID B-006-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 830.2 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087813, -83.662309	

MATERIAL DESCRIPTION AND NOTES	ELEV. 830.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (8")	829.5																		
VERY STIFF, DARK GRAY, **SILT AND CLAY**, "AND" STONE FRAGMENTS, LITTLE SAND, DAMP	827.2	1–2	18 6 6	17	100	SS-1	3.00	43	10	7	20	20	30	17	13	11	A-6a (2)	480	
STIFF, DARK GRAY, **CLAY**, SOME SILT SOME STONE FRAGMENTS, LITTLE SAND, MOIST	824.2	3–4	5 4 5	13	83	SS-2	1.50	22	5	11	27	35	41	19	22	23	A-7-6 (10)	260	
		5	4 3 4	10	89	SS-3	1.75	-	-	-	-	-	-	-	-	22	A-7-6 (V)	-	
STIFF, MOTTLED BROWN AND GRAY, **SILTY CLAY**, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST	822.7	6–7	5 4 7	15	100	SS-4	2.00	5	4	15	28	48	39	19	20	22	A-6b (12)	-	
		EOB																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 81+36, 18' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 841.1 (ft) EOB: 7.5 ft.
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087946, -83.661179

EXPLORATION ID B-007-0-21

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 841.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (8")	840.5																		
MEDIUM DENSE, GRAY, **STONE FRAGMENTS WITH SAND, SILT, AND CLAY**, DAMP	838.1	1	10 5 4	13	61	SS-1	-	54	8	6	16	16	33	17	16	15	A-2-6 (1)	830	
VERY STIFF, MOTTLED BROWN AND GRAY, **SILTY CLAY**, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST		2	5 4 6	14	100	SS-2	2.25	2	4	10	37	47	34	18	16	19	A-6b (10)	160	
@4.5'; STIFF		3	4 5 6	15	89	SS-3	1.75	-	-	-	-	-	-	-	-	21	A-6b (V)	-	
@6.0'; VERY STIFF, GRAY MOTTLED WITH BROWN	833.6	4 5 6 7 EOB	3 5 7	17	100	SS-4	4.00	-	-	-	-	-	-	-	-	20	A-6b (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 81+22, 78' RT.	EXPLORATION ID B-007-2-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 828.9 (ft) EOB: 20.0 ft.	PAGE 1 OF 1
START: 2/22/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087683, -83.661229	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	828.4																		
VERY STIFF, MOTTLED BROWN AND GRAY, **CLAY**, "AND" SILT, TRACE SAND, TRACE GRAVEL, CONTAINS TRACE ROOTS, MOIST		1																	
		2	2 4 5	13	44	SS-1	2.50	4	1	5	36	54	51	22	29	28	A-7-6 (18)	-	
		3																	
		4	2 4 3	10	56	SS-2	2.50	-	-	-	-	-	-	-	-	29	A-7-6 (V)	-	
		5																	
	822.9	6																	
VERY STIFF, BROWN, **SILT AND CLAY**, LITTLE SAND, LITTLE GRAVEL, MOIST		7			92	ST-3	3.00	8	6	12	31	43	31	18	13	18	A-6a (9)	-	
@7.3'; QU = 4,709 PSF @ 8.3% STRAIN; γ_d = 111.28 PCF		8																	
@8.5'; HARD		9	7 9 14	34	78	SS-4	4.5+	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
		10																	
@11.0'; GRAY		11	6 13 10	34	78	SS-5	4.5+	7	6	14	31	42	26	14	12	14	A-6a (8)	-	
		12																	
		13																	
		14	5 8 11	28	89	SS-6	4.50	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
		15																	
@16.0'; VERY STIFF		16																	
		17	5 8 9	25	100	SS-7	3.00	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
		18																	
		19	3 6 7	19	89	SS-8	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
	808.9	EOB 20																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 88+68, 16' LT.	EXPLORATION ID B-008-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 840.2 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/17/21 END: 2/17/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087938, -83.658521	

MATERIAL DESCRIPTION AND NOTES	ELEV. 840.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (10")	839.4																		
VERY STIFF, GRAY AND BROWN, **SILTY CLAY**, "AND" GRAVEL, LITTLE SAND, MOIST	836.7	1	11 4 4	11	89	SS-1	3.00	41	8	8	21	22	37	17	20	17	A-6b (4)	290	
HARD, GRAYISH BROWN, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST		2	3 3 5	11	100	SS-2	4.50	8	4	10	33	45	39	18	21	26	A-6b (12)	320	
		3	4 5 5	14	89	SS-3	4.50	-	-	-	-	-	-	-	-	21	A-6b (V)	-	
@6.0'; VERY STIFF, MOTTLED BROWN AND GRAY	832.7	4	6 7 10	24	100	SS-4	2.50	-	-	-	-	-	-	-	-	19	A-6b (V)	-	
EOB		5																	
		6																	
		7																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 89+96, 51' LT.	EXPLORATION ID B-008-1-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 826.9 (ft) EOB: 20.0 ft.	PAGE 1 OF 1
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.088032, -83.658058	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	826.9																		
VERY STIFF, MOTTLED BROWN AND GRAY, **CLAY**, SOME SILT, TRACE SAND, CONTAINS TRACE ROOTS, MOIST	826.4		1 5 7	18	56	SS-1	2.50	0	2	4	35	59	47	20	27	23	A-7-6 (16)	-	
@3.5'; STIFF		▽ 823.0	1 3 3	9	67	SS-2	2.00	-	-	-	-	-	-	-	-	26	A-7-6 (V)	-	
SOFT, MOTTLED BROWN AND GRAY, **SILT AND CLAY**, SOME SAND, TRACE GRAVEL, WET	820.9 820.4				92	ST-3A	0.50	1	6	28	32	33	28	14	14	26	A-6a (8)	-	
						ST-3B	-	23	22	33	14	8	NP	NP	NP	19	A-3a (0)	-	
VERY LOOSE, BROWN, **COARSE AND FINE SAND**, SOME GRAVEL, LITTLE SILT, TRACE CLAY, WET	819.4 819.1					ST-3C	2.00	12	16	29	21	22	19	12	7	14	A-4a (2)	-	
	818.4					ST-3D	-	0	6	78	9	7	NP	NP	NP	21	A-3a (0)	-	
STIFF, BROWN, **SANDY SILT**, SOME CLAY, LITTLE GRAVEL, MOIST			6 6 9	22	67	SS-4	4.50	6	7	13	31	43	27	16	11	16	A-6a (8)	-	
VERY LOOSE, BROWN, **COARSE AND FINE SAND**, TRACE SILT, TRACE CLAY, WET																			
HARD, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST			5 11 11	33	78	SS-5	4.00	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
			6 10 12	33	78	SS-6	4.50	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
@16.0'; LITTLE GRAVEL			5 11 16	40	100	SS-7	4.50	11	5	11	28	45	29	16	13	16	A-6a (9)	-	
			5 9 12	31	100	SS-8	4.00	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
	806.9	EOB																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 189+67, 57' RT.	EXPLORATION ID B-008-2-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99EB	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 826.7 (ft) EOB: 20.0 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087561, -83.658256	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	826.7																		
VERY STIFF, MOTTLED BROWN AND GRAY, **CLAY**, SOME SILT, TRACE SAND, MOIST	826.2	1																	
		2	2 5 6	16	61	SS-1	2.50	0	1	3	33	63	57	23	34	28	A-7-6 (19)	-	
		3																	
@3.5'; STIFF		4	2 3 4	10	61	SS-2	2.00	-	-	-	-	-	-	-	-	27	A-7-6 (V)	-	
		5																	
@6.0'; SOFT, BROWN, "AND" SILT		6																	
@6.25'; QU = 778 PSF @ 6.8% STRAIN; γ_d = 95.61 PCF	819.5	7			100	ST-3A	4.5+	0	1	2	38	59	46	20	26	23	A-7-6 (16)	-	
						ST-3B	-	27	13	30	19	11	NP	NP	NP	13	A-2-4 (0)	-	
LOOSE, BROWN, **GRAVEL WITH SAND AND SILT**, LITTLE CLAY, DAMP	818.2	8																	
HARD, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST		9	6 6 13	28	89	SS-4	4.5+	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
		10																	
		11																	
		12	6 9 11	30	78	SS-5	4.50	9	5	12	33	41	26	14	12	15	A-6a (9)	-	
		13																	
@13.5'; VERY STIFF		14	5 7 9	24	83	SS-6	4.00	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
		15																	
		16																	
		17	6 7 10	25	100	SS-7	2.00	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
		18																	
		19	4 7 8	22	100	SS-8	2.00	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
	806.7	EOB 20																	

NOTES: LAT. & LONG. FROM OGE HAND HELD GPS. ELEV. FROM PROJECT TERRAIN MODEL. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 191+99, 0' LT.	EXPLORATION ID B-009-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99EB	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 829.6 (ft) EOB: 6.0 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087789, -83.657397	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (5")	829.2																		
VERY STIFF, BROWN, **SILTY CLAY**, LITTLE SAND, LITTLE GRAVEL, DAMP		1																	
		2	1 2 3	7	44	SS-1	2.50	17	9	11	30	33	39	19	20	18	A-6b (10)	190	
@3.0'; STIFF, MOIST		3	2 3 4	10	61	SS-2	2.00	20	10	10	29	31	40	21	19	23	A-6b (9)	110	
@4.5'; VERY STIFF, MOTTLED BROWN AND GRAY		4																	
		5	2 4 5	13	67	SS-3	3.00	-	-	-	-	-	-	-	-	25	A-6b (V)	-	
	823.6	EOB 6																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 20 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 95+76, 18' LT.	EXPLORATION ID B-010-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 827.1 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/17/21 END: 2/17/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087935, -83.655954	

MATERIAL DESCRIPTION AND NOTES	ELEV. 827.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (12")	826.1	1																	
VERY STIFF, BROWN AND GRAY, **SILTY CLAY**, SOME GRAVEL, LITTLE SAND, DAMP	824.1	2	18 5 6	15	100	SS-1	3.75	30	10	7	23	30	34	17	17	15	A-6b (6)	710	
HARD, MOTTLED BROWN AND GRAY, **SILT**, SOME CLAY, LITTLE SAND, TRACE GRAVEL, MOIST	822.6	3 4	6 10 11	29	100	SS-2	4.25	3	3	11	55	28	25	16	9	17	A-4b (8)	200	
HARD, MOTTLED BROWN AND GRAY, **SILT AND CLAY**, SOME SAND, LITTLE GRAVEL, TRACE ORGANICS, MOIST	819.6	5 6	6 6 8	20	100	SS-3	4.50	12	8	13	32	35	27	16	11	16	A-6a (7)	-	
EOB		7	8 8 11	27	100	SS-4	4.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 99+59, 34' RT.	EXPLORATION ID B-011-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 825.2 (ft) EOB: 6.0 ft.	PAGE 1 OF 1
START: 3/2/21 END: 3/2/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087785, -83.654567	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (5")	825.2 / 824.8	1																	
VERY STIFF, BROWN, **SANDY SILT**, SOME CLAY, SOME STONE FRAGMENTS, MOIST	822.2	2	5 6 5	16	67	SS-1	2.50	21	4	10	40	25	29	19	10	19	A-4a (6)	<100	
VERY STIFF, BROWN, **SILT AND CLAY**, SOME STONE FRAGMENTS, LITTLE SAND, MOIST	820.7	3 4	3 3 3	9	67	SS-2	2.50	23	8	10	30	29	32	18	14	22	A-6a (6)	<100	
HARD, BROWN MOTTLED WTIH GRAY, **SILT AND CLAY**, LITTLE SAND, LITTLE STONE FRAGMENTS, DAMP	819.2	5 EOB 6	3 9 10	28	61	SS-3	4.5+	14	6	12	24	44	31	18	13	16	A-6a (8)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 103+37, 19' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 823.7 (ft) EOB: 7.5 ft.
START: 2/17/21 END: 2/17/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087927, -83.653193

EXPLORATION ID B-012-0-21

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (12")	823.7																		
MEDIUM DENSE, GRAY AND BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND CLAY**, DAMP	822.7	1	12 6 4	14	100	SS-1	2.50	37	18	10	20	15	30	16	14	14	A-2-6 (1)	2100	
VERY STIFF, MOTTLED BROWN AND GRAY, **CLAY**, SOME SILT, LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST	820.7	2	4 6 8	20	100	SS-2	3.25	8	4	8	35	45	42	18	24	22	A-7-6 (14)	1500	
@6.0'; HARD	816.2	3 4 5 6 7 EOB	5 4 5	13	89	SS-3	4.00	-	-	-	-	-	-	-	-	20	A-7-6 (V)	-	
			5 5 9	20	83	SS-4	4.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 107+19, 19' LT.	EXPLORATION ID B-013-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 821.2 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/17/21 END: 2/17/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.087922, -83.651809	

MATERIAL DESCRIPTION AND NOTES	ELEV. 821.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (12")	820.2																		
HARD, GRAY AND BROWN, **SILT AND CLAY**, SOME SAND, SOME GRAVEL, DAMP	818.2	1 2 3	10 8 5	18	83	SS-1	4.25	29	20	10	20	21	31	17	14	14	A-6a (2)	1200	
VERY STIFF, MOTTLED BROWN AND GRAY, **SILTY CLAY**, SOME GRAVEL AND STONE FRAGMENTS, LITTLE SAND, MOIST @4.5' - 6.0'; STIFF		4 5 6	4 5 5	14	72	SS-2	2.75	27	6	8	25	34	38	18	20	21	A-6b (9)	1300	
			4 3 4	10	100	SS-3	1.50	-	-	-	-	-	-	-	-	24	A-6b (V)	-	
	813.7	EOB 7	4 4 5	13	61	SS-4	3.75	-	-	-	-	-	-	-	-	21	A-6b (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 110+98, 44' RT.	EXPLORATION ID B-014-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 819.3 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/2/21 END: 3/2/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087744, -83.650436	

MATERIAL DESCRIPTION AND NOTES	ELEV. 819.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	818.8																		
VERY STIFF, BROWN, **SILTY CLAY**, SOME STONE FRAGMENTS, LITTLE SAND, SLIGHTLY ORGANIC (LOI = 3.1%), MOIST	816.3	1	3 5 6	16	67	SS-1	2.50	23	6	12	28	31	38	20	18	20	A-6b (8)	<100	
STIFF, MOTTLED BROWN AND GRAY, **CLAY**, SOME SILT, SOME STONE FRAGMENTS, LITTLE SAND, CONTAINS TRACE ROOTS, MOIST		2	2 4 5	13	67	SS-2	2.00	21	3	11	30	35	43	19	24	24	A-7-6 (12)	<100	
@6.0'; HARD		3	3 3 4	10	78	SS-3	2.00	-	-	-	-	-	-	-	-	24	A-7-6 (V)	-	
	811.8	4	2 5 8	19	67	SS-4	4.5+	-	-	-	-	-	-	-	-	19	A-7-6 (V)	-	
		EOB 5																	
		6																	
		7																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 283+82, 4' RT.	EXPLORATION ID B-015-0-21
TYPE: BRIDGE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99WB	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 831.8 (ft) EOB: 88.9 ft.	PAGE 1 OF 2
START: 2/11/21 END: 2/25/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087684, -83.660363	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED
TOPSOIL (6")	831.3																		
VERY STIFF, BROWN, **CLAY**, SOME SILT, LITTLE SAND, LITTLE GRAVEL, TRACE ROOTS, MOIST			3 6 7	19	17	SS-1	2.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-	
@3.0'; MOTTLED GRAY AND BROWN	827.3		2 4 7	16	78	SS-2	3.00	12	3	11	30	44	45	21	24	27	A-7-6 (14)	110	
VERY STIFF, MOTTLED GRAY AND BROWN, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST			2 4 6	15	56	SS-3	2.50	2	4	14	32	48	38	18	20	23	A-6b (12)	200	
			4 5 7	18	61	SS-4	3.50	-	-	-	-	-	-	-	-	18	A-6b (V)	-	
	823.3	W 823.6																	
HARD, MOTTLED BROWN AND GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST			8 13 16	43	100	SS-5	4.50	4	7	13	29	47	31	17	14	17	A-6a (10)	-	
	818.3		12 25 20	67	89	SS-6	4.5+	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
VERY STIFF, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST			5 6 8	21	67	SS-7	3.00	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
			5 7 9	24	78	SS-8	2.50	2	7	11	31	49	29	16	13	18	A-6a (9)	-	
@18.5' - 20.0'; STIFF			2 4 6	15	78	SS-9	2.00	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
@22.0'; QU = 5,184 PSF @ 14.7% STRAIN; γ_d = 112.55PCF					100	ST-10	2.75	5	5	11	31	48	29	15	14	19	A-6a (10)	-	
			1 5 6	16	100	SS-11	2.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
			4 8 8	24	100	SS-12	2.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
@29.5'; QU = 5,342 PSF @ 14.5% STRAIN; γ_d = 113.07PCF					100	ST-13	2.50	6	5	10	30	49	28	16	12	19	A-6a (9)	-	
			4 6 10	24	100	SS-14	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
			5 9 13	33	100	SS-15	2.75	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
			3 8 10	27	100	SS-16	2.50	7	5	11	30	47	28	15	13	19	A-6a (9)	-	
			5 8 11	28	100	SS-17	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
			2 8 10	27	100	SS-18	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
	773.3																		
VERY DENSE, GRAY, **SILT**, TRACE SAND, TRACE CLAY, WET			18 25 27	77	78	SS-19	1.00	0	3	4	88	5	NP	NP	NP	22	A-4b (8)	-	

STANDARD ODOT LOG W/ SULFATE (11 X 17) - OH DOT.GDT - 4/30/21 09:57 - X:\GINT\PROJECTS\600827.GPJ

PID: 102375	SFN:	PROJECT: HAN-75/CR99	STATION / OFFSET: 283+82, 4' RT.	START: 2/11/21	END: 2/25/21	PG 2 OF 2	B-015-0-21

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED
VERY DENSE, GRAY, **SILT**, TRACE SAND, TRACE CLAY, WET *(continued)*	771.8	61																	
		62																	
		63																	
@63.5'; LITTLE CLAY, MOIST		64	14 24 22	68	89	SS-20	4.00	0	0	0	80	20	NP	NP	NP	17	A-4b (8)	-	
		65																	
		66																	
	763.3	67																	
VERY STIFF, GRAY, **CLAY**, "AND" SILT, TRACE SAND, MOIST		68																	
		69	4 8 12	30	100	SS-21	2.50	0	0	1	56	43	42	19	23	22	A-7-6 (14)	-	
		70																	
		71																	
		72																	
	758.3	73																	
HARD, GRAY, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, DAMP		74	13 18 28	68	100	SS-22	4.5+	9	9	20	38	24	17	12	5	11	A-4a (5)	-	
		75																	
		76																	
		77																	
	753.3	78																	
HARD, GRAY, **SILT**, SOME SAND, LITTLE CLAY, DAMP		79	20 29 35	95	100	SS-23	4.00	0	3	27	52	18	16	14	2	13	A-4b (7)	-	
		80																	
		81																	
		82																	
		83																	
	748.3	84																	
HARD, GRAY, **SANDY SILT**, "AND" CLAY, MOIST		85	23 26 32	86	100	SS-24	4.5+	0	0	1	45	54	25	16	9	20	A-4a (8)	-	
		86																	
		87																	
		88																	
@88.5'; LITTLE GRAVEL, LITTLE CLAY, DAMP	742.9	EOB	63/5"	-	80	SS-25	4.5+	20	16	22	31	11	15	12	3	8	A-4a (1)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 75 LB. BENTONITE GROUT; 150 GAL. WATER

STANDARD ODOT LOG W/ SULFATE (11 X 17) - OH DOT.GDT - 4/30/21 09:57 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 286+34, 5' RT.	EXPLORATION ID B-017-0-21
TYPE: BRIDGE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: CR 99WB	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 830.2 (ft) EOB: 90.0 ft.	PAGE 1 OF 2
START: 2/24/21 END: 3/1/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087676, -83.659449	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED
TOPSOIL (6")	829.7																		
VERY STIFF, BROWN, **SILTY CLAY**, LITTLE STONE FRAGMENTS, TRACE SAND, MOIST			3 6 7	19	61	SS-1	3.00	12	2	8	41	37	35	19	16	20	A-6b (10)	<100	
			3 4 6	15	56	SS-2	2.50	13	1	8	40	38	36	17	19	20	A-6b (12)	<100	
	824.2		3 6 8	21	72	SS-3	2.00	-	-	-	-	-	-	-	-	18	A-6b (V)	-	
VERY STIFF, MOTTLED BROWN AND GRAY, **SANDY SILT**, SOME CLAY, LITTLE STONE FRAGMENTS, MOIST			7 9 11	30	78	SS-4	2.00	-	-	-	-	-	-	-	-	17	A-4a (V)	-	
	819.2		2 4 9	19	89	SS-5	2.50	12	8	21	32	27	20	14	6	15	A-4a (5)	-	
HARD, GRAYISH BROWN, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST			6 11 12	34	100	SS-6	4.50	8	6	13	35	38	26	15	11	17	A-6a (8)	-	
@13.5'; GRAY			5 9 12	31	100	SS-7	4.50	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
@16.0'; LITTLE GRAVEL			9 17 19	53	100	SS-8	4.50	13	5	10	28	44	28	16	12	16	A-6a (8)	-	
			5 8 11	28	89	SS-9	4.00	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
			6 9 12	31	100	SS-10	4.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
@23.5'; VERY STIFF, MOIST			6 8 10	27	100	SS-11	2.50	12	5	10	24	49	30	17	13	19	A-6a (9)	-	
			5 10 17	40	100	SS-12	2.50	-	-	-	-	-	-	-	-	18	A-6a (V)	-	
@28.5'; STIFF, TRACE GRAVEL					100	ST-13	2.50	6	5	10	29	50	29	15	14	16	A-6a (10)	-	
@30.0'; QU = 2,830 PSF @ 15.0% STRAIN; γ_d = 116.10 PCF																			
			4 7 10	25	89	SS-14	1.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
@35.5'; LITTLE GRAVEL					100	ST-15	3.00	13	4	10	26	47	28	15	13	18	A-6a (9)	-	
@36.8'; QU = 2,448 PSF @ 15.0% STRAIN; γ_d = 113.60 PCF																			
@38.5'; VERY STIFF, WITH TRACE SAND SEAM			5 12 15	40	100	SS-16	3.00	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
			5 7 9	24	100	SS-17	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
			5 8 9	25	100	SS-18	2.50	12	4	8	28	48	28	16	12	30	A-6a (9)	-	
			3 7 9	24	100	SS-19	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
	771.7																		
VERY DENSE, GRAY, **SILT**, TRACE CLAY, TRACE SAND, TRACE GRAVEL, MOIST			11 19 21	59	89	SS-20	-	1	0	5	86	8	NP	NP	NP	22	A-4b (8)	-	

STANDARD ODOT LOG W/ SULFATE (11 X 17) - OH DOT.GDT - 4/30/21 09:57 - X:\GINT\PROJECTS\600827.GPJ

PID: 102375	SFN:	PROJECT: HAN-75/CR99	STATION / OFFSET: 286+34, 5' RT.	START: 2/24/21	END: 3/1/21	PG 2 OF 2	B-017-0-21

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED
VERY DENSE, GRAY, **SILT**, TRACE CLAY, TRACE SAND, TRACE GRAVEL, MOIST *(continued)*	770.2	61																	
		62																	
		63																	
@63.5'; DENSE		64	4 8 15	34	100	SS-21	-	-	-	-	-	-	-	-	-	23	A-4b (V)	-	
		65																	
		66																	
		67																	
		68																	
		69	6 10 13	34	100	SS-22	-	-	-	-	-	-	-	-	-	25	A-4b (V)	-	
		70																	
		71																	
		72																	
		73																	
HARD, GRAY, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, DAMP	756.7	74	18 19 22	61	100	SS-23	4.5+	7	11	19	39	24	18	13	5	11	A-4a (6)	-	
		75																	
		76																	
		77																	
		78																	
@78.5'; MOIST		79	26 36 45	120	83	SS-24	4.5+	-	-	-	-	-	-	-	-	14	A-4a (V)	-	
		80																	
		81																	
		82																	
		83																	
		84	21 35 47	122	100	SS-25	4.50	-	-	-	-	-	-	-	-	15	A-4a (V)	-	
		85																	
		86																	
▽ 743.1		87																	
		88																	
@88.5'; DAMP		89	40 30 38	101	100	SS-26	4.5+	10	11	16	41	22	18	13	5	11	A-4a (6)	-	
	740.2 EOB	90																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. QU RESULTS FROM UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST AASHTO T-296

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 250 LB. BENTONITE GROUT; 150 GAL. WATER

STANDARD ODOT LOG W/ SULFATE (11 X 17) - OH DOT.GDT - 4/30/21 09:57 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 405+54, 8' LT.	EXPLORATION ID B-018-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP A	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 831.0 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.085538, -83.660197	

MATERIAL DESCRIPTION AND NOTES	ELEV. 831.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (16.5")	829.7	1																	
HARD, GRAYISH BROWN, **SILTY CLAY**, SOME STONE FRAGMENTS, LITTLE SAND, DAMP		2	10 8 8	22	89	SS-1	4.50	32	8	12	27	21	39	23	16	22	A-6b (5)	1900	
@3.0'; MEDIUM STIFF, GRAY AND BROWN, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST	826.5	3 4	6 3 3	8	100	SS-2	0.50	19	7	11	29	34	39	20	19	27	A-6b (9)	1200	
VERY STIFF, GRAY, **CLAY**, SOME SILT, LITTLE GRAVEL AND STONE FRAGMENTS, TRACE SAND, MOIST		5	2 3 5	11	94	SS-3	2.25	10	3	5	31	51	45	23	22	30	A-7-6 (14)	-	
@6.0'; STIFF, GRAY AND DARK GRAY, MODERATELY ORGANIC (LOI = 9.1%)	823.5	6 7 EOB	4 5 6	15	100	SS-4	2.00	13	3	6	29	49	54	27	27	36	A-7-6 (18)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 408+79, 8' LT.	EXPLORATION ID B-019-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP A	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 830.0 (ft) EOB: 6.0 ft.	PAGE 1 OF 1
START: 2/22/21 END: 2/22/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.086397, -83.660482	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	830.0 / 829.5																		
VERY STIFF, BROWN, **CLAY**, "AND" SILT, TRACE GRAVEL, TRACE SAND, MOIST	827.0	1–3	1 4 7	16	67	SS-1	2.50	6	1	2	36	55	47	20	27	23	A-7-6 (16)	<100	
VERY STIFF, BROWN, **SILTY CLAY**, TRACE SAND, TRACE GRAVEL, MOIST	824.0	3–6 EOB	2 4 9	19	72	SS-2	3.00	1	1	2	42	54	37	19	18	22	A-6b (11)	<100	
			5 9 8	25	78	SS-3	3.50	-	-	-	-	-	-	-	-	20	A-6b (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 412+47, 19' RT.	EXPLORATION ID B-020-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP A	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 828.5 (ft) EOB: 25.0 ft.	PAGE 1 OF 1
START: 2/22/21 END: 2/22/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087383, -83.660785	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	828.0																		
STIFF, MOTTLED BROWN AND GRAY, **CLAY**, "AND" SILT, TRACE SAND, MOIST			1 3 4	10	67	SS-1	1.50	0	2	6	36	56	49	20	29	28	A-7-6 (17)	-	
@3.5'; VERY STIFF			3 4 4	12	67	SS-2	2.50	-	-	-	-	-	-	-	-	28	A-7-6 (V)	-	
	822.5																		
MEDIUM STIFF, MOTTLED BROWN AND GRAY, **SANDY SILT**, SOME CLAY, TRACE GRAVEL, MOIST	820.0	▽ 820.3	3 2 3	7	72	SS-3	0.50	8	8	22	39	23	23	15	8	20	A-4a (5)	-	
VERY STIFF, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, WET					83	P4	2.00	4	6	12	32	46	28	16	12	28	A-6a (9)	-	
@9.7'; QU = 4,932 PSF @ 15.0% STRAIN; γ_d = 114.48PCF																			
@11.0'; HARD, MOIST			3 5 8	19	78	SS-5	4.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
@13.5'; VERY STIFF			5 8 11	28	72	SS-6	3.50	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
@16.0'; HARD			7 11 15	39	89	SS-7	4.5+	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
@18.5'; VERY STIFF			5 9 11	30	94	SS-8	3.50	6	6	11	30	47	28	16	12	18	A-6a (9)	-	
			6 9 11	30	100	SS-9	2.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-	
	803.5	EOB	3 6 8	21	100	SS-10	2.00	-	-	-	-	-	-	-	-	18	A-6a (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 505+45, 19' RT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP B
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 830.3 (ft) EOB: 7.5 ft.
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.085788, -83.659569

EXPLORATION ID B-021-0-21

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 830.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (17")	828.9	1																	
MEDIUM DENSE, GRAY, **STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, MOIST	827.0	2	9 8 3	15	33	SS-1	-	71	15	5	7	2	NP	NP	NP	5	A-1-a (0)	840	
		3				SS-2A	-	-	-	-	-	-	-	-	-	5	A-1-a (V)	-	
SOFT, GRAY, **CLAY**, SOME GRAVEL, SOME SILT, LITTLE SAND, MOIST	825.8	4	3 2 3	7	56	SS-2B	0.25	27	6	8	25	34	42	18	24	26	A-7-6 (11)	490	
MEDIUM STIFF, BROWN AND GRAY, **SILT AND CLAY**, "AND" SAND, TRACE GRAVEL, MOIST	824.3	5	2 3 3	8	100	SS-3	1.00	7	12	30	23	28	30	15	15	22	A-6a (5)	-	
MEDIUM STIFF, BROWN AND GRAY, **SANDY SILT**, LITTLE CLAY, LITTLE GRAVEL, WET	822.8	6	3 4 8	17	100	SS-4	0.50	13	16	32	20	19	21	15	6	21	A-4a (1)	-	
EOB		7																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 508+47, 4' LT.	EXPLORATION ID B-022-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP B	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 833.8 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.086591, -83.659328	

MATERIAL DESCRIPTION AND NOTES	ELEV. 833.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (5")	833.3																		
STIFF, BROWN, **SILT AND CLAY**, SOME SAND, TRACE GRAVEL, MOIST	830.8	1																	
		2	2 5 9	21	56	SS-1	1.50	7	8	15	32	38	33	18	15	18	A-6a (9)	110	
VERY STIFF, BROWN, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST		3																	
		4	4 7 8	22	67	SS-2	3.50	2	3	10	36	49	34	17	17	18	A-6b (11)	170	
		5	4 6 8	21	67	SS-3	3.50	-	-	-	-	-	-	-	-	24	A-6b (V)	-	
@6.0'; GRAY	826.3	6																	
	EOB	7	5 9 9	27	78	SS-4	2.00	1	3	11	36	49	39	19	20	24	A-6b (12)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 20 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 511+92, 23' RT.	EXPLORATION ID B-023-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP B	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 827.7 (ft) EOB: 20.0 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.087443, -83.658805	

MATERIAL DESCRIPTION AND NOTES	ELEV. 827.7	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	827.2																		
VERY STIFF, MOTTLED BROWN AND GRAY, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST		1																	
		2	4 4 5	13	44	SS-1	2.50	7	5	11	30	47	33	16	17	17	A-6b (11)	-	
		3																	
@3.5'; STIFF		4	2 3 4	10	56	SS-2	1.50	-	-	-	-	-	-	-	-	24	A-6b (V)	-	
		5																	
	821.7	6																	
MEDIUM STIFF, GRAYISH BROWN, **SILT AND CLAY**, SOME SAND, TRACE GRAVEL, MOIST @6.9'; QU = 1,656 PSF @ 6.0% STRAIN; γ_d = 106.19PCF		7			92	ST-3	4.00	1	7	25	38	29	26	14	12	18	A-6a (7)	-	
@8.5'; HARD		8																	
		9	4 5 9	21	83	SS-4	4.50	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
		10																	
@11.0'; GRAY		11																	
		12	5 10 10	30	67	SS-5	4.5+	-	-	-	-	-	-	-	-	14	A-6a (V)	-	
		13																	
		14	5 7 10	25	83	SS-6	4.5+	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
		15																	
@16.0'; VERY STIFF, LITTLE SAND		16																	
		17	5 8 12	30	89	SS-7	3.50	5	6	11	32	46	28	15	13	17	A-6a (9)	-	
		18																	
		19	3 5 7	18	72	SS-8	3.00	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
	807.7	EOB 20																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:20 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 603+51, 21' RT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP C
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 840.3 (ft) EOB: 7.5 ft.
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.088546, -83.660529

EXPLORATION ID B-024-0-21

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 840.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (8")	839.7																		
LOOSE, GRAY, **STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, MOIST	838.3	1	4 3 4	10	72	SS-1A	-	68	16	6	8	2	NP	NP	NP	5	A-1-a (0)	150	
						SS-1B	3.50	17	7	10	29	37	35	16	19	24	A-6b (10)	<100	
VERY STIFF, MOTTLED BROWN AND GRAY, **SILTY CLAY**, LITTLE SAND, LITTLE GRAVEL, MOIST		2 3 4	4 5 6	15	100	SS-2	1.75	14	6	12	30	38	33	16	17	21	A-6b (9)	<100	
@4.5'; VERY STIFF		5 6	3 4 6	14	72	SS-3	3.00	-	-	-	-	-	-	-	-	23	A-6b (V)	-	
@6.0'; NO RECOVERY; AUGER CUTTINGS TAKEN	832.8	7 EOB	4 5 7	17	0	SS-4	0.00	-	-	-	-	-	-	-	-	28	A-6b (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 603+50, 43' LT.	EXPLORATION ID B-024-1-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP C	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 825.2 (ft) EOB: 15.0 ft.	PAGE 1 OF 1
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.088587, -83.660755	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (5")	825.2																		
VERY STIFF, BROWN, **SANDY SILT**, SOME CLAY, LITTLE GRAVEL, MOIST	824.7	1																	
		2	1 3 6	13	83	SS-1	2.50	13	9	22	26	30	24	14	10	19	A-4a (4)	-	
	821.7	3																	
HARD, BROWN AND GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP		4	5 9 12	31	89	SS-2	4.50	6	7	13	31	43	29	16	13	15	A-6a (9)	-	
		5																	
		6	6 11 12	34	78	SS-3	4.00	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
		7																	
@8.5'; VERY STIFF		8																	
		9	5 6 11	25	94	SS-4	4.00	-	-	-	-	-	-	-	-	15	A-6a (V)	-	
		10																	
@11.0'; MOIST		11																	
		12	5 11 9	30	89	SS-5	3.50	4	5	11	31	49	28	15	13	16	A-6a (9)	-	
		13																	
		14	4 7 11	27	100	SS-6	3.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
	810.2	EOB 15																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 20 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 606+51, 2' LT.	EXPLORATION ID B-025-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP C	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 830.4 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.089361, -83.660347	

MATERIAL DESCRIPTION AND NOTES	ELEV. 830.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (17")	829.0	1																	
LOOSE, BROWN, **STONE FRAGMENTS**, SOME SAND, LITTLE SILT, TRACE CLAY, WET	827.4	2	7 3 3	8	33	SS-1	-	59	19	8	11	3	NP	NP	NP	9	A-1-a (0)	480	
VERY STIFF, DARK GRAY, **SILTY CLAY**, SOME STONE FRAGMENTS, LITTLE SAND, MODERATELY ORGANIC (LOI = 7.1%), MOIST	825.9	3	4 5 8	18	83	SS-2	3.75	32	5	9	24	30	40	21	19	29	A-6b (7)	330	
STIFF, MOTTLED BROWN AND GRAY, **CLAY**, SOME STONE FRAGMENTS, SOME SILT, TRACE SAND, MOIST		4	3 4 5	13	83	SS-3	1.75	29	2	6	23	40	46	20	26	30	A-7-6 (13)	140	
@6.0'; VERY STIFF, CONTAINS WOOD FRAGMENTS	822.9	5	4 5 7	17	100	SS-4	2.00	-	-	-	-	-	-	-	-	27	A-7-6 (V)	-	
EOB		6																	
		7																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 609+51, 5' RT.	EXPLORATION ID B-026-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP C	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 827.6 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.090161, -83.660083	

MATERIAL DESCRIPTION AND NOTES	ELEV. 827.6	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (16")	826.2	1																	
HARD, BROWN, **SILT AND CLAY**, SOME GRAVEL AND STONE FRAGMENTS, SOME SAND, DAMP		2	12 22 22	62	94	SS-1	4.50	27	15	11	27	20	37	23	14	17	A-6a (4)	2000	
@3.0'; LITTLE GRAVEL AND STONE FRAGMENTS	823.1	3 4	11 12 11	32	100	SS-2	4.50	18	10	17	27	28	28	17	11	16	A-6a (4)	670	
HARD, BROWN, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, DAMP		5	9 8 9	24	100	SS-3	4.50	-	-	-	-	-	-	-	-	15	A-6b (V)	-	
@6.0'; BROWN AND GRAY, MOIST	820.1	6 7 EOB	7 10 13	32	100	SS-4	4.50	4	6	11	29	50	34	18	16	18	A-6b (10)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / LEWIS	DRILL RIG: CME 850R TRACKED	STATION / OFFSET: 703+00, 21' RT.	EXPLORATION ID B-027-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: ODOT / MCINTOSH	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP D	
PID: 102375 SFN:	DRILLING METHOD: 3.75" HSA	CALIBRATION DATE: 5/1/19	ELEVATION: 825.5 (ft) EOB: 15.0 ft.	PAGE 1 OF 1
START: 2/23/21 END: 2/23/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	LAT / LONG: 41.088432, -83.659025	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
TOPSOIL (6")	825.5																		
HARD, MOTTLED BROWN AND GRAY, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP	825.0	1																	
		2	3 5 7	18	56	SS-1	4.50	9	6	11	28	46	35	18	17	18	A-6b (11)	-	
		3																	
		4	6 12 13	37	89	SS-2	4.5+	-	-	-	-	-	-	-	-	17	A-6b (V)	-	
		5																	
	819.5	6																	
HARD, GRAY, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP		7	8 12 16	42	94	SS-3	4.50	5	6	12	30	47	29	17	12	15	A-6a (9)	-	
		8																	
@8.5'; VERY STIFF, MOIST		9	4 6 10	24	78	SS-4	3.50	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
		10																	
		11	5 8 9	25	100	SS-5	2.50	8	6	12	30	44	28	16	12	18	A-6a (9)	-	
		12																	
		13																	
		14	3 5 8	19	78	SS-6	3.00	-	-	-	-	-	-	-	-	16	A-6a (V)	-	
	810.5	15 EOB																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 703+47, 20' LT.	EXPLORATION ID B-028-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP D	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 839.3 (ft) EOB: 9.0 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.088521, -83.659218	

MATERIAL DESCRIPTION AND NOTES	ELEV. 839.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (13.5")	838.1																		
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, WET	836.3	1	8 3 2	7	50	SS-1	-	64	21	6	6	3	NP	NP	NP	11	A-1-a (0)	740	
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND CLAY**, MOIST	834.8	2	5 3 4	10	100	SS-2	-	55	4	6	16	19	35	18	17	19	A-2-6 (1)	<100	
HARD, BROWN AND GRAY, **SILTY CLAY**, SOME STONE FRAGMENTS, LITTLE SAND, MOIST		3	3 4 7	15	94	SS-3	4.25	34	4	7	25	30	37	19	18	22	A-6b (7)	-	
		4	5 7 11	25	100	SS-4	4.50	-	-	-	-	-	-	-	-	19	A-6b (V)	-	
@7.5'; VERY STIFF, DAMP	830.3	5	5 7 8	21	100	SS-5	3.50	-	-	-	-	-	-	-	-	17	A-6b (V)	-	
		EOB 6 7 8 9																	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 706+52, 8' LT.	EXPLORATION ID B-029-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP D	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 828.0 (ft) EOB: 6.0 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.089331, -83.659506	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
828.0																			
BASE (4")	827.7																		
VERY STIFF, BROWN AND GRAY, **SILT AND CLAY**, "AND" STONE FRAGMENTS, LITTLE SAND, DAMP @1.5'; HARD, SOME STONE FRAGMENTS, SOME SAND	825.0	1 2 3	2 4 5	13	89	SS-1	4.00	43	10	8	19	20	32	18	14	13	A-6a (2)	440	
			6 7 6	18	100	SS-2	4.50	25	13	9	25	28	32	17	15	14	A-6a (6)	270	
HARD, BROWN MOTTLED WITH GRAY, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST		4	7 8 9	24	100	SS-3	4.50	3	1	3	35	58	34	19	15	19	A-6a (10)	-	
	822.0	EOB 5 6	6 6 7	18	100	SS-4	4.50	-	-	-	-	-	-	-	-	21	A-6a (V)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

PROJECT: HAN-75/CR99	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 709+49, 7' RT.	EXPLORATION ID B-030-0-21
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / WILLIAMS	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP D	
PID: 102375 SFN:	DRILLING METHOD: 2.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 827.2 (ft) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/24/21 END: 2/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 84	LAT / LONG: 41.090142, -83.659586	

MATERIAL DESCRIPTION AND NOTES	ELEV. 827.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
ASPHALT (16")	825.8	1																	
DENSE, BROWN, **STONE FRAGMENTS WITH SAND AND SILT**, TRACE CLAY, MOIST	824.2	2	10 16 20	50	100	SS-1	-	57	9	10	15	9	42	32	10	18	A-2-5 (0)	3700	
MEDIUM DENSE, BROWN, **STONE FRAGMENTS WITH SAND, SILT, AND CLAY**, MOIST		3	13 9 7	22	100	SS-2	-	61	11	6	13	9	37	26	11	14	A-2-6 (0)	1500	
@4.5'; CONTAINS BRICK/PIPE FRAGMENTS	821.2	4 5	2 3 6	13	67	SS-3	-	-	-	-	-	-	-	-	-	13	A-2-6 (V)	-	
VERY STIFF, BROWN, **SILT AND CLAY**, LITTLE SAND, TRACE GRAVEL, MOIST	819.7	6 7 EOB	9 12 19	43	100	SS-4	3.75	10	6	12	32	40	29	17	12	17	A-6a (8)	-	

NOTES: LAT./LONG. AND ELEV. FROM CONSULTANT SURVEY. HOLE DRY UPON COMPLETION.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 4/30/21 10:21 - X:\GINT\PROJECTS\600827.GPJ

CONE PENETRATION TEST SOUNDINGS REPORT

Office of Geotechnical Engineering
Division of Engineering

Project: HAN-IR75-CR99

PID: 102375

Date: April 29, 2021

Number of Soundings: 4

Equipment: A.P. van den Berg, 23 Ton Crawler, Hyson 200kN

Sounding ID	Completion Date	Probe SN	Calibration Date	Elevation	Latitude	Longitude	Surface Material	Depth (ft.)
C-007-1-21	3/9/2021	090304	8/19/2020	826.13	41.088093	-83.661145	Off road	63.87
C-015-1-21	3/9/2021	200723	10/12/2020	830.11	41.087679	-83.660307	Off road	57.71
C-016-0-21	3/10/2021	130510	11/26/2019	828.02	41.087694	-83.659868	Asphalt (18")	74.95
C-017-1-21	3/9/2021	130510	11/26/2019	830.37	41.087665	-83.659431	Off road	71.92

Project Information

Four soundings were completed for this project. Sounding C-016-0-21 was completed within IR75 on the inside shoulder through a pre-cored hole. The other soundings were completed off road and started at ground surface. The static water levels reported on the attached logs were determined by dissipation tests. The latitude, longitude, and elevation values for C-007-1-21 and C-016-1-21 are from consultant survey grade instruments. The latitude and longitude values for C-015-1-21 and C-017-1-21 are from a Trimble Geo7X handheld GPS with an external Trimble Tornado attenna. The elevation values for C-015-1-21 and C-017-1-21 are from the consultant project digital elevation model.

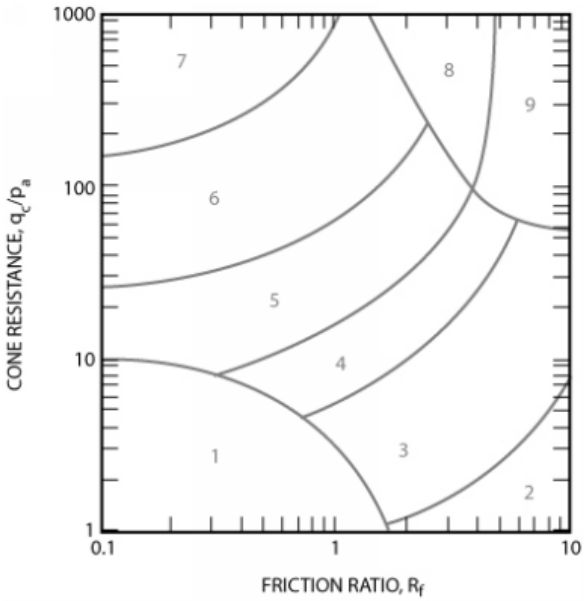
The raw CPT data is available upon request. The included CPT logs are for informational purposes only. The CPT logs have been filtered for negative values, corrected for inclination at depth, and filtered for data spikes. Additionally, for each sounding, the measured values of q_c and f_s were shifted relative to one another with a cross correlation function.

Cone Penetration Test Data and Interpretation

These Cone Penetration Test (CPT) Soundings follow ASTM D 5778 and were made by ordinary and conventional methods and with care deemed adequate for the Department's design purposes. Since subsurface conditions outside each CPT sounding are unknown, and soil, rock, and water conditions cannot be relied upon to be consistent or uniform, no warrant is made that conditions adjacent to this sounding will necessarily be the same as or similar to those shown in this report.

The CPT data collected are presented as graphical plots in the report, generated by CPeT-IT software. The plots include interpreted Soil Behavior Type (SBT) based on the method described by Robertson (2010). The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed.

The department does not warrant the correctness or the applicability of any of the geotechnical parameters interpreted by the software and does not assume any liability for use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software. Furthermore, the Department will not be responsible for an interpretations, assumptions, projections, or interpolations made by the contractor, or other users of this report. While the Department believes that the information as to the condition and materials reported is accurate, it does not warrant that the information is necessarily complete. Water pressure measurements and subsequent interpreted water levels shown in this report should be used with discretion since they represent dynamic conditions. Dynamic pore water pressure measurements may deviate substantially from hydrostatic conditions, especially in cohesive soils.



Zone	*Soil Behavior Type*
1	*Sensitive, fine grained*
2	*Organic soils - clay*
3	*Clay – silty clay to clay*
4	*Silt mixtures – clayey silt to silty clay*
5	*Sand mixtures – silty sand to sandy silt*
6	*Sands – clean sand to silty sand*
7	*Gravelly sand to dense sand*
8	*Very stiff sand to clayey sand**
9	*Very stiff fine grained**

** Heavily overconsolidated or cemented*

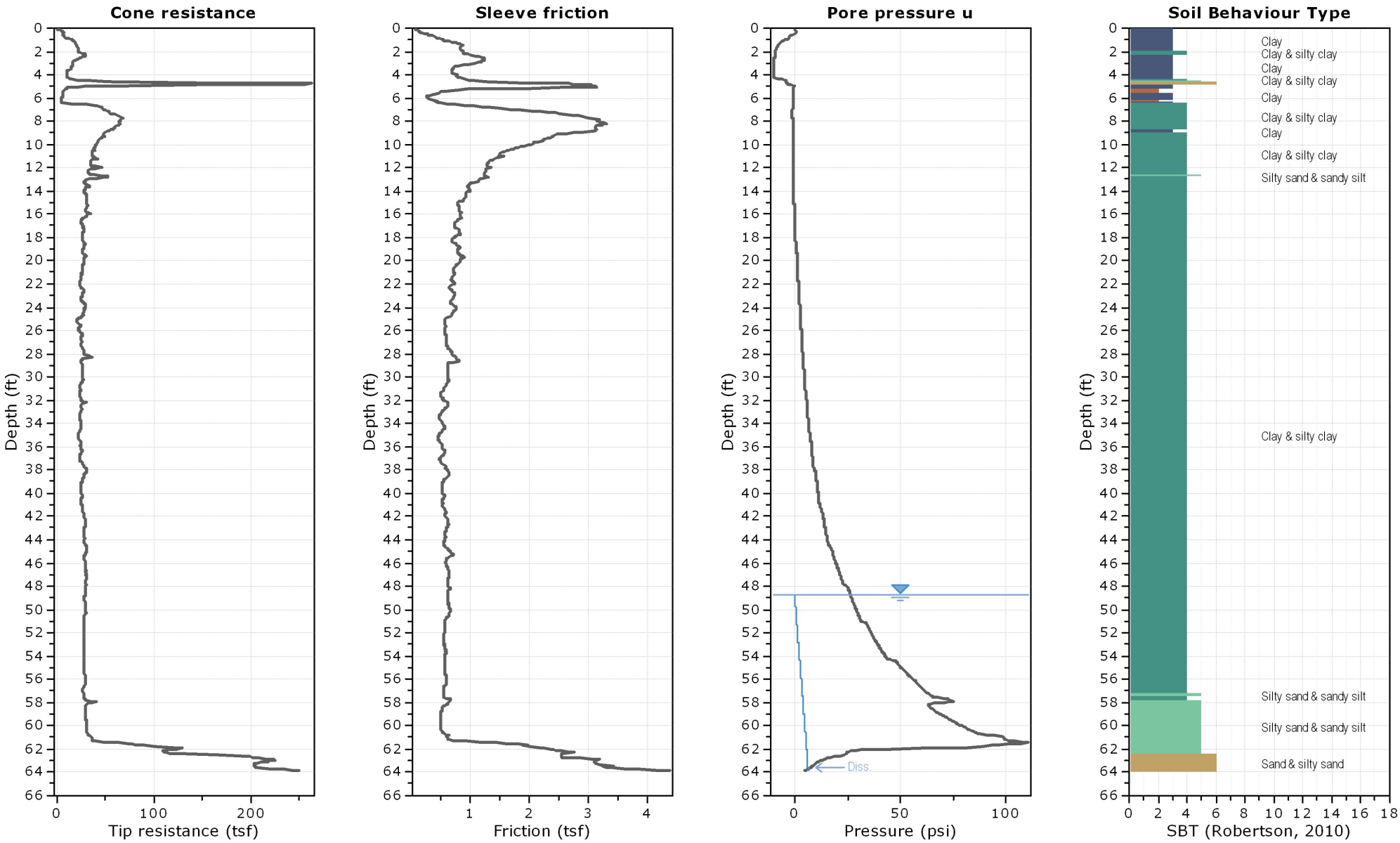
Non-normalized CPT Soil Behavior Type (SBT) chart

Robertson, P.K. and Cabal, K.L, 2016. *Guide to Cone Penetration Testing for Geotechnical Engineering, 6th Edition*. Signal Hill, California: 34.
http://www.greggdrilling.com/wp-content/uploads/2017/07/CPT-Guide-6th-Edition-2016.pdf
Accessed May 21, 2019.

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

CPT: C-007-1-21
Total depth: 63.87 ft, Date: 3/9/2021
Surface Elevation: 826.13 ft
Coords: lat 41.088093° lon -83.661145°

Project: **HAN-IR75-CR99**
Location: **Hancock County**



Dissipation Tests Results

Dissipation tests

Dissipation tests consists of stopping the piezocone penetration and observing porepressures (u) with elapsed time (t). The data are automatic recorded by the field computer and should take place until a minimum of 50% dissipation.

The porepressures are plotted as a function of square root of (t). The graphical technique suggested by Robertson and Campanella (1989), yields a value for t_{50}, which corresponds to the time for 50% consolidation.

The value of the coefficient of consolidation in the radial or horizontal direction c_h was then calculated by Houlsby and Teh's (1988) theory using the following equation:

$$c_h = \frac{T \times r^2 \times I_r^{0.5}}{t_{50}}$$

where:

T: time factor given by Houlsby and Teh's (1988) theory corresponding to the porepressure position
r: piezocone radius
I_r: stiffness index, equal to shear modulus G divided by the undrained strength of clay (S_u).
t_{50}: time corresponding to 50% consolidation

Permeability estimates based on dissipation test

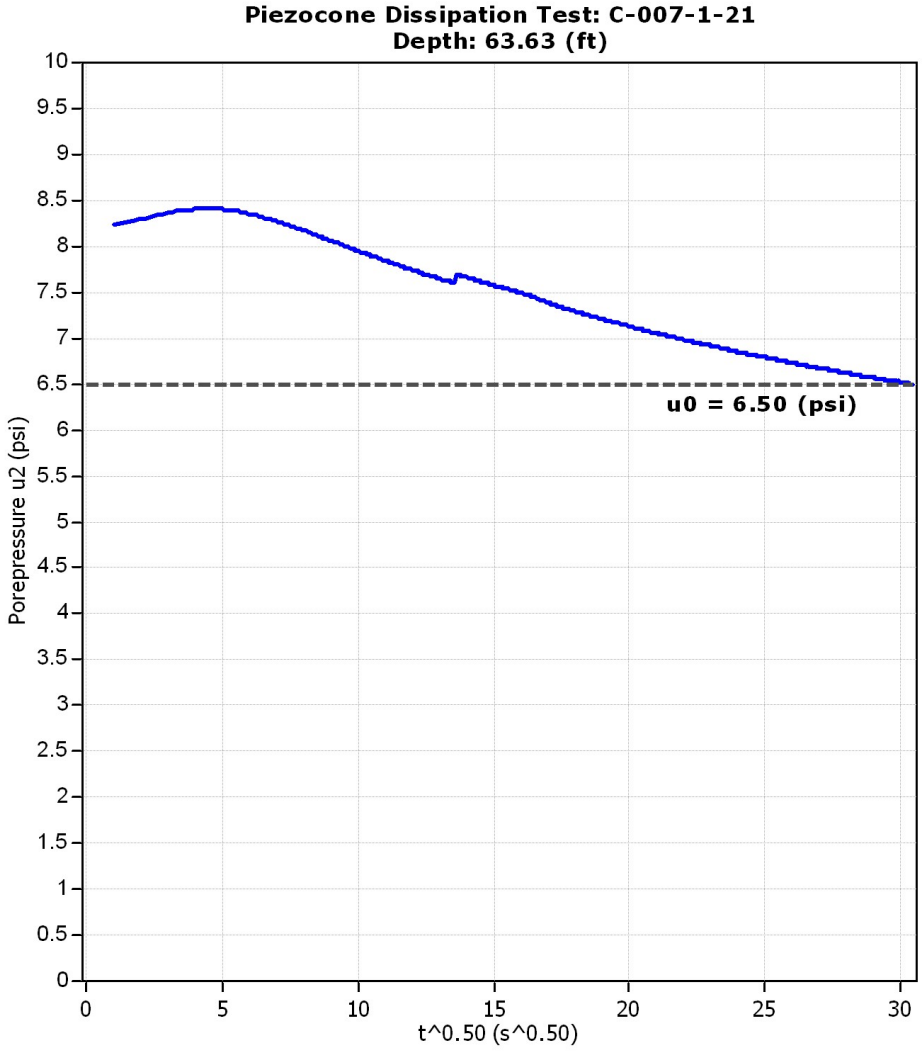
The dissipation of pore pressures during a CPTu dissipation test is controlled by the coefficient of consolidation in the horizontal direction (c_h) which is influenced by a combination of the soil permeability (k_h) and compressibility (M), as defined by the following:

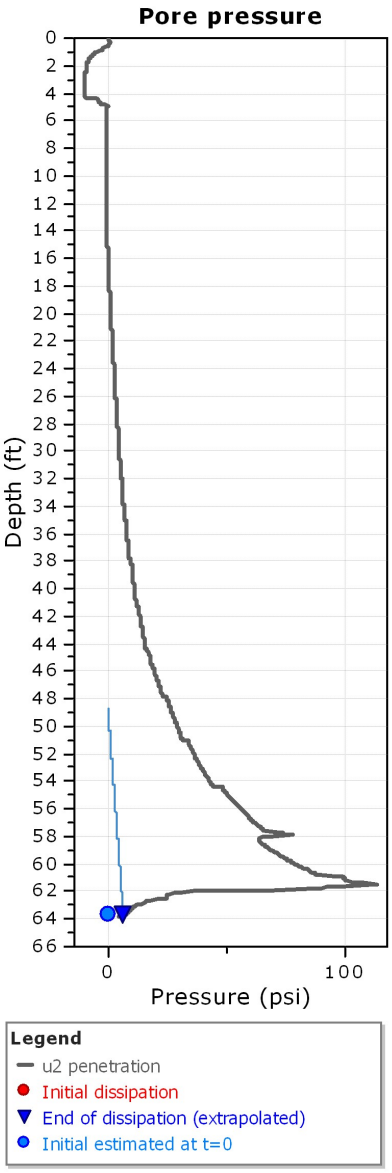
$$k_h = c_h \times \gamma_w / M$$

where: M is the 1-D constrained modulus and γ_w is the unit weight of water, in compatible units.

Tabular results

CPTU Borehole	Depth (ft)	$(t_{50})^{0.50}$	t_{50} (s)	t_{50} (years)	G/S_u	c_h (ft^2/s)	c_h (ft^2/year)	M (tsf)	k_h (ft/s)
C-007-1-21	63.63	0.0	0	0.00E+000	100.00	0.00E+000	0	2212.15	-1.00E+004

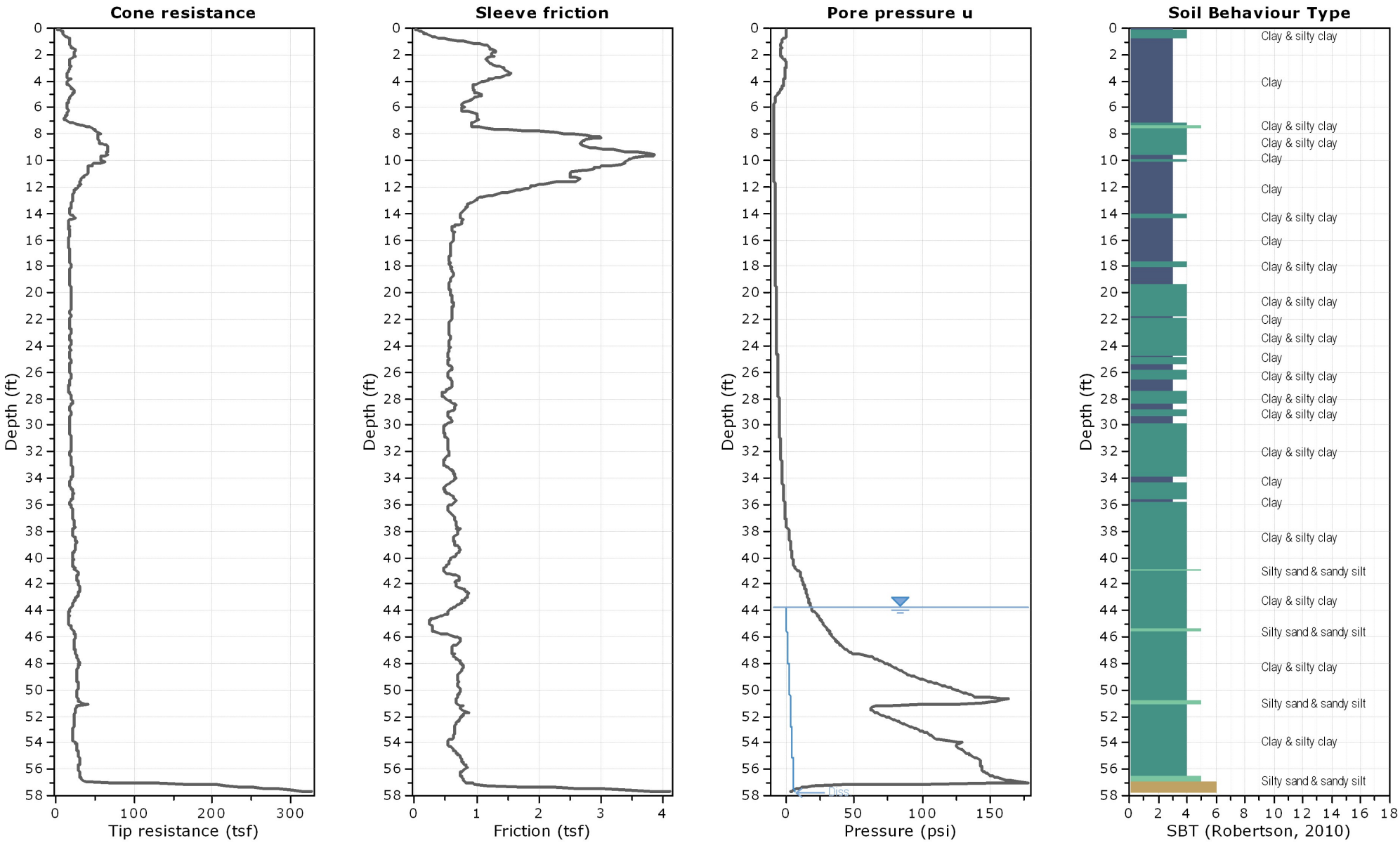

Piezocone Dissipation Test: C-007-1-21
Depth: 63.63 (ft)
u0 = 6.50 (psi)
Porepressure u2 (psi)
t^0.50 (s^0.50)


Pore pressure
Depth (ft)
Pressure (psi)
Legend
u2 penetration
Initial dissipation
End of dissipation (extrapolated)
Initial estimated at t=0

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

CPT: C-015-1-21
Total depth: 57.71 ft, Date: 3/9/2021
Surface Elevation: 830.11 ft
Coords: lat 41.087679° lon -83.660307°

Project: **HAN-IR75-CR99**
Location: **Hancock County**



Dissipation Tests Results

Dissipation tests

Dissipation tests consists of stopping the piezocone penetration and observing porepressures (u) with elapsed time (t). The data are automatic recorded by the field computer and should take place until a minimum of 50% dissipation.

The porepressures are plotted as a function of square root of (t). The graphical technique suggested by Robertson and Campanella (1989), yields a value for t_{50}, which corresponds to the time for 50% consolidation.

The value of the coefficient of consolidation in the radial or horizontal direction c_h was then calculated by Houlsby and Teh's (1988) theory using the following equation:

$$c_h = \frac{T \times r^2 \times I_r^{0.5}}{t_{50}}$$

where:

T: time factor given by Houlsby and Teh's (1988) theory corresponding to the porepressure position
r: piezocone radius
I_r: stiffness index, equal to shear modulus G divided by the undrained strength of clay (S_u).
t_{50}: time corresponding to 50% consolidation

Permeability estimates based on dissipation test

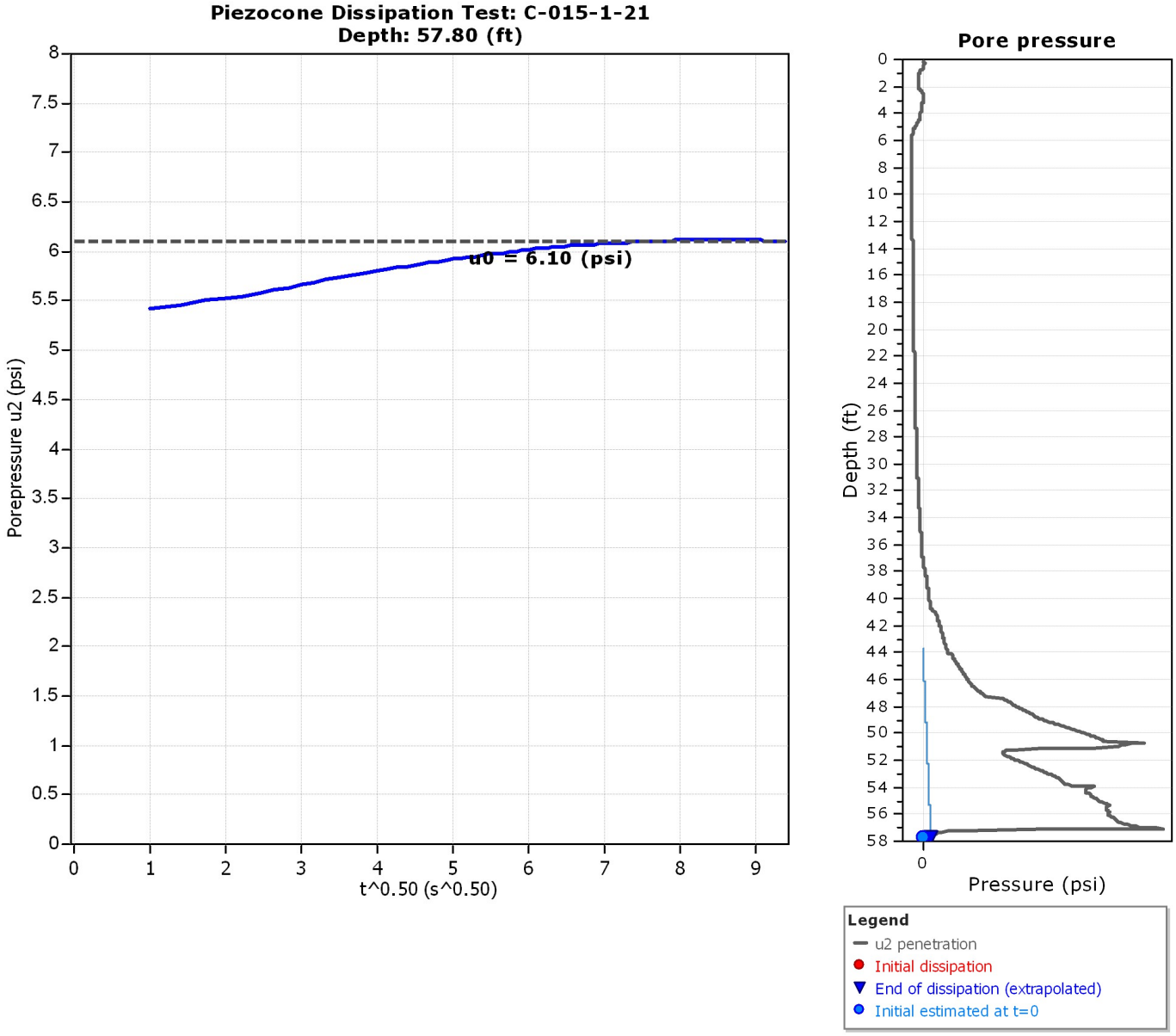
The dissipation of pore pressures during a CPTu dissipation test is controlled by the coefficient of consolidation in the horizontal direction (c_h) which is influenced by a combination of the soil permeability (k_h) and compressibility (M), as defined by the following:

$$k_h = c_h \times \gamma_w / M$$

where: M is the 1-D constrained modulus and γ_w is the unit weight of water, in compatible units.

Tabular results

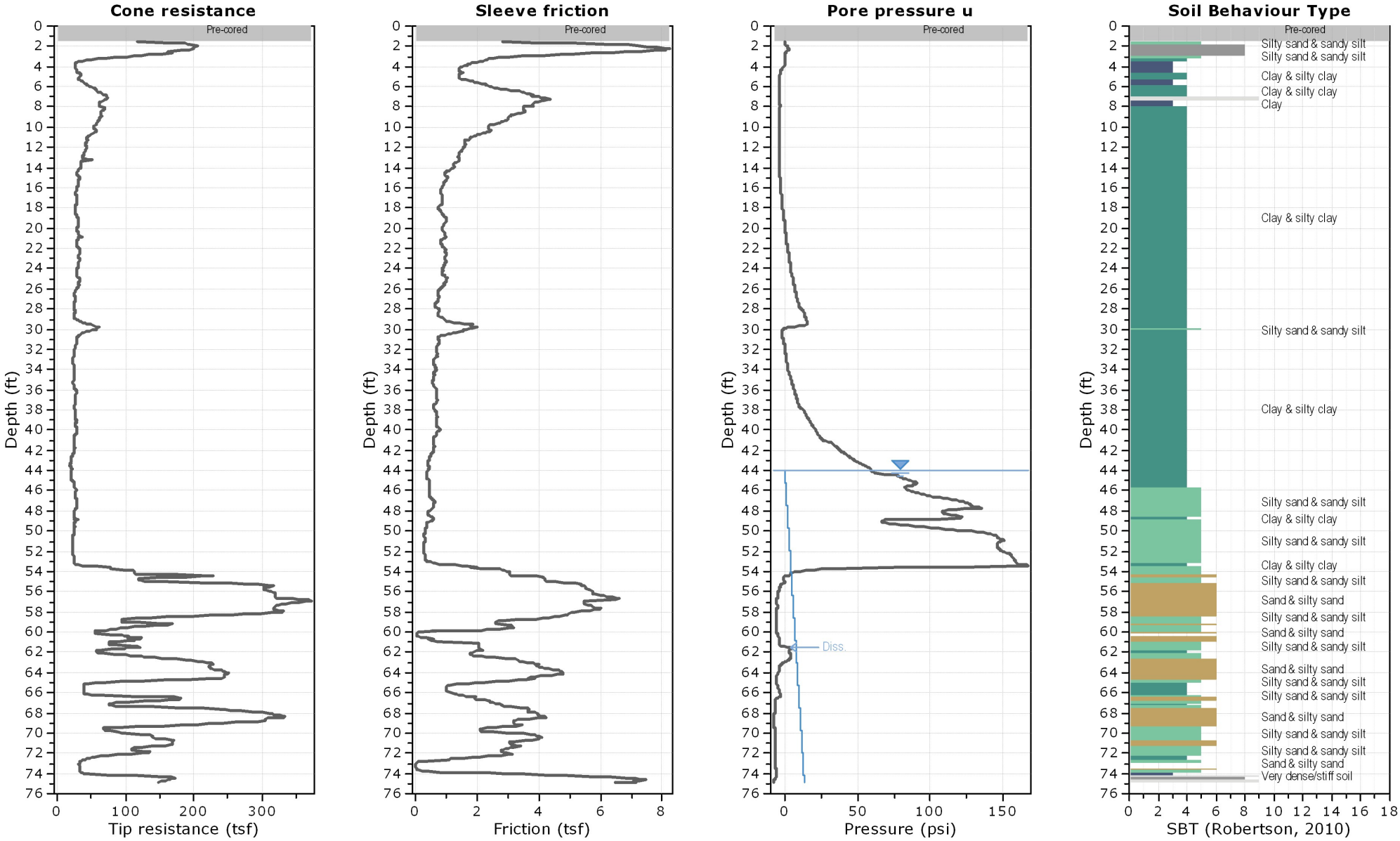
CPTU Borehole	Depth (ft)	$(t_{50})^{0.50}$	t_{50} (s)	t_{50} (years)	G/S_u	c_h (ft²/s)	c_h (ft²/year)	M (tsf)	k_h (ft/s)
C-015-1-21	57.80	0.0	0	0.00E+000	100.00	0.00E+000	0	2420.88	-1.00E+004


Piezocone Dissipation Test: C-015-1-21
Depth: 57.80 (ft)
u0 = 6.10 (psi)
Porepressure u2 (psi)
t^0.50 (s^0.50)
Pore pressure
Depth (ft)
Pressure (psi)
Legend
u2 penetration
Initial dissipation
End of dissipation (extrapolated)
Initial estimated at t=0

Office of Geotechnical Engineering
Geology, Exploration and, Laboratory Section
http://www.dot.state.oh.us/Divisions/Engineering/Geotechnical

CPT: C-016-0-21
Total depth: 74.95 ft, Date: 3/10/2021
Surface Elevation: 828.02 ft
Coords: lat 41.087694° lon -83.659868°

Project: **HAN-IR75-CR99**
Location: **Hancock County**



Dissipation Tests Results

Dissipation tests

Dissipation tests consists of stopping the piezocone penetration and observing porepressures (u) with elapsed time (t). The data are automatic recorded by the field computer and should take place until a minimum of 50% dissipation.

The porepressures are plotted as a function of square root of (t). The graphical technique suggested by Robertson and Campanella (1989), yields a value for t_{50}, which corresponds to the time for 50% consolidation.

The value of the coefficient of consolidation in the radial or horizontal direction c_h was then calculated by Houlsby and Teh's (1988) theory using the following equation:

$$c_h = \frac{T \times r^2 \times I_r^{0.5}}{t_{50}}$$

where:

T: time factor given by Houlsby and Teh's (1988) theory corresponding to the porepressure position
r: piezocone radius
I_r: stiffness index, equal to shear modulus G divided by the undrained strength of clay (S_u).
t_{50}: time corresponding to 50% consolidation

Permeability estimates based on dissipation test

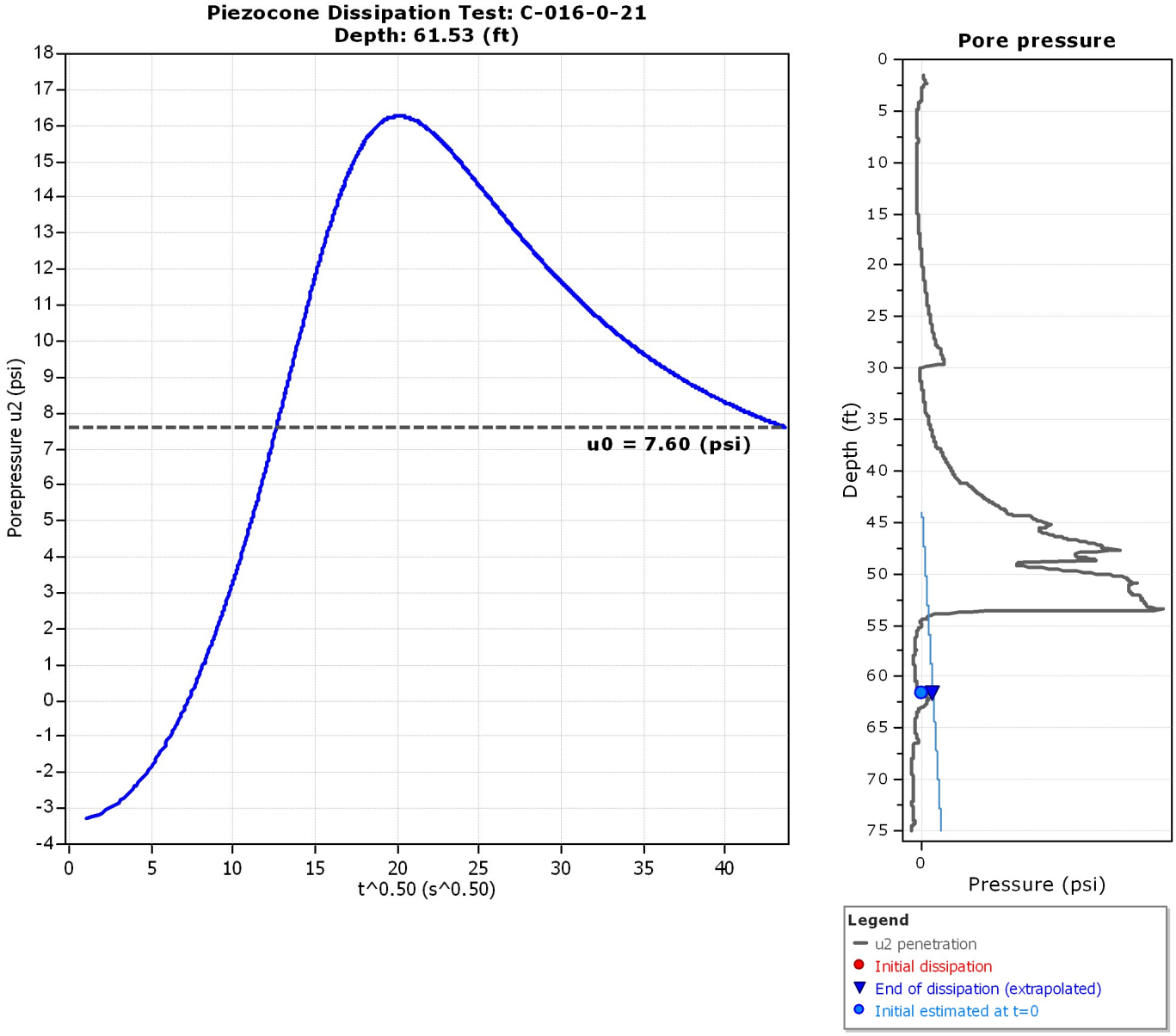
The dissipation of pore pressures during a CPTu dissipation test is controlled by the coefficient of consolidation in the horizontal direction (c_h) which is influenced by a combination of the soil permeability (k_h) and compressibility (M), as defined by the following:

$$k_h = c_h \times \gamma_w / M$$

where: M is the 1-D constrained modulus and γ_w is the unit weight of water, in compatible units.

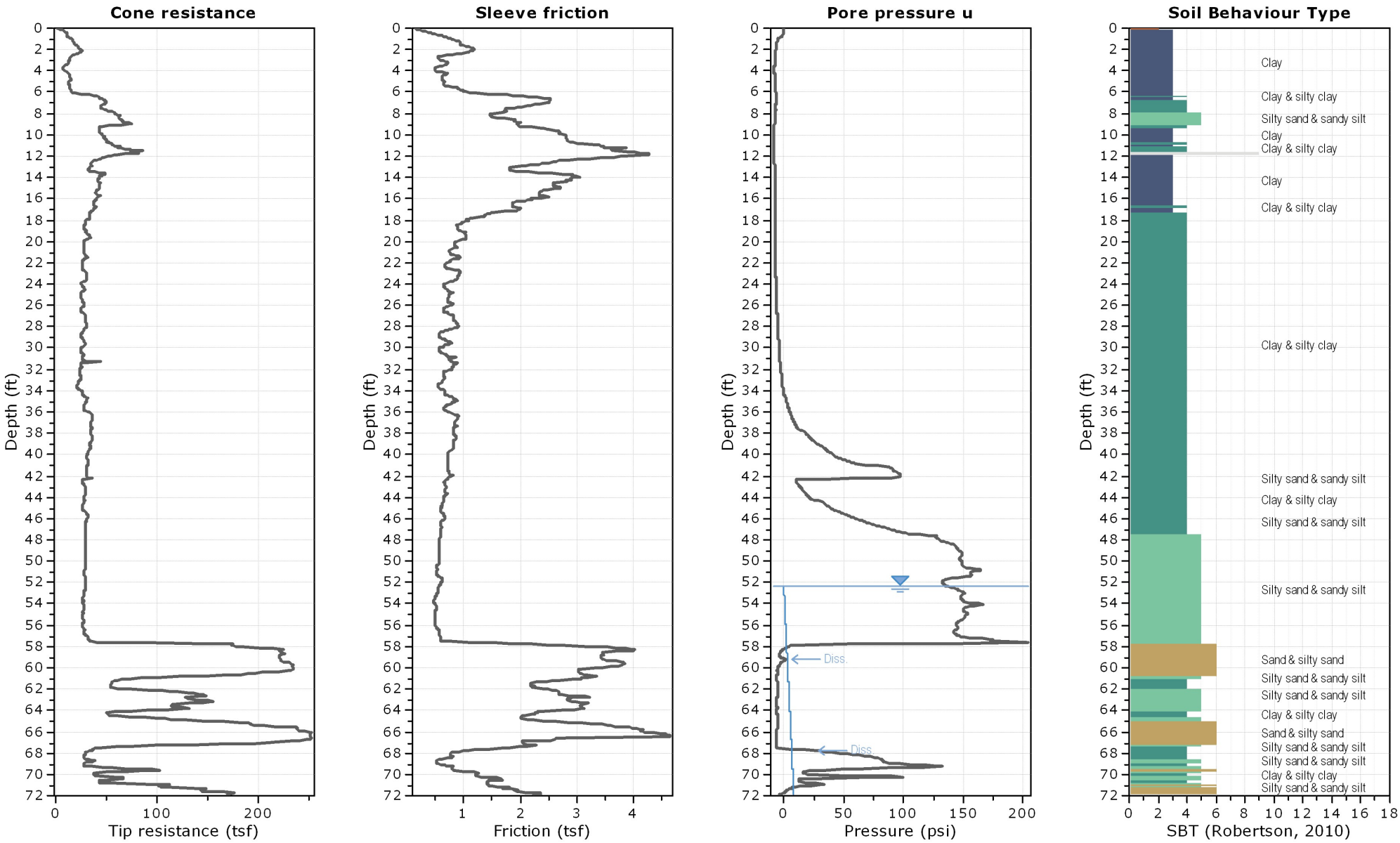
Tabular results

CPTU Borehole	Depth (ft)	$(t_{50})^{0.50}$	t_{50} (s)	t_{50} (years)	G/S_u	c_h (ft²/s)	c_h (ft²/year)	M (tsf)	k_h (ft/s)
C-016-0-21	61.53	0.0	0	0.00E+000	100.00	0.00E+000	0	1527.18	-1.00E+004


Piezocone Dissipation Test: C-016-0-21
Depth: 61.53 (ft)
Porepressure u2 (psi)
u0 = 7.60 (psi)
t^0.50 (s^0.50)
Pore pressure
Depth (ft)
Pressure (psi)
Legend
u2 penetration
Initial dissipation
End of dissipation (extrapolated)
Initial estimated at t=0

CPT: C-017-1-21
Total depth: 71.92 ft, Date: 3/9/2021
Surface Elevation: 830.37 ft
Coords: lat 41.087665° lon -83.659431°

Project: **HAN-IR75-CR99**
Location: **Hancock County**



Dissipation Tests Results

Dissipation tests

Dissipation tests consists of stopping the piezocone penetration and observing porepressures (u) with elapsed time (t). The data are automatic recorded by the field computer and should take place until a minimum of 50% dissipation.

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$$c_h = \frac{T \times r^2 \times I_r^{0.5}}{t_{50}}$$

where:

T: time factor given by Houlsby and Teh's (1988) theory corresponding to the porepressure position
r: piezocone radius
I_r: stiffness index, equal to shear modulus G divided by the undrained strength of clay (S_u).
t_{50}: time corresponding to 50% consolidation

Permeability estimates based on dissipation test

The dissipation of pore pressures during a CPTu dissipation test is controlled by the coefficient of consolidation in the horizontal direction (c_h) which is influenced by a combination of the soil permeability (k_h) and compressibility (M), as defined by the following:

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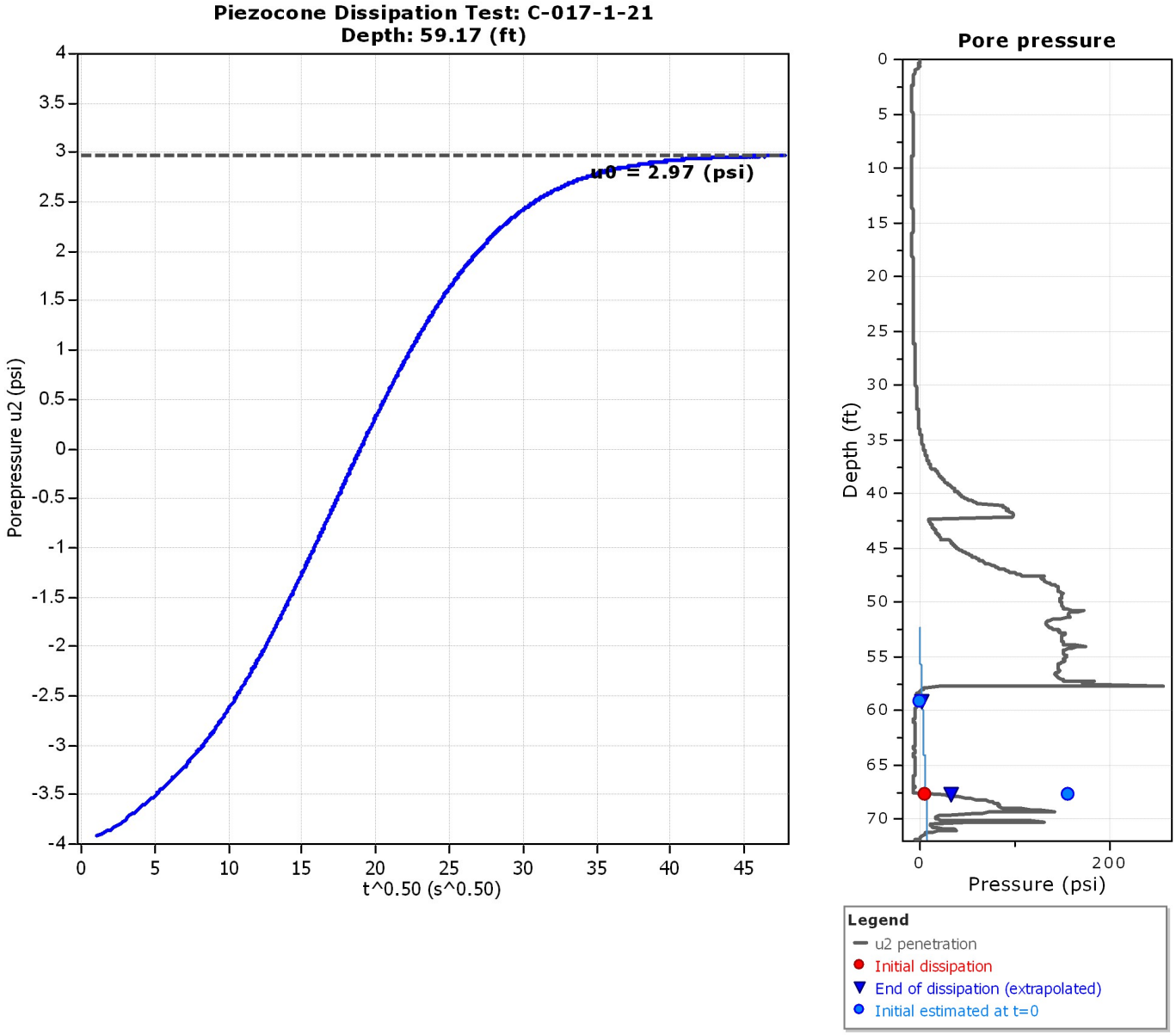
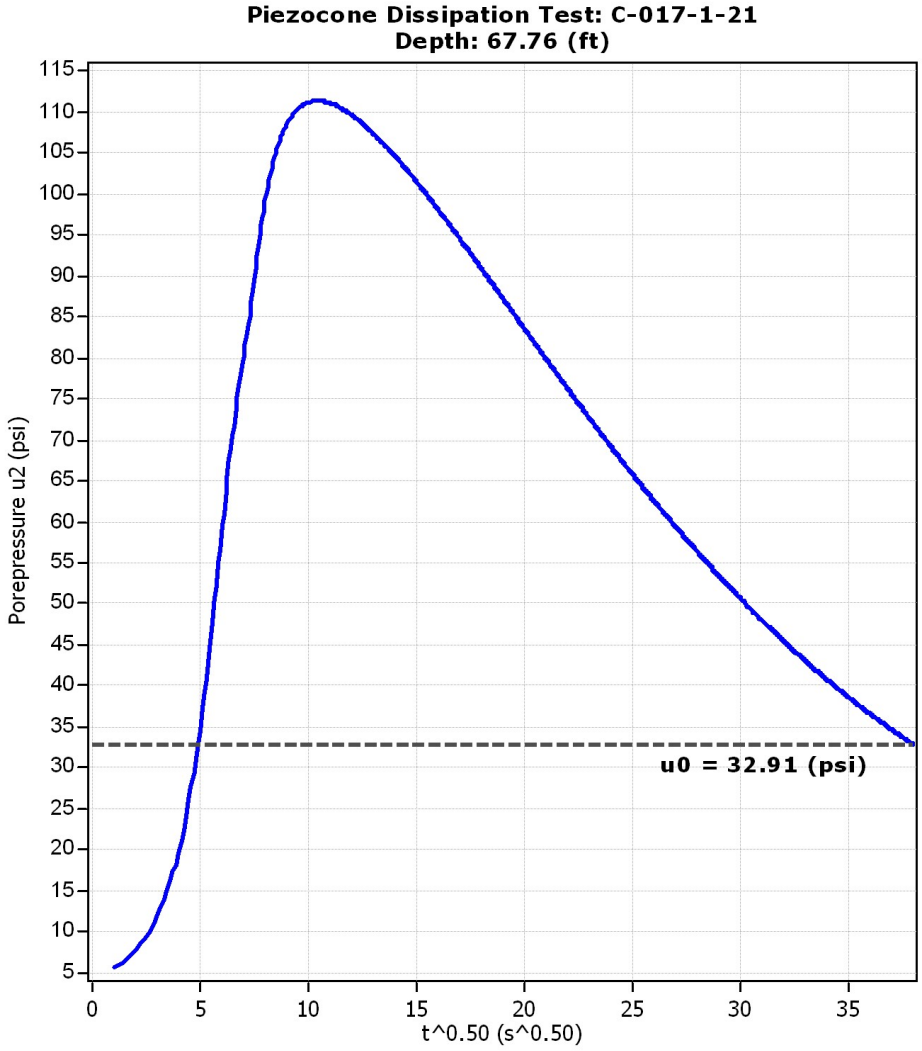
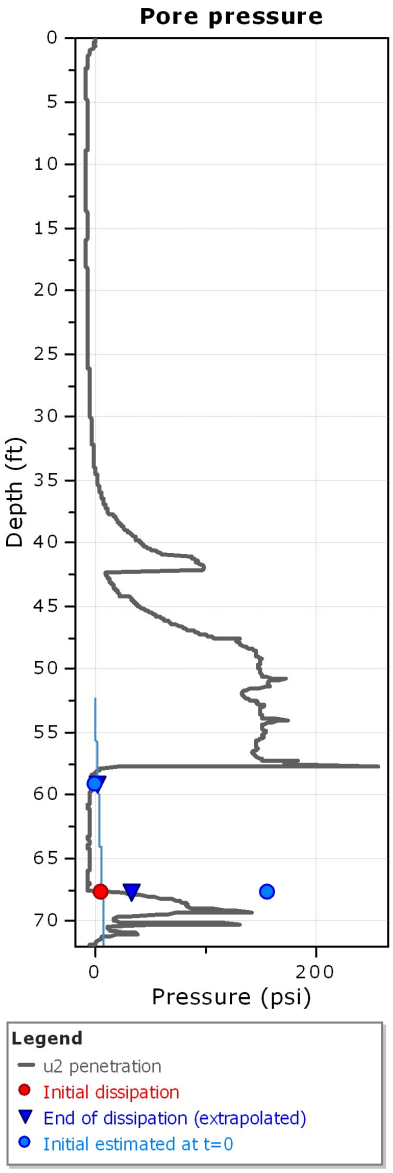
where: M is the 1-D constrained modulus and γ_w is the unit weight of water, in compatible units.

Tabular results

CPTU Borehole	Depth (ft)	$(t_{50})^{0.50}$	t_{50} (s)	t_{50} (years)	G/S_u	c_h (ft²/s)	c_h (ft²/year)	M (tsf)	k_h (ft/s)
C-017-1-21	59.17	0.0	0	0.00E+000	100.00	0.00E+000	0	2207.69	-1.00E+004
C-017-1-21	67.76	17.0	288	9.12E-006	471583.56	3.01E-003	94797	441.95	2.12E-007


Piezocone Dissipation Test: C-017-1-21
Depth: 59.17 (ft)
u0 = 2.97 (psi)
Porepressure u2 (psi)
t^0.50 (s^0.50)
Pore pressure
Depth (ft)
Pressure (psi)
Legend
u2 penetration
Initial dissipation
End of dissipation (extrapolated)
Initial estimated at t=0


Piezocone Dissipation Test: C-017-1-21
Depth: 67.76 (ft)
Porepressure u2 (psi)
t^0.50 (s^0.50)
u0 = 32.91 (psi)


Pore pressure
Depth (ft)
Pressure (psi)
Legend
u2 penetration
Initial dissipation
End of dissipation (extrapolated)
Initial estimated at t=0

UNCONFINED COMPRESSION TEST
AASHTO T - 208

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

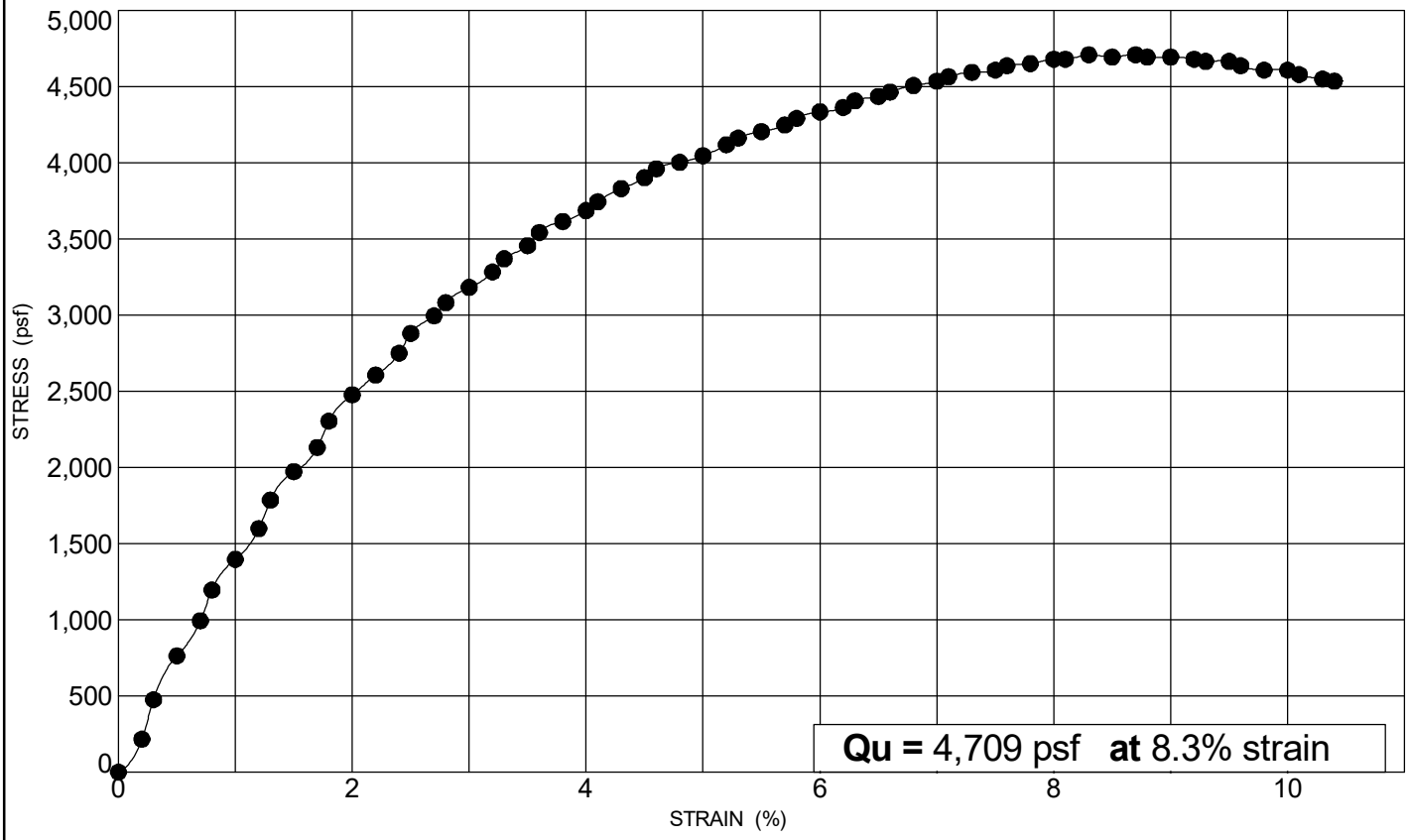
PROJECT HAN-75/CR99 **PID** 102375

OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-007-2-21 SAMPLE ID: ST-3

STATION: 81+22, 78' RT. DEPTH: 7.3 - 7.8 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS

FRONT VIEW

SIDE VIEW

SPECIMEN DETAILS

HEIGHT: 5.74 inches

DIAMETER: 2.86 inches

WET UNIT WT: 132.46 pcf

DRY UNIT WT: 111.29 pcf

TESTED BY: AW 3/5/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
8	6	12	31	43

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
31	18	13	18

ODOT CLASS: A-6a HP (tsf): 3.00

DESCRIPTION: Very Stiff, Brown, **SILT AND CLAY**, Little Sand, Trace Gravel, Moist

OHDOT UNCONFINED COMPRESSION - OH DOT.GDT - 4/27/21 14:02 - X:\GINT\PROJECTS\600827.GPJ

UNCONFINED COMPRESSION TEST
AASHTO T - 208

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

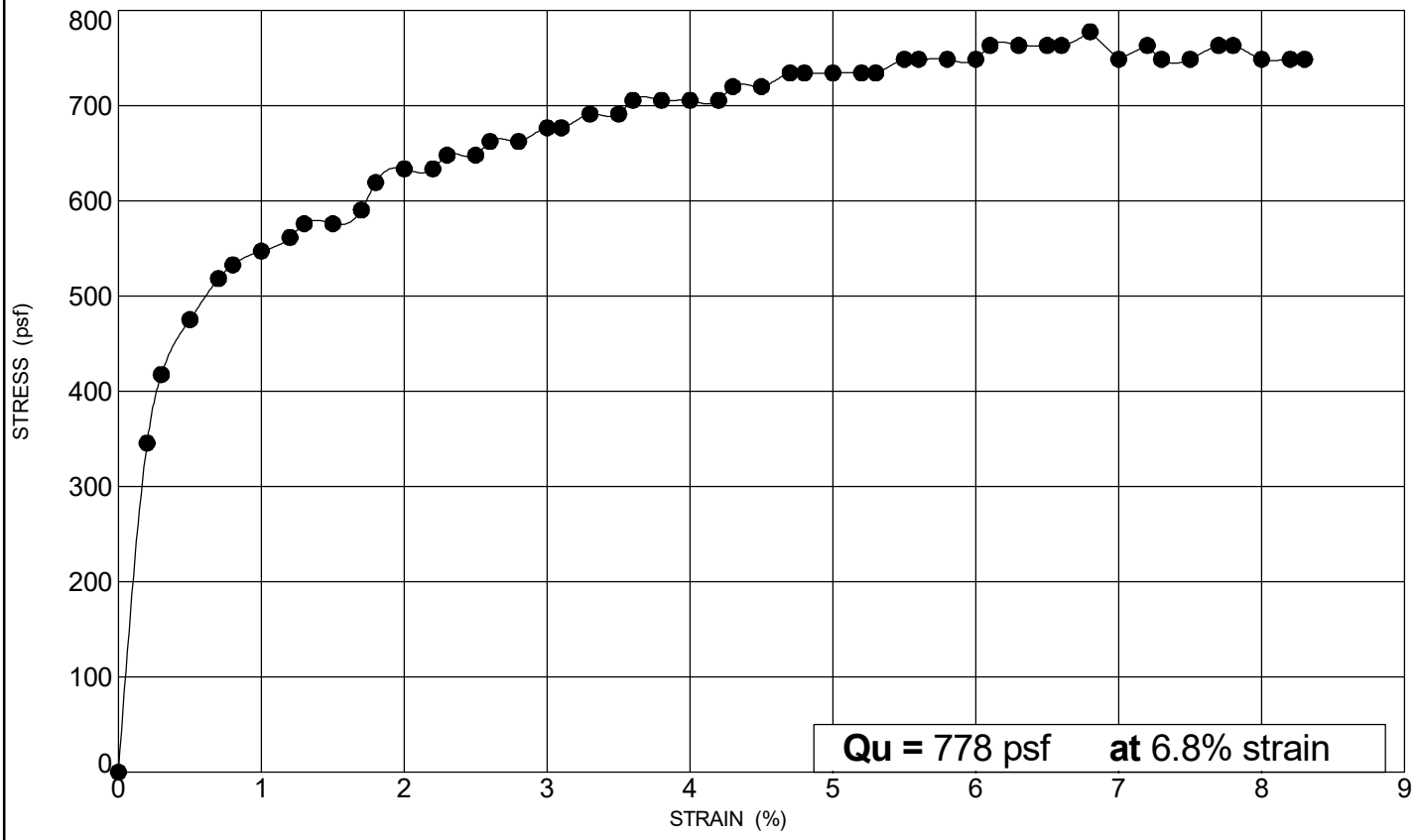
PROJECT HAN-75/CR99 **PID** 102375

OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-008-2-21 SAMPLE ID: ST-3a

STATION: 189+67, 57' RT. DEPTH: 6.25 - 6.75 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS

FRONT VIEW

SIDE VIEW

SPECIMEN DETAILS

HEIGHT: 5.75 inches

DIAMETER: 2.87 inches

WET UNIT WT: 122.19 pcf

DRY UNIT WT: 95.61 pcf

TESTED BY: AW 3/5/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
0	1	2	38	59

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
46	20	26	23

ODOT CLASS: A-7-6 HP (tsf): 4.5+

DESCRIPTION: Soft, Brown, **CLAY**, "and" Silt, Trace Sand, Damp

OHDOT UNCONFINED COMPRESSION - OH DOT.GDT - 4/27/21 14:04 - X:\GINT\PROJECTS\600827.GPJ

UNCONFINED COMPRESSION TEST
AASHTO T - 208

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

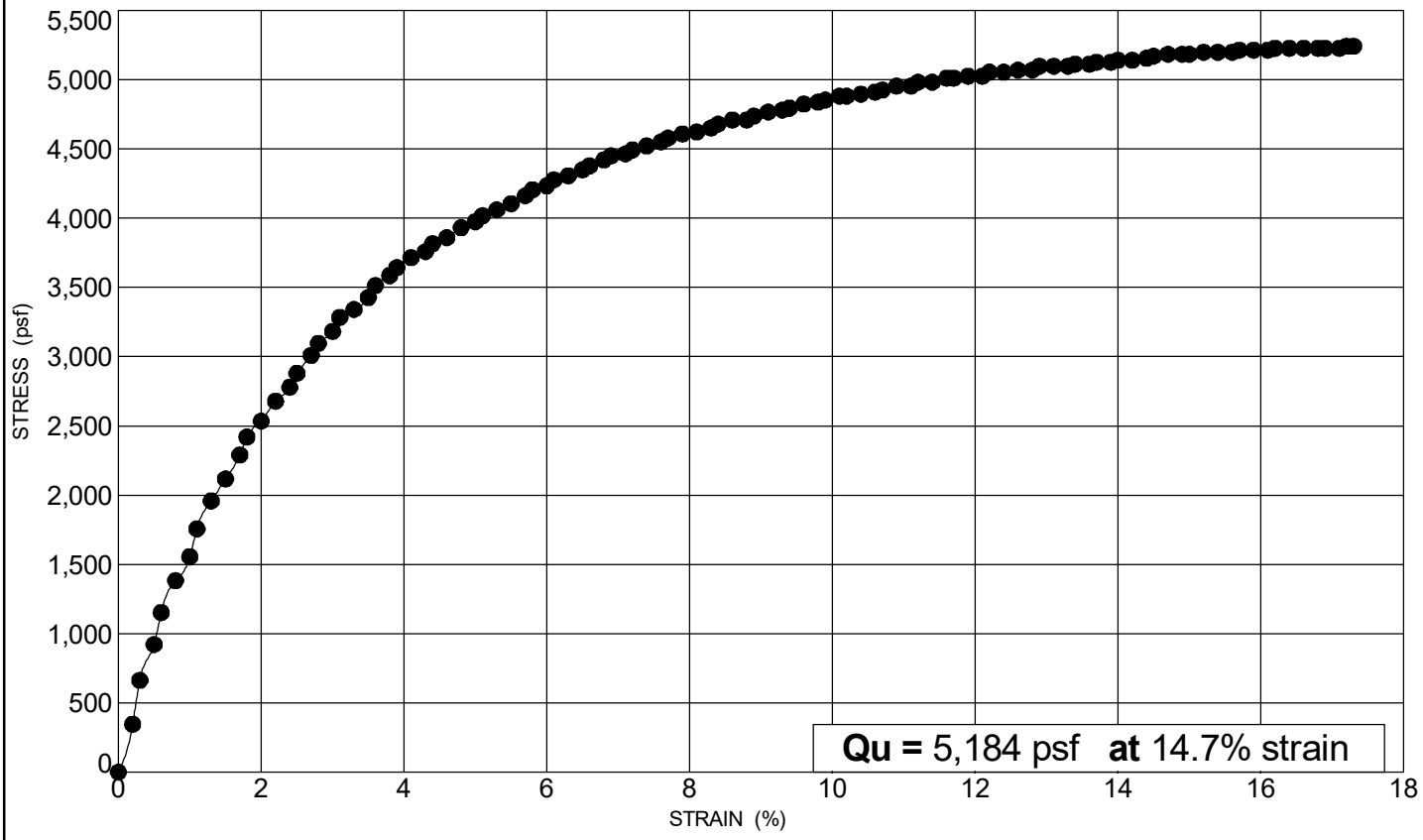
PROJECT HAN-75/CR99 **PID** 102375

OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-015-0-21 SAMPLE ID: ST-10

STATION: 283+82, 4' RT. DEPTH: 22.0 - 22.5 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS

FRONT VIEW

SIDE VIEW

SPECIMEN DETAILS

HEIGHT: 5.77 inches

DIAMETER: 2.86 inches

WET UNIT WT: 133.15 pcf

DRY UNIT WT: 112.55 pcf

TESTED BY: AW 2/22/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
5	5	11	31	48

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
29	15	14	19

ODOT CLASS: A-6a HP (tsf): 2.75

DESCRIPTION: Very Stiff, Gray, **SILT AND CLAY**, Little Sand, Trace Gravel, Moist

OHDOT UNCONFINED COMPRESSION - OH DOT.GDT - 4/27/21 14:06 - X:\GINT\PROJECTS\600827.GPJ

UNCONFINED COMPRESSION TEST
AASHTO T - 208

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

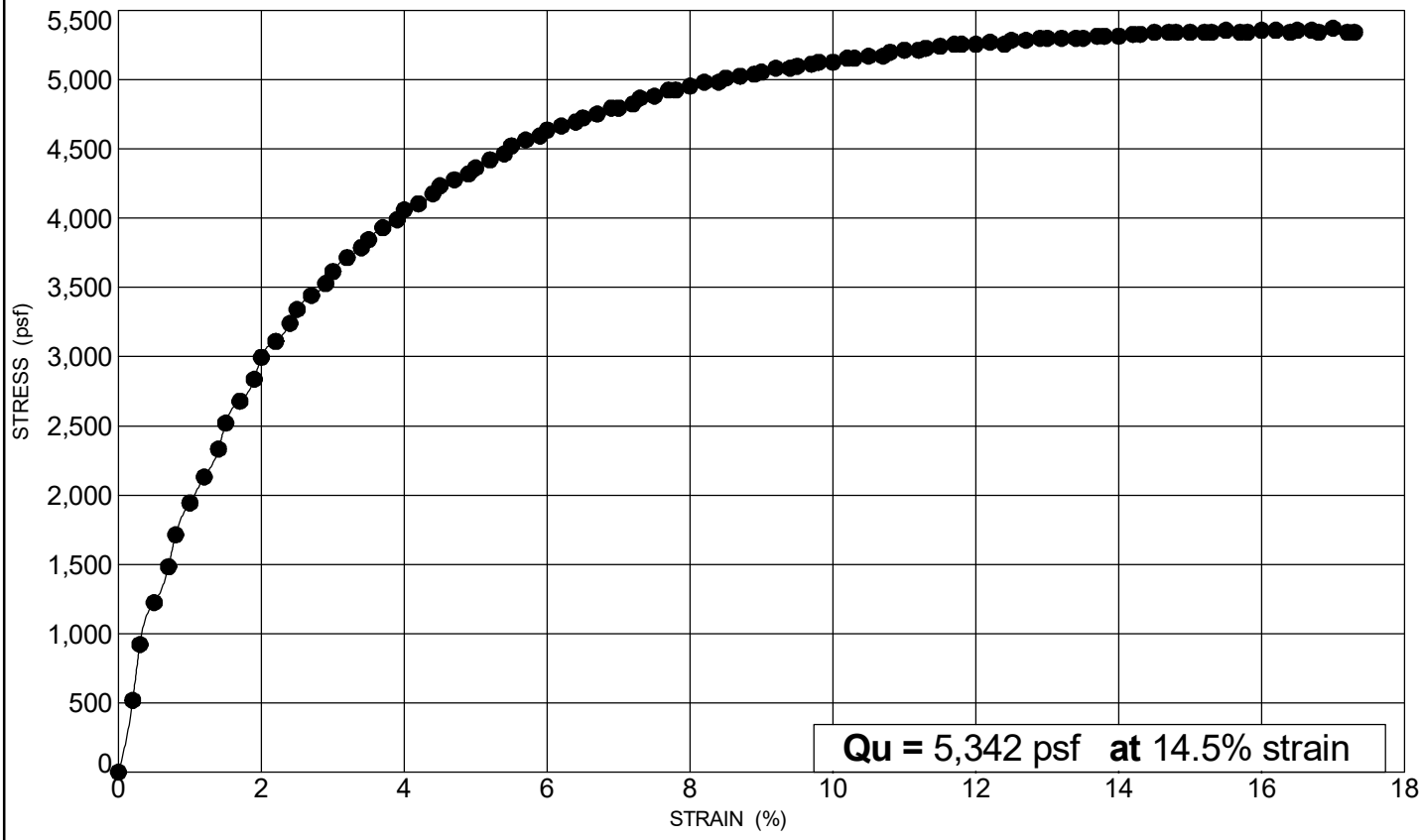
PROJECT HAN-75/CR99 **PID** 102375

OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-015-0-21 SAMPLE ID: ST-13

STATION: 283+82, 4' RT. DEPTH: 29.5 - 30.0 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS

FRONT VIEW

SIDE VIEW

SPECIMEN DETAILS

HEIGHT: 5.75 inches

DIAMETER: 2.85 inches

WET UNIT WT: 134.19 pcf

DRY UNIT WT: 113.07 pcf

TESTED BY: AW 2/22/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
6	5	10	30	49

ATTERBERG LIMITS MOISTURE

LL	PL	PI	WC
28	16	12	19

ODOT CLASS: A-6a HP (tsf): 2.50

DESCRIPTION: Very Stiff, Gray, **SILT AND CLAY**, Little Sand, Trace Gravel, Moist

OHDOT UNCONFINED COMPRESSION - OH DOT.GDT - 4/27/21 14:07 - X:\GINT\PROJECTS\600827.GPJ

UNCONFINED COMPRESSION TEST
AASHTO T - 208

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

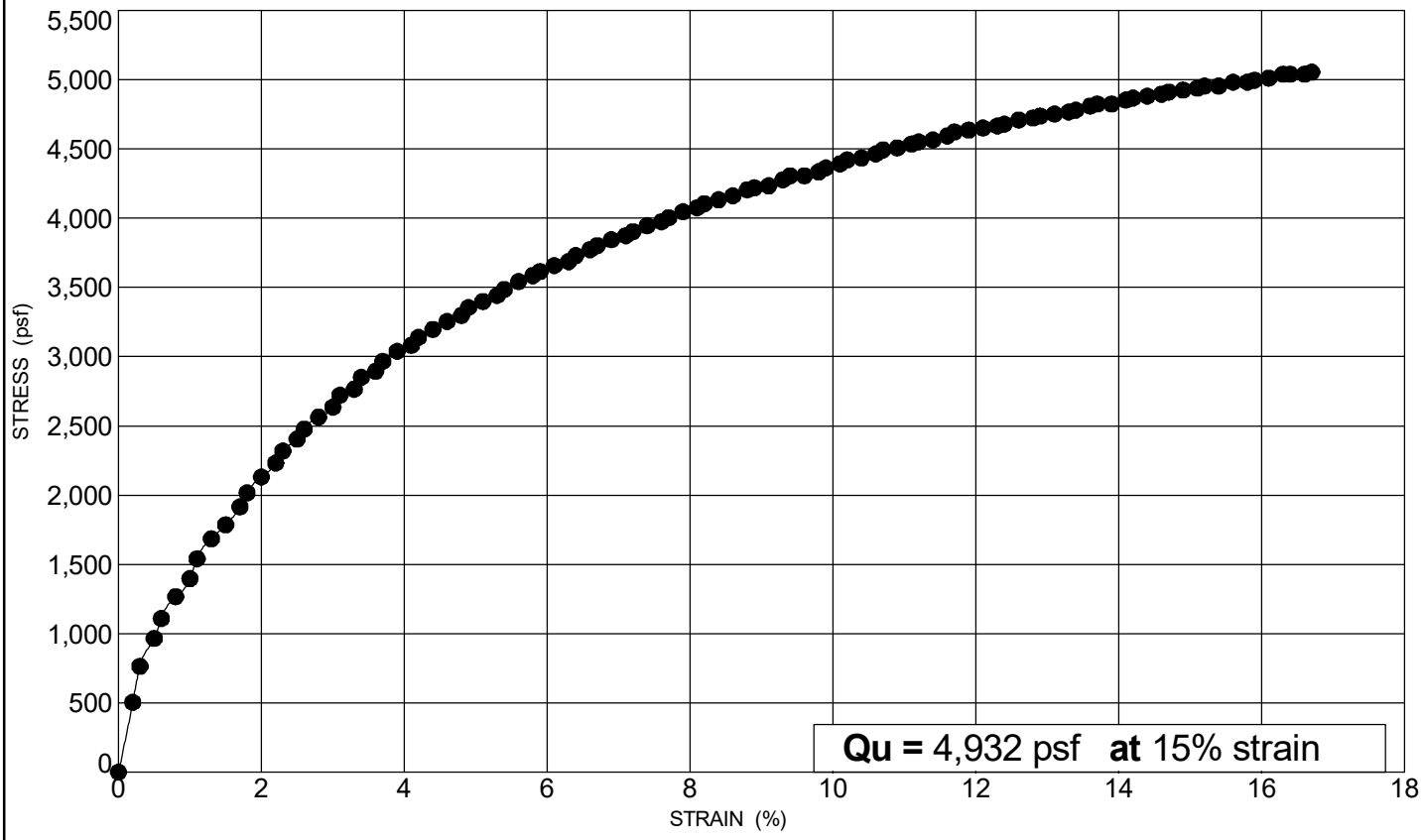
PROJECT HAN-75/CR99 **PID** 102375

OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-020-0-21 SAMPLE ID: ST-4

STATION: 412+47, 19' RT. DEPTH: 9.7 - 10.2 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS

FRONT VIEW

SIDE VIEW

SPECIMEN DETAILS

HEIGHT: 5.75 inches

DIAMETER: 2.86 inches

WET UNIT WT: 134.79 pcf

DRY UNIT WT: 114.48 pcf

TESTED BY: AW 3/5/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
4	6	12	32	46

ATTERBERG LIMITS / MOISTURE

LL	PL	PI	WC
28	16	12	28

ODOT CLASS: A-6a HP (tsf): 2.00

DESCRIPTION: Very Stiff, Gray, **SILT AND CLAY**, Little Sand, Trace Gravel, Wet

OHDOT UNCONFINED COMPRESSION - OH DOT.GDT - 4/27/21 14:08 - X:\GINT\PROJECTS\600827.GPJ

UNCONFINED COMPRESSION TEST
AASHTO T - 208

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

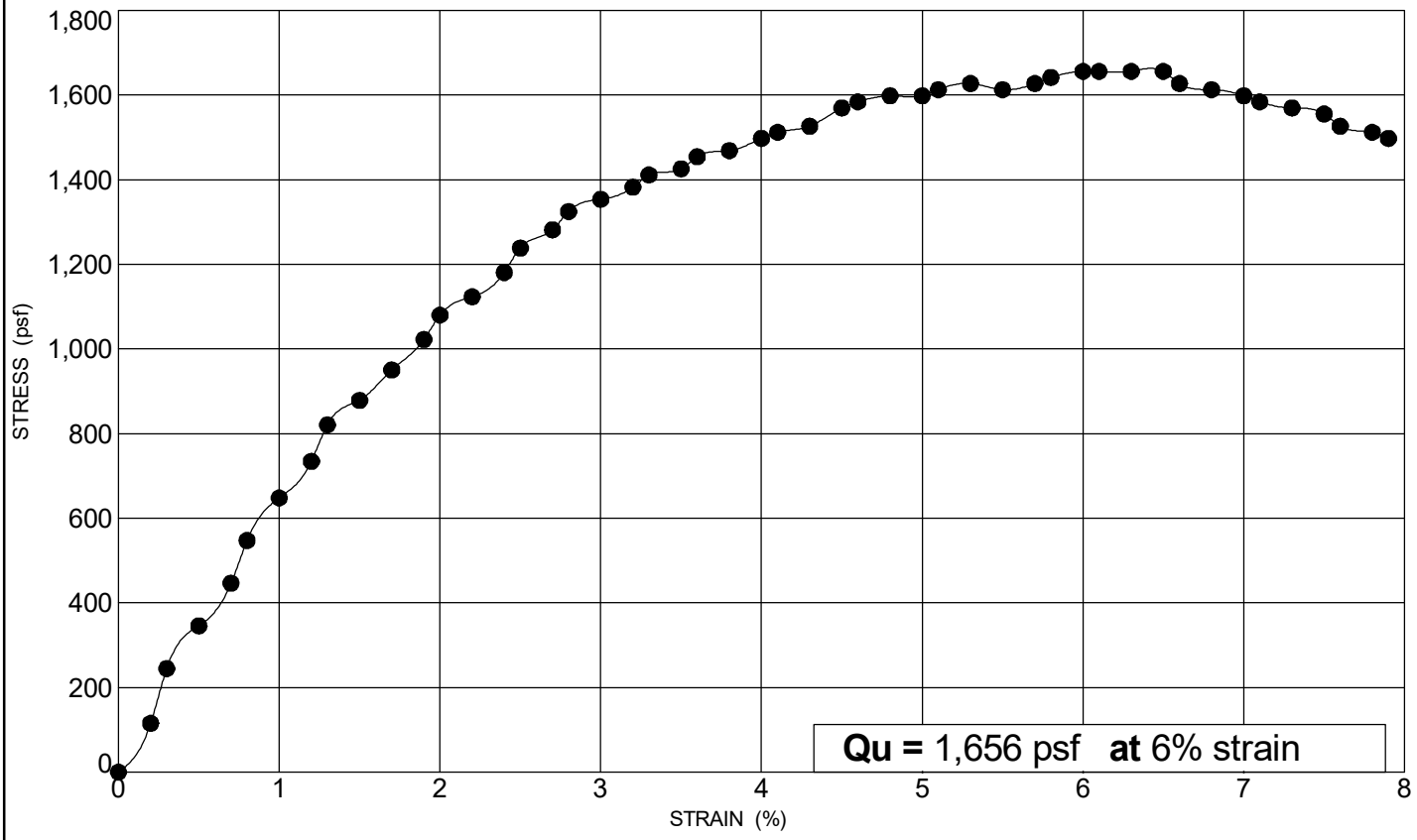
PROJECT HAN-75/CR99 **PID** 102375

OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-023-0-21 SAMPLE ID: ST-3

STATION: 511+92, 23' RT. DEPTH: 6.9 - 7.4 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS

FRONT VIEW

SIDE VIEW

SPECIMEN DETAILS

HEIGHT: 5.75 inches

DIAMETER: 2.85 inches

WET UNIT WT: 129.06 pcf

DRY UNIT WT: 106.19 pcf

TESTED BY: AW 3/5/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
1	7	25	38	29

ATTERBERG LIMITS / MOISTURE

LL	PL	PI	WC
26	14	12	18

ODOT CLASS: A-6a HP (tsf): 4.00

DESCRIPTION: Medium Stiff, Grayish Brown, **SILT AND CLAY**, Some Sand, Trace Gravel, Moist

OHDOT UNCONFINED COMPRESSION - OH DOT.GDT - 4/27/21 14:10 - X:\GINT\PROJECTS\600827.GPJ

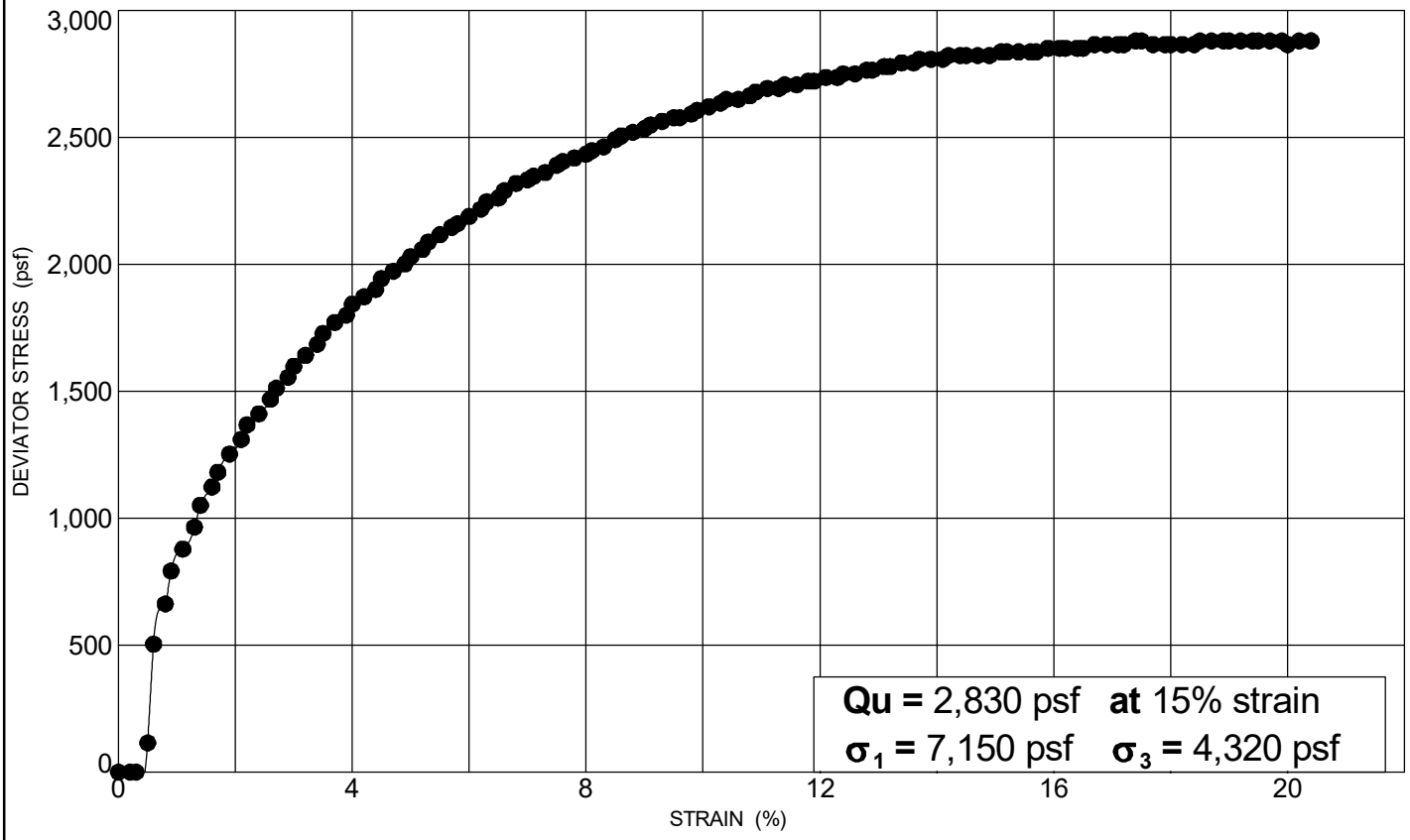
UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST
AASHTO T - 296

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT HAN-75/CR99 **PID** 102375
OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-017-0-21 SAMPLE ID: ST-13
STATION: 286+34, 5' RT. DEPTH: 30.0 - 30.4 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS


FRONT VIEW


SIDE VIEW

SPECIMEN DETAILS TYPE: Undisturbed

HEIGHT: 5.786 inches DIAMETER: 2.858 inches
WET UNIT WT: 134.80 pcf DRY UNIT WT: 116.10 pcf
SPECIFIC GRAVITY: 2.67 (Assumed)
NOTES:

TESTED BY: AW 3/16/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
6	5	10	29	50

ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
29	15	14	16

ODOT CLASS: A-6a HP (tsf): 2.50

DESCRIPTION: Stiff, Gray, **SILT AND CLAY**, Little Sand, Trace Gravel, Moist

OHDOT UU TRIAXIAL TEST - OH DOT.GDT - 4/27/21 13:38 - X:\GINT\PROJECTS\600827.GPJ

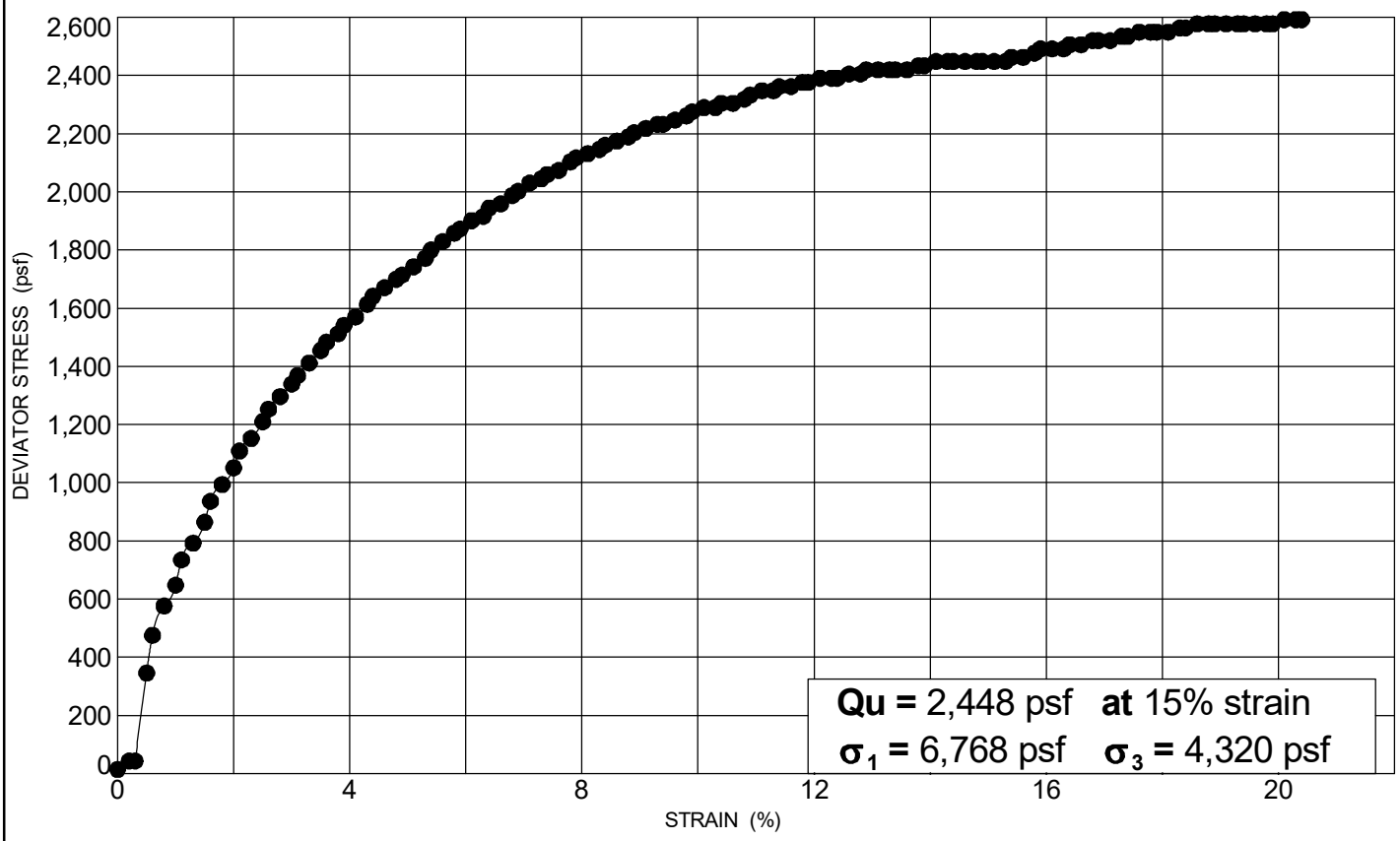
UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST
AASHTO T - 296

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

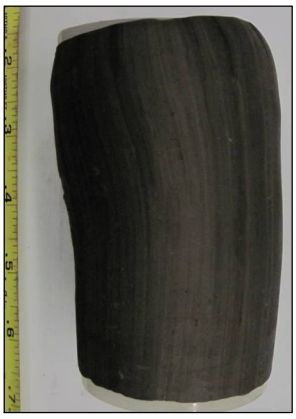
PROJECT HAN-75/CR99 **PID** 102375
OGE NUMBER 600827 **PROJECT TYPE** ROADWAY

SAMPLE IDENTIFICATION

BORING ID: B-017-0-21 SAMPLE ID: ST-15
STATION: 286+34, 5' RT. DEPTH: 36.8 - 37.3 feet



SPECIMEN FAILURE SKETCHES OR PHOTOGRAPHS


FRONT VIEW


SIDE VIEW

SPECIMEN DETAILS TYPE: Undisturbed

HEIGHT: 5.747 inches DIAMETER: 2.866 inches
WET UNIT WT: 133.90 pcf DRY UNIT WT: 113.60 pcf
SPECIFIC GRAVITY: 2.67 (Assumed)
NOTES:

TESTED BY: AW 3/16/2021

CLASSIFICATION RESULTS

GRADATION (%)

GR	CS	FS	SI	CL
13	4	10	26	47

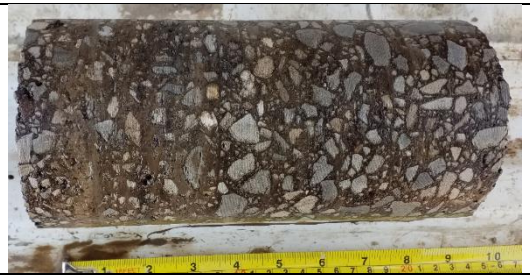
ATTERBERG LIMITS			MOISTURE
LL	PL	PI	WC
28	15	13	18

ODOT CLASS: A-6a HP (tsf): 3.00

DESCRIPTION: Stiff, Gray, **SILT AND CLAY**, Little Sand, Little Gravel, Moist

OHDOT UU TRIAXIAL TEST - OH DOT.GDT - 4/27/21 13:39 - X:\GINT\PROJECTS\600827.GPJ

HAN-75/CR-99 Interchange Project PID 102375
PAVEMENT CORE REPORT

Location	Position	Lat/Long	Pavement Thickness (in)	Core Photo	Comments
B-001-0-21	Driving Lane EB CR 99	41.087924, -83.668597	Asphalt 8.0		
B-002-0-21	Driving Lane WB CR 99	41.087816, -83.667478	Asphalt 10.0		
B-003-0-21	Passing Lane EB CR 99	41.087919, -83.666228	Asphalt 8.0		
B-004-0-21	Driving Lane WB CR 99	41.087813, -83.664939	Asphalt 9.0	No Photo	
B-005-0-20	Driving Lane EB CR 99	41.087917, -83.663590	Asphalt 8.0		

HAN-75/CR-99 Interchange Project PID 102375

PAVEMENT CORE REPORT

Location	Position	Lat/Long	Pavement Thickness (in)	Core Photo	Comments
B-006-0-20	Driving Lane WB CR 99	41.087813, -83.662309	Asphalt 8.0		
B-007-0-20	Driving Lane EB CR 99	41.087946, -83.661179	Asphalt 8.0		
B-008-0-20	Driving Lane EB CR 99	41.087938, -83.658521	Asphalt 10.0		
B-010-0-20	Driving Lane EB CR 99	41.087935, -83.655954	Asphalt 12.0		

HAN-75/CR-99 Interchange Project PID 102375
PAVEMENT CORE REPORT

Location	Position	Lat/Long	Pavement Thickness (in)	Core Photo	Comments
B-012-0-20	Driving Lane EB CR 99	41.087927, -83.653193	Asphalt 12.0		
B-013-0-20	Driving Lane EB CR 99	41.087922, -83.651809	Asphalt 12.0		
B-016-0-20	Inside Shoulder IR 75 SB	41.087694 -83.659868	Asphalt 18.0	No Photo	
B-018-0-20	Outside Shoulder Ramp A	41.085538, -83.660197	Asphalt 16.5		
B-021-0-20	Outside Shoulder Ramp B	41.085788, -83.659569	Asphalt 17.0		

HAN-75/CR-99 Interchange Project PID 102375
PAVEMENT CORE REPORT

Location	Position	Lat/Long	Pavement Thickness (in)	Core Photo	Comments
B-024-0-20	Inside Shoulder Ramp C	41.088546, -83.660529	Asphalt 8.0		
B-025-0-20	Outside Shoulder Ramp C	41.089361, -83.660347	Asphalt 17.0		
B-026-0-20	Groin between Ramp C & SB IR 75	41.090161, -83.660083	Asphalt 16.0		
B-028-0-20	Outside Shoulder Ramp D	41.088521, -83.659218	Asphalt 13.5		
B-030-0-20	Outside Shoulder Ramp D	41.090142, -83.659586	Asphalt 16.0