

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-001-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 861.0 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.401241, -81.324825	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (11") & CONCRETE (8")	861.0																		
	859.4	1																	
MEDIUM STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, TRACE SAND, SLIGHTLY ORGANIC (LOI = 3.8%), MOIST	857.5	2	1																
		3	2	6	67	SS-1	1.00	0	1	2	50	47	34	19	15	29	A-6a (10)	150	
VERY STIFF, MOTTLED BROWN AND GRAY, CLAY, SOME SILT, TRACE STONE FRAGMENTS, TRACE SAND, MOIST		4	3	11	39	SS-2	3.00	10	1	1	31	57	46	21	25	25	A-7-6 (15)	130	
		5	4	14	78	SS-3	3.00	-	-	-	-	-	-	-	-	28	A-7-6 (V)	-	
		6	5																
		7	3	14	78	SS-4	3.00	-	-	-	-	-	-	-	-	29	A-7-6 (V)	-	
	853.0	8	6																
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-002-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 864.1 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.401887, -81.324165	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (15") & CONCRETE (8")	864.1	1																	
	862.2	2	2	6	50	SS-1	1.00	3	2	2	44	49	36	20	16	27	A-6b (10)	330	
MEDIUM STIFF, MOTTLED BROWN, GRAY AND BLACK, SILTY CLAY , TRACE SAND, TRACE STONE FRAGMENTS, MODERATELY ORGANIC (LOI = 5.3%), MOIST	860.6	3	4	12	61	SS-2	3.00	16	0	0	18	66	53	21	32	25	A-7-6 (19)	330	
VERY STIFF, MOTTLED BROWN AND GRAY, CLAY , LITTLE SILT, LITTLE STONE FRAGMENTS, MOIST @5.0'; STIFF		4	4	14	83	SS-3	2.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	-	
		5	4	14	83	SS-3	2.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	-	
		6	4	14	83	SS-3	2.00	-	-	-	-	-	-	-	-	25	A-7-6 (V)	-	
		7	2	12	100	SS-4	1.50	-	-	-	-	-	-	-	-	30	A-7-6 (V)	-	
	856.1	8	3	12	100	SS-4	1.50	-	-	-	-	-	-	-	-	30	A-7-6 (V)	-	
		EOB	5																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-003-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 865.8 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/11/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.402607, -81.323122	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (14"), CONCRETE(8") & BASE (2")	865.8	1																
MEDIUM STIFF, GRAY AND DARK GRAY, SILT AND CLAY, SOME SAND, LITTLE GRAVEL, MODERATELY ORGANIC (LOI = 8.9%), MOIST	863.8	2	3															
MEDIUM STIFF, MOTTLED GRAY, DARK GRAY AND BROWN, SILTY CLAY, LITTLE SAND, TRACE GRAVEL, MODERATELY ORGANIC (LOI = 9.5%), MOIST	862.3	3	2	8	56	SS-1	1.00	18	10	20	29	23	29	17	12	24	A-6a (4)	400
STIFF, MOTTLED BROWN WITH GRAY, SILT, "AND" CLAY, TRACE GRAVEL, TRACE SAND, MOIST @6.5'; WET	860.8	4	1	8	94	SS-2	1.00	8	3	8	35	46	37	18	19	25	A-6b (12)	120
		5	2	11	78	SS-3	2.00	6	1	1	55	37	29	19	10	26	A-4b (8)	-
		6	3	9	89	SS-4	1.00	-	-	-	-	-	-	-	-	29	A-4b (V)	-
	857.8	7	2															
		8	3															
		EOB	3															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\060767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-004-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 860.7 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/11/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.403184, -81.321881	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				WC
ASPHALT (15"), CONCRETE (7") & BASE (2")	860.7	1																	
MEDIUM STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY, LITTLE GRAVEL, TRACE SAND, MOIST	858.7	2	2	6	67	SS-1	1.00	13	1	3	43	40	36	18	18	26	A-6b (11)	100	
STIFF, MOTTLED BROWN AND GRAY, CLAY, SOME SILT, TRACE GRAVEL, TRACE SAND, MOIST @3.5' - 5.0'; MODERATELY ORGANIC (LOI = 4.3%) @5.0'; VERY STIFF	857.2	3	2	11	89	SS-2	2.00	7	0	1	29	63	44	22	22	27	A-7-6 (14)	<100	
		4	3	17	89	SS-3	3.00	-	-	-	-	-	-	-	-	-	26	A-7-6 (V)	-
@6.5'; HARD	852.7	5	4	23	89	SS-4	4.50	-	-	-	-	-	-	-	-	22	A-7-6 (V)	-	
		6	5																
		7	4																
		8	5																
		EOB	10																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-005-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 858.4 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/11/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.403498, -81.320548	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO ₄ ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (8")	857.7	1	2																
STIFF, BROWN AND GRAY, SANDY SILT, SOME GRAVEL AND STONE FRAGMENTS, SOME CLAY, DAMP	855.9	2	3	9	67	SS-1	1.50	23	16	15	24	22	26	16	10	15	A-4a (2)	290	
STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE GRAVEL, TRACE SAND, MOIST	854.4	3	3	11	56	SS-2	2.00	7	2	4	33	54	36	20	16	23	A-6b (10)	290	
MEDIUM DENSE, BROWN AND BLACK, SANDY SILT, LITTLE CLAY, TRACE GRAVEL, MODERATELY ORGANIC (LOI = 6.9%), MOIST	851.9	4	3	12	56	SS-3	-	5	11	39	28	17	NP	NP	NP	22	A-4a (2)	-	
	851.4	5	4	12	56	SS-3	-	5	11	39	28	17	NP	NP	NP	22	A-4a (2)	-	
	851.4	6	3	12	78	SS-4A	-	-	-	-	-	-	-	-	-	19	A-4a (V)	-	
VERY STIFF, BROWN, SILTY CLAY, TRACE SAND, TRACE GRAVEL, MOIST	851.4	7	4	12	78	SS-4B	3.00	2	2	3	31	62	38	22	16	23	A-6b (10)	-	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\060767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-006-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 863.1 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/11/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.404068, -81.319309	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (9")	863.1																		
MEDIUM DENSE, BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, SILT, AND CLAY, MOIST	862.3	1	11																
		2	5	17	44	SS-1	-	41	10	15	14	20	29	16	13	18	A-2-6 (1)	460	
	859.8	3	5	12	78	SS-2A	-	40	11	16	14	19	38	22	16	22	A-2-6 (1)	410	
COAL, BLACK.		4	4			SS-2B	-	-	-	-	-	-	-	-	-	55	Rock (V)	-	
		5	14	75	89	SS-3	-	-	-	-	-	-	-	-	-	21	Rock (V)	-	
	856.6	6	22																
	856.1	7	28	18	89	SS-4A	-	-	-	-	-	-	-	-	-	18	Rock (V)	-	
UNDERCLAY, GRAY AND DARK GRAY.		7	8			SS-4B	-	-	-	-	-	-	-	-	-	20	Rock (V)	-	
			5																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-007-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 863.5 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/11/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.404759, -81.318357	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (15") & CONCRETE (7")	863.5	1																
	861.7	2	2															
STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, SOME SAND, LITTLE STONE FRAGMENTS, CONTAINS 6" WOOD FRAGMENTS, MOIST	860.0	3	3	14	89	SS-1	2.00	17	3	21	22	37	31	16	15	22	A-6a (7)	920
		4	7	18	78	SS-2	3.00	18	7	10	20	45	44	21	23	18	A-7-6 (12)	270
VERY STIFF, MOTTLED BROWN WITH GRAY, CLAY, SOME SILT, LITTLE GRAVEL AND STONE FRAGMENTS, LITTLE SAND, DAMP @5.0'; MOIST		5	4	5	7													
		6	5	20	100	SS-3	3.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)	-
		7	4	6	8													
	855.5	8	6	21	89	SS-4	4.00	-	-	-	-	-	-	-	-	22	A-7-6 (V)	-
		EOB	8	8														

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-008-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 858.9 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.405877, -81.317692	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (14") & CONCRETE (7")	858.9	1																	
VERY STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY , LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST	857.1	2	2																
VERY STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY , LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, DAMP @5.0'; STIFF, MOIST	855.4	3	3	11	78	SS-1	2.50	8	3	9	36	44	36	19	17	21	A-6b (11)	260	
		4	3	11	89	SS-2	2.50	5	6	9	43	37	36	21	15	19	A-6a (10)	300	
		5	2																
	852.4	6	2	6	67	SS-3	1.50	-	-	-	-	-	-	-	-	26	A-6a (V)	-	
STIFF, MOTTLED BROWN AND GRAY, SANDY SILT , "AND" CLAY, TRACE GRAVEL AND STONE FRAGMENTS, MODERATELY ORGANIC (LOI = 4.7%), MOIST	850.9	7	2	9	89	SS-4	2.00	4	2	18	39	37	28	18	10	24	A-4a (8)	-	
		8	3																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\000767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-009-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 856.4 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.406742, -81.317097	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (14") & CONCRETE (7")	856.4	1																	
VERY STIFF, GRAYISH BROWN, CLAY, SOME SILT, TRACE SAND, TRACE STONE FRAGMENTS, DAMP	854.6	2	2																
	852.9	3	3	14	56	SS-1	3.00	5	1	4	25	65	41	22	19	19	A-7-6 (12)	170	
SHALE, GRAY, HIGHLY WEATHERED, VERY WEAK, LAMINATED.		4	4	8	29	SS-2	-	-	-	-	-	-	-	-	-	15	Rock (V)	-	
		5	6	8	11														
		6	8	12	30	SS-3	-	-	-	-	-	-	-	-	-	16	Rock (V)	-	
		7	7	9	30	SS-4	-	-	-	-	-	-	-	-	-	17	Rock (V)	-	
	848.4	8	11	30	67														
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-010-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 855.4 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.407600, -81.316158	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (15") & CONCRETE (7")	855.4	1																
STIFF, BROWN AND GRAY, SILT AND CLAY, "AND" STONE FRAGMENTS, LITTLE SAND, DAMP @3.5'; VERY STIFF, MOIST	853.6	2	5															
		3	4	14	39	SS-1	2.00	38	4	9	24	25	30	19	11	18	A-6a (3)	840
		4	3	5	18	SS-2	2.50	35	5	10	19	31	32	19	13	20	A-6a (4)	640
	848.9	5	7	5	8	SS-3	2.00	-	-	-	-	-	-	-	-	20	A-6a (V)	-
MEDIUM STIFF, GRAY AND DARK GRAY, SILT AND CLAY, TRACE SAND, TRACE STONE FRAGMENTS, MODERATELY ORGANIC (LOI = 7.4%), WET	847.4	7	2	2	2	SS-4	0.50	5	2	6	45	42	37	23	14	36	A-6a (10)	-
		8	2	2	2													

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\00767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-011-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 854.8 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.408066, -81.314934	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (18") & CONCRETE (6")	854.8	1																	
STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY , LITTLE STONE FRAGMENTS, TRACE SAND, MOIST	852.8	2	5																
VERY STIFF, BROWN, GRAY AND BLACK, SILT AND CLAY , SOME STONE FRAGMENTS, LITTLE SAND, MOIST	851.3	3	4	5	14	28	SS-1	2.00	19	1	2	23	55	39	21	18	22	A-6b (11)	220
LOOSE, MOTTLED GRAY AND BROWN, SANDY SILT , SOME CLAY, TRACE STONE FRAGMENTS, MOIST @6.5'; VERY LOOSE, WET	849.8	4	6	5	17	89	SS-2	2.50	23	4	12	27	34	30	18	12	22	A-6a (6)	360
	846.8	5	2		6	89	SS-3	-	-	-	-	-	-	-	-	-	26	A-4a (V)	-
		6	2	2															
		7	0		0	100	SS-4	-	1	0	33	46	20	NP	NP	NP	28	A-4a (6)	-
		8	0		0														

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ



NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-012-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 862.6 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.408283, -81.313538	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (12")	862.6																		
MEDIUM DENSE, BROWN AND GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, TRACE SILT, TRACE CLAY, (NOT ENOUGH MATERIAL TO TEST), DRY	861.6	1	11																
VERY STIFF, MOTTLED BROWN AND GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL, MOIST @4.0'; WET	860.1	2	7	18	17	SS-1	-	-	-	-	-	-	-	-	-	-	3	A-1-b (V)	-
		3	4	20	56	SS-2	2.00	6	1	46	19	28	23	14	9	18	A-4a (2)	240	
		4	6	17	56	SS-3	2.00	-	-	-	-	-	-	-	-	25	A-4a (V)	-	
	857.1	5	4	15	56	SS-4	3.00	0	0	1	29	70	37	20	17	24	A-6b (11)	230	
VERY STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND, MOIST	855.6	6	3																
		7	4																
		EOB	6																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-013-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 865.0 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.408077, -81.312141	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (12")	865.0																		
VERY STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, LITTLE STONE FRAGMENTS, LITTLE SAND, DAMP	864.0	1	10																
	862.5	2	5	14	22	SS-1	2.50	17	5	9	36	33	31	17	14	16	A-6a (8)	210	
VERY STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND, TRACE STONE FRAGMENTS, MOIST		3	4	15	67	SS-2	2.50	4	1	7	41	47	35	17	18	20	A-6b (11)	220	
		4	4	6															
		5	6	21	78	SS-3	3.50	-	-	-	-	-	-	-	-	22	A-6b (V)	-	
		6	5	8															
	858.0	6	8	26	78	SS-4	3.00	-	-	-	-	-	-	-	-	22	A-6b (V)	-	
		7	9																
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-014-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 875.3 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/10/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.407794, -81.310796	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				WC
ASPHALT (15") & CONCRETE (7")	875.3	1																	
HARD, BROWN, SANDY SILT, SOME STONE FRAGMENTS, LITTLE CLAY, DAMP	871.8	2	8	36	56	SS-1	4.00	32	6	12	35	15	26	19	7	11	A-4a (3)	300	
VERY STIFF, GREENISH GRAY, SANDY SILT, SOME CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, MOIST	870.3	3	9	15															
		4	3	5	12	44	SS-2	3.00	18	6	24	32	20	22	16	6	17	A-4a (3)	240
VERY STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST		5	4	5	14	67	SS-3	3.00	-	-	-	-	-	-	-	-	19	A-6a (V)	-
		6	4	5	14	67	SS-3	3.00	-	-	-	-	-	-	-	-	19	A-6a (V)	-
		7	4	6	20	78	SS-4	3.00	3	1	7	36	53	32	17	15	21	A-6a (10)	-
	867.3	8	6	7	20	78	SS-4	3.00	3	1	7	36	53	32	17	15	21	A-6a (10)	-
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-015-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 886.9 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/15/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.407103, -81.309683	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13") & CONCRETE (8")	886.9	1																
VERY STIFF, BROWN, SANDY SILT, SOME STONE FRAGMENTS, LITTLE CLAY, DAMP	885.2	2	8															
		3	7	20	56	SS-1	4.00	34	5	11	35	15	27	20	7	11	A-4a (3)	210
		4	6															
		5	7	18	17	SS-2	3.00	26	5	15	36	18	26	19	7	12	A-4a (4)	200
		6	4															
	880.4	7	5	14	89	SS-3	3.00	-	-	-	-	-	-	-	-	16	A-4a (V)	-
MEDIUM STIFF, BROWN, SANDY SILT, SOME CLAY, TRACE STONE FRAGMENTS, MOIST	878.9	8	3	2	8	SS-4	1.00	8	6	12	45	29	29	19	10	20	A-4a (8)	-
		EOB																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\060767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-016-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 890.7 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.406315, -81.308794	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13")CONCRETE (8")	890.7	1																
VERY STIFF, BROWN, SANDY SILT, LITTLE CLAY, LITTLE STONE FRAGMENTS, DAMP	889.0	2	5	20	61	SS-1	4.00	10	8	16	48	18	27	21	6	13	A-4a (6)	170
@3.5'; SOME CLAY, TRACE STONE FRAGMENTS, DAMP		3	6	7														
@5.0'; MOIST		4	4	5	17	SS-2	4.00	8	8	15	45	24	28	19	9	18	A-4a (7)	160
@6.5'; DAMP		5	4	5	6													
		6	5	4	14	SS-3	2.50	-	-	-	-	-	-	-	-	20	A-4a (V)	-
		7	6	6	7	SS-4	2.00	-	-	-	-	-	-	-	-	14	A-4a (V)	-
	882.7	8	6	7	20													
		EOB																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-017-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 873.1 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/15/20 END: 6/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.405389, -81.307956	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13" CONCRETE (8"))	873.1																	
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND AND SILT , LITTLE CLAY, DAMP @3.5'; BROWN AND GRAY	871.4	1																
		2	3	14	56	SS-1	-	36	4	25	21	14	22	16	6	15	A-2-4 (0)	160
		3	6															
		4	5	8	26	SS-2	-	51	5	15	17	12	23	18	5	10	A-2-4 (0)	170
	868.1	5	9															
DENSE, YELLOWISH BROWN, STONE FRAGMENTS WITH SAND AND SILT , TRACE CLAY, DAMP		6	6	7	36	SS-3	-	-	-	-	-	-	-	-	-	8	A-2-4 (V)	-
		7	7	17														
		8	7	7	24	SS-4	-	45	3	30	14	8	NP	NP	NP	9	A-2-4 (0)	-
	865.1	EOB		9														

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-018-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 864.2 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.404588, -81.307088	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (14") & CONCRETE (7")	864.2	1																	
STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, LITTLE SAND, MOIST	862.4	2	2																
	860.7	3	3	11	67	SS-1	2.00	0	1	16	48	35	28	16	12	20	A-6a (9)	220	
VERY STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND, MOIST	859.2	4	2	14	78	SS-2	3.00	0	0	3	37	60	38	18	20	22	A-6b (12)	160	
VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE STONE FRAGMENTS, MOIST	856.2	5	3	17	83	SS-3	3.00	-	-	-	-	-	-	-	-	25	A-6a (V)	-	
		6	5	12	89	SS-4	2.50	1	0	1	37	61	34	20	14	23	A-6a (10)	-	
		7	3																
		8	5																
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-019-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 861.9 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.403668, -81.306200	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
ASPHALT (6")	861.4	1	2															
STIFF, BROWN, SANDY SILT, SOME CLAY, TRACE GRAVEL, MOIST	859.4	2	3	9	33	SS-1	2.00	6	1	30	38	25	24	16	8	16	A-4a (6)	200
VERY STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST		3	3	14	78	SS-2	2.50	3	1	19	43	34	28	16	12	18	A-6a (9)	240
		4	4	14	67	SS-3	3.00	-	-	-	-	-	-	-	-	20	A-6a (V)	-
@5.5'; STIFF		5	4	14	67	SS-3	3.00	-	-	-	-	-	-	-	-	20	A-6a (V)	-
		6	3	8	78	SS-4	1.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-
	854.9	7	2	8	78	SS-4	1.50	-	-	-	-	-	-	-	-	19	A-6a (V)	-
		EOB	3															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-020-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 878.4 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.403130, -81.304986	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (11")	878.4																		
MEDIUM DENSE, BROWN AND BLACK, STONE FRAGMENTS WITH SAND , TRACE SILT, (NOT ENOUGH MATERIAL TO TEST), DAMP	877.5	1	4																
STIFF, BROWN, SILT AND CLAY , LITTLE SAND, TRACE STONE FRAGMENTS, MOIST	875.9	2	4	14	28	SS-1	-	-	-	-	-	-	-	-	8	A-1-b (V)	-		
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND , LITTLE SILT, TRACE CLAY, DAMP @5.5'; DENSE	874.4	3	3	15	56	SS-2	1.50	5	2	17	44	32	27	15	12	21	A-6a (9)	420	
		4	8	27	50	SS-3	-	55	4	19	15	7	21	16	5	6	A-1-b (0)	150	
		5	10	30	61	SS-4	-	-	-	-	-	-	-	-	-	6	A-1-b (V)	-	
	871.4	6	8																
		7	10																
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-021-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 907.5 (ft) EOB: 3.6 ft.	PAGE: 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.402818, -81.303609	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (11.5) & CONCRETE (8")	907.5	1																
HARD, BROWN, SANDY SILT, SOME STONE FRAGMENTS, SOME CLAY, DAMP	905.9	2	3															
@3.5'; (NOT ENOUGH MATERIAL TO TEST)	903.9	3	5	83	56	SS-1	4.00	22	4	21	32	21	25	16	9	15	A-4a (4)	250
	EOB		50/1"	-	100	SS-2	4.00	-	-	-	-	-	-	-	-	11	A-4a (V)	-

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 3 LB. BENTONITE CHIPS

PROJECT: <u>TUS-250-23.46</u>	DRILLING FIRM / OPERATOR: <u>ODOT / MCINTOSH</u>	DRILL RIG: <u>CME 75 TRUCK</u>	STATION / OFFSET: _____	EXPLORATION ID B-022-0-20
TYPE: <u>ROADWAY</u>	SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CL US 250</u>	
PID: <u>102408</u> SFN: _____	DRILLING METHOD: <u>3.5" SSA</u>	CALIBRATION DATE: <u>4/15/20</u>	ELEVATION: <u>916.4 (ft)</u> EOB: <u>8.0 ft.</u>	PAGE 1 OF 1
START: <u>6/23/20</u> END: <u>6/23/20</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90</u>	LAT / LONG: <u>40.402977, -81.302206</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT(13") CONCRETE (7")	916.4																	
	914.7	1																
VERY STIFF, BROWN, SANDY SILT , SOME STONE FRAGMENTS, LITTLE CLAY, DAMP		2	4	29	67	SS-1	3.50	23	4	15	39	19	26	17	9	12	A-4a (5)	210
		3	9	10														
	911.4	4	8	29	89	SS-2	4.00	31	7	14	33	15	25	18	7	11	A-4a (3)	<100
		5	10	9														
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND AND SILT , LITTLE CLAY, DAMP		6	6	18	72	SS-3	-	42	3	21	23	11	NP	NP	NP	10	A-2-4 (0)	-
		7	5	7														
	908.4	8	7	29	94	SS-4	-	-	-	-	-	-	-	-	-	10	A-2-4 (V)	-
		EOB	10															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:39 - X:\GINT\PROJECTS\2020 COMPLETE\600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 5 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-023-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 901.9 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.403379, -81.300914	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				WC
ASPHALT (13.5") & CONCRETE (7.5")	901.9	1																	
STIFF, BROWN, SILT AND CLAY, "AND" STONE FRAGMENTS, LITTLE SAND, DAMP	900.1	2	3																
DENSE, BROWN, STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP	898.4	3	3	12	78	SS-1	1.00	38	4	7	32	19	31	19	12	17	A-6a (4)	260	
		4	10	30	78	SS-2	-	64	4	6	17	9	26	19	7	6	A-2-4 (0)	120	
	895.9	5	11	9															
		6	8	6	18	89	SS-3A	-	-	-	-	-	-	-	-	8	A-2-4 (V)	-	
STIFF, MOTTLED BROWN, REDDISH BROWN AND GRAY, SILT, SOME CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST	894.4	7	6	6			SS-3B	1.50	4	5	14	52	25	31	23	8	24	A-4b (8)	-
	893.9	8	2	3	9	89	SS-4	1.50	8	5	7	46	34	30	18	12	20	A-6a (9)	-
STIFF, YELLOWISH BROWN, SILT AND CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST		EOB	3																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\000767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-024-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 899.4 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.403958, -81.299679	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13") & CONCRETE (7")	899.4																	
	897.7	1																
VERY STIFF, BROWN, SILT AND CLAY, SOME SAND, LITTLE STONE FRAGMENTS, MOIST		2	2															
		3	4	15	67	SS-1	3.00	18	8	13	31	30	28	14	14	15	A-6a (7)	250
@3.5'; "AND" STONE FRAGMENTS, LITTLE SAND, DAMP		4	5	8	24	SS-2	4.00	36	6	10	25	23	29	18	11	12	A-6a (3)	130
@5.0' - 6.5'; HARD		5	8	8	26	SS-3	4.5+	-	-	-	-	-	-	-	-	13	A-6a (V)	-
		6	5	8	26	SS-3	4.5+	-	-	-	-	-	-	-	-	13	A-6a (V)	-
		7	5	7	23	SS-4	4.00	-	-	-	-	-	-	-	-	12	A-6a (V)	-
	891.4	8	7	8	23	SS-4	4.00	-	-	-	-	-	-	-	-	12	A-6a (V)	-
		EOB																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-025-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 899.2 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.404482, -81.298493	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13.5") & CONCRETE (7.5")	899.2	1																
STIFF, BROWN, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP	897.5	2	6															
@3.5'; CONTAINS ASPHALT FRAGMENTS		3	4	11	56	SS-1	1.00	45	7	9	23	16	26	18	8	13	A-4a (1)	4300
		4	3															
	894.2	5	50	-	67	SS-2	1.50	-	-	-	-	-	-	-	-	14	A-4a (V)	-
VERY STIFF, BROWN, SANDY SILT, SOME CLAY, LITTLE STONE FRAGMENTS, DAMP		6	7															
		7	9	32	100	SS-3	2.50	11	5	14	47	23	25	17	8	13	A-4a (7)	740
		8	5															
	891.2	7	8	24	100	SS-4	3.00	-	-	-	-	-	-	-	-	14	A-4a (V)	-
		8	8															
		EOB																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH V LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-026-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 895.6 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.405323, -81.297510	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (8")	895.6																		
MEDIUM DENSE, BROWN AND BLACK, GRAVEL AND STONE FRAGMENTS WITH SAND, TRACE SILT, TRACE CLAY, WITH ASPHALT FRAGMENTS, (NOT ENOUGH MATERIAL TO TEST), DAMP	894.9	1	10																
VERY STIFF, BROWN, SANDY SILT, SOME STONE FRAGMENTS, LITTLE CLAY, DAMP @4.0'; HARD, "AND" STONE FRAGMENTS @5.5'; VERY STIFF	893.1	2	6	18	28	SS-1	-	-	-	-	-	-	-	-	10	A-1-b (V)	-		
		3	7	38	72	SS-2	3.50	30	3	13	39	15	25	18	7	12	A-4a (4)	110	
		4	12																
		5	13	36	72	SS-3	4.00	41	7	12	27	13	25	19	6	8	A-4a (1)	110	
		6	15																
		7	9	36	72	SS-3	4.00	41	7	12	27	13	25	19	6	8	A-4a (1)	110	
		6	5	12	78	SS-4	4.00	43	5	9	28	15	26	19	7	11	A-4a (2)	-	
	888.6	7	3	12	78	SS-4	4.00	43	5	9	28	15	26	19	7	11	A-4a (2)	-	
		EOB	5																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-027-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 883.7 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.406067, -81.296469	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (12")	883.7																		
MEDIUM DENSE, BROWN AND GRAY, GRAVEL, TRACE SAND, TRACE SILT, (NOT ENOUGH MATERIAL TO TEST), WET	882.7	1	3																
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP	881.2	2	4	12	11	SS-1	-	-	-	-	-	-	-	-	-	4	A-1-a (V)	-	
VERY STIFF, BROWN, SILT AND CLAY, SOME STONE FRAGMENTS, LITTLE SAND, MOIST @5.5'; DAMP	879.7	3	7	15	44	SS-2	-	64	6	9	15	6	24	18	6	9	A-1-b (0)	120	
		4	4	14	83	SS-3	2.50	22	7	8	32	31	32	19	13	21	A-6a (7)	240	
		5	4	14	83	SS-3	2.50	22	7	8	32	31	32	19	13	21	A-6a (7)	240	
		6	5	17	89	SS-4	3.00	-	-	-	-	-	-	-	-	14	A-6a (V)	-	
	876.7	7	5	17	89	SS-4	3.00	-	-	-	-	-	-	-	-	14	A-6a (V)	-	
		EOB	6																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-028-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/15/20	ELEVATION: 872.3 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.406900, -81.295528	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (14") & CONCRETE (6")	872.3																	
	870.6	1																
STIFF, MOTTLED BROWN AND GRAY, SANDY SILT, SOME STONE FRAGMENTS, SOME CLAY, DAMP		2	3															
@3.5'; VERY STIFF, LITTLE STONE FRAGMENTS		3	5	12	28	SS-1	2.00	29	6	9	30	26	29	20	9	15	A-4a (4)	340
@5.0'; MOTTLED BROWN WITH GRAY		4	2															
		5	3	11	67	SS-2	2.50	15	6	15	38	26	26	18	8	19	A-4a (6)	110
		6	4															
	865.8	6	4	15	78	SS-3	2.50	-	-	-	-	-	-	-	-	17	A-4a (V)	-
VERY STIFF, BROWN AND BLACK, SILT AND CLAY, "AND" SAND, LITTLE STONE FRAGMENTS, WITH COAL FRAGMENTS, DAMP	864.3	7	5															
		8	6	18	11	SS-4	2.00	19	13	24	23	21	27	16	11	14	A-6a (2)	-
		EOB	6															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 - X:\GINT\PROJECTS\2020 COMPLETE\00767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID B-029-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 869.6 (ft) EOB: 8.0 ft.	PAGE 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.407634, -81.294535	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (14") & CONCRETE (8")	869.6	1																
MEDIUM STIFF, GRAY, SANDY SILT , SOME CLAY, LITTLE STONE FRAGMENTS, SLIGHTLY ORGANIC (LOI = 3.9%), DAMP	867.8 866.1	2 3	3 2	8	44	SS-1	1.00	14	7	11	44	24	29	20	9	19	A-4a (7) 150	
STIFF, MOTTLED BROWN AND GRAY, CLAY , "AND" SILT, TRACE SAND, TRACE STONE FRAGMENTS, CONTAINS SLIGHT PETROLEUM ODOR, MOIST		4 5	2 3	11	89	SS-2	2.00	1	1	2	56	40	41	18	23	26	A-7-6 (13) <100	
@6.5'; VERY STIFF		6 7	4 3	15	89	SS-3	2.00	-	-	-	-	-	-	-	-	22	-	
	861.6	7	5	18	100	SS-4	2.50	-	-	-	-	-	-	-	-	20	-	
		8	7															



NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\060767.GPJ

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-030-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 867.5 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/18/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.408473, -81.293576	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (21")	867.5																	
	865.8	1																
VERY STIFF, GRAY, SANDY SILT, SOME CLAY, LITTLE STONE FRAGMENTS, DAMP	864.0	2	5	23	56	SS-1	3.50	14	6	17	42	21	25	19	6	15	A-4a (6)	360
		3	9	23	56	SS-1	3.50	14	6	17	42	21	25	19	6	15	A-4a (6)	360
VERY STIFF, MOTTLED BROWN WITH GRAY, SILTY CLAY, SOME STONE FRAGMENTS, SOME SAND, MOIST @5.0'; CONTAINS COAL FRAGMENTS		4	3	23	56	SS-2	3.50	28	10	17	26	19	28	12	16	14	A-6b (4)	210
		5	7	23	56	SS-2	3.50	28	10	17	26	19	28	12	16	14	A-6b (4)	210
@6.5'; STIFF		6	5	23	78	SS-3	2.50	-	-	-	-	-	-	-	-	13	A-6b (V)	-
		7	7	23	78	SS-3	2.50	-	-	-	-	-	-	-	-	13	A-6b (V)	-
	859.5	8	4	11	78	SS-4	1.50	-	-	-	-	-	-	-	-	20	A-6b (V)	-
		EOB	4	11	78	SS-4	1.50	-	-	-	-	-	-	-	-	20	A-6b (V)	-

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\000767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-031-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 861.3 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.409151, -81.292525	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (13.5") & CONCRETE (6.5)	861.3																		
	859.6	1																	
VERY STIFF, MOTTLED GRAY, BROWN AND BLACK, SANDY SILT, SOME CLAY, TRACE STONE FRAGMENTS, WITH SLAG, SLIGHTLY ORGANIC (LOI = 3.7%), DAMP	857.8	2	11	20	44	SS-1	2.00	7	8	15	48	22	26	19	7	17	A-4a (7)	500	
		3	5	18	89	SS-2	3.50	9	4	8	41	38	31	17	14	18	A-6a (10)	130	
VERY STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST		4	6	20	72	SS-3	3.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
		5	3	20	72	SS-3	3.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
		6	5	20	72	SS-3	3.50	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
		7	8	27	61	SS-4	4.00	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
	853.3	8	4	27	61	SS-4	4.00	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
		EOB	10																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-032-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 861.3 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/18/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.409675, -81.291244	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13") & CONCRETE (8")	861.3	1																
VERY STIFF, MOTTLED GRAY AND BROWN, SANDY SILT, SOME CLAY, TRACE STONE FRAGMENTS, DAMP	859.6	2	3															
	857.8	3	4	12	89	SS-1	3.00	4	1	11	49	35	30	29	1	19	A-4a (8)	200
STIFF, MOTTLED GRAY AND BROWN, SILT AND CLAY, SOME STONE FRAGMENTS, LITTLE SAND, MOIST	856.3	4	2	20	83	SS-2	1.50	30	5	8	33	24	31	18	13	19	A-6a (6)	<100
	856.5	5	3	9														
STIFF, GRAY, CLAY, SOME SILT, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST		6	2	8	89	SS-3	1.50	-	-	-	-	-	-	-	-	34	A-7-6 (V)	-
		7	2	3														
	853.3	8	2	8	78	SS-4	1.50	1	1	11	31	56	47	18	29	27	A-7-6 (17)	-
		EOB	3															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-033-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / PAINTER	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 862.1 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/16/20 END: 6/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.409785, -81.289899	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (13") & CONCRETE (7")	862.1																		
	860.5	1																	
VERY STIFF, GRAY, SILT, SOME CLAY, SOME SAND, TRACE STONE FRAGMENTS, SLIGHTLY ORGANIC (LOI = 3.3%), MOIST	858.6	2	3	20	67	SS-1	2.00	2	4	18	54	22	23	17	6	18	A-4b (8)	320	
		3	6	7															
VERY STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, LITTLE STONE FRAGMENTS, TRACE SAND, MOIST		4	5	18	89	SS-2	3.00	11	2	6	45	36	32	18	14	19	A-6a (10)	290	
		5	6	6															
		6	3	4	14	100	SS-3	2.50	-	-	-	-	-	-	-	22	A-6a (V)	-	
		7	4	5															
	854.1	8	3	6	20	94	SS-4	-	-	-	-	-	-	-	-	20	A-6a (V)	-	
		EOB	7	7															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-034-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 868.0 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/18/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.409657, -81.288451	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (8") AGGREGATE BASE (6")	868.0																		
VERY STIFF, MOTTLED BROWN AND GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL, MOIST	866.8	1	12	18	44	SS-1A	-	-	-	-	-	-	-	-	-	5	A-1-b (V)	-	
VERY STIFF, MOTTLED BROWN WITH GRAY, CLAY, SOME SILT, TRACE STONE FRAGMENTS, TRACE SAND, MOIST	865.5	2	7	14	67	SS-1B	2.00	9	16	29	25	21	22	14	8	15	A-4a (2)	130	
		3	4	17	78	SS-2	2.50	7	1	4	33	55	41	21	20	23	A-7-6 (12)	150	
		4	3	17	78	SS-3	3.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
		5	5	17	78	SS-3	3.50	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
		6	4	17	83	SS-4	4.00	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
	861.0	7	6	17	83	SS-4	4.00	-	-	-	-	-	-	-	-	23	A-7-6 (V)	-	
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-035-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 864.1 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.409267, -81.287121	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (12.5) & CONCRETE (7.5)	864.1	1																
STIFF, BROWN, SANDY SILT, SOME STONE FRAGMENTS, SOME CLAY, MOIST	862.5	2	2															
@3.5'; VERY STIFF, MOTTLED BROWN AND GRAY, LITTLE STONE FRAGMENTS, DAMP		3	3	12	61	SS-1	2.00	28	2	20	30	20	23	15	8	18	A-4a (3)	760
@5.0'; MOTTLED BROWN, GRAY AND BLACK, CONTAINS ASPHALT FRAGMENTS, MOIST		4	5	5														
		5	6	17	89	SS-2	2.50	14	2	25	36	23	23	17	6	16	A-4a (5)	620
		6	3	15	83	SS-3	3.00	-	-	-	-	-	-	-	-	18	A-4a (V)	-
		7	4	6	72	SS-4	3.00	-	-	-	-	-	-	-	-	19	A-4a (V)	-
	856.1	8	7	20	72	SS-4	3.00	-	-	-	-	-	-	-	-	19	A-4a (V)	-
		EOB																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID B-036-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 862.8 (ft) EOB: 8.0 ft.	PAGE 1 OF 1
START: 6/18/20 END: 6/18/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.408969, -81.285771	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (13") & CONCRETE (8")	862.8	1																	
	861.1	2	4																
STIFF, BROWN AND GRAY, SILTY CLAY, TRACE STONE FRAGMENTS, DAMP @2.0'; (NOT ENOUGH MATERIAL TO TEST) @3.5'; VERY STIFF, MOIST		3	4	12	33	SS-1	1.50	-	-	-	-	-	-	-	17	A-6b (V)	-		
		4	2	3	12	89	SS-2	3.00	4	0	3	49	44	38	19	19	22	A-6b (12)	120
@5.0'; STIFF		5	3	5															
		6	3	4	11	56	SS-3	2.00	6	0	4	48	42	35	18	17	23	A-6b (11)	<100
@6.5'; MOTTLED GRAY AND BROWN, SLIGHTLY ORGANIC (LOI = 3.8%), WITH ROOTS		7	3	3	11	78	SS-4	2.00	1	0	4	54	41	36	19	17	23	A-6b (11)	-
	854.8	8	4																
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\060767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-037-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 873.9 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.408488, -81.284474	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13") & CONCRETE (8")	873.9	1																
STIFF, BROWN, SANDY SILT, SOME CLAY, TRACE STONE FRAGMENTS, MOIST	872.2	2	3															
@3.5'; MOTTLED BROWN AND GRAY, DAMP		3	4	14	72	SS-1	2.00	2	2	23	45	28	26	16	10	18	A-4a (8)	370
		4	2															
		5	4	14	100	SS-2	1.50	1	0	32	44	23	28	25	3	22	A-4a (6)	290
		6	2															
	867.4	7	3	11	100	SS-3	2.00	-	-	-	-	-	-	-	-	22	A-4a (V)	-
STIFF, MOTTLED BROWN AND GRAY, SILT, SOME CLAY, TRACE SAND, TRACE STONE FRAGMENTS, MOIST	865.9	8	2	9	89	SS-4	2.00	1	0	3	62	34	26	21	5	24	A-4b (8)	-
		EOB	4															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\00767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-038-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 873.2 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/18/20 END: 6/18/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.408051, -81.283197	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				WC
ASPHALT (13") & CONCRETE (8")	873.2																		
	871.5	1																	
VERY STIFF, MOTTLED GRAY AND BROWN, SANDY SILT, SOME CLAY, TRACE STONE FRAGMENTS, SLIGHTLY ORGANIC, MOIST	869.7	2	3	12	72	SS-1	2.50	2	7	23	47	21	21	17	4	17	A-4a (7)	350	
		3	5	3															
STIFF, MOTTLED REDDISH BROWN AND GRAY, SILT AND CLAY, SOME SAND, TRACE STONE FRAGMENTS, MOIST		4	2	11	78	SS-2	2.00	8	1	21	42	28	32	17	15	25	A-6a (9)	320	
		5	3	4															
		6	2	11	100	SS-3	1.50	-	-	-	-	-	-	-	-	22	A-6a (V)	-	
		7	4	3															
	865.2	8	2	14	67	SS-4	1.50	-	-	-	-	-	-	-	-	23	A-6a (V)	-	
		EOB	5																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-039-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 867.4 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.407513, -81.281927	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				WC
ASPHALT (14") & CONCRETE (7")	867.4	1																	
	865.7	2	3																
STIFF, MOTTLED BROWN AND GRAY, SANDY SILT , "AND" CLAY, TRACE STONE FRAGMENTS, MODERATELY ORGANIC (LOI = 4.6%) WITH TRACE ROOTS, MOIST @3.5'; MODERATELY ORGANIC (LOI = 5.1%) WITH ROOTS	862.4	3	4	14	83	SS-1	2.00	3	1	10	49	37	29	19	10	24	A-4a (8)	220	
		4	1	2	6	44	SS-2	0.50	9	2	9	47	33	30	20	10	27	A-4a (8)	110
		5	1	2															
VERY STIFF, MOTTLED GRAY WITH BROWN, SILT AND CLAY , LITTLE STONE FRAGMENTS, TRACE SAND, MOIST @6.5'; MOTTLED BROWN WITH GRAY	859.4	6	3	11	50	SS-3	2.50	-	-	-	-	-	-	-	-	24	A-6a (V)	-	
		7	2	4	14	72	SS-4	2.50	17	3	2	43	35	34	20	14	23	A-6a (10)	-
	859.4	EOB	4	5															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: <u>TUS-250-23.46</u>	DRILLING FIRM / OPERATOR: <u>ODOT / MCINTOSH</u>	DRILL RIG: <u>CME 75 TRUCK</u>	STATION / OFFSET: _____	EXPLORATION ID B-040-0-20
TYPE: <u>ROADWAY</u>	SAMPLING FIRM / LOGGER: <u>ODOT / LEWIS</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CL US 250</u>	
PID: <u>102408</u> SFN: _____	DRILLING METHOD: <u>3.5" SSA</u>	CALIBRATION DATE: <u>4/15/20</u>	ELEVATION: <u>869.1 (ft)</u> EOB: <u>7.0 ft.</u>	PAGE 1 OF 1
START: <u>6/18/20</u> END: <u>6/18/20</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90</u>	LAT / LONG: <u>40.406957, -81.280722</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (12")	869.1																		
STIFF, BROWN, SILT AND CLAY , LITTLE STONE FRAGMENTS, TRACE SAND, WET @2.5'; NO RECOVERY, AUGER CUTTINGS TAKEN	868.1	1	3																
		2	3	9	22	SS-1	1.00	14	1	8	43	34	31	17	14	33	A-6a (10)	410	
		3	5	3															
	865.1	4	4	11	0	SS-2	-	-	-	-	-	-	-	-	-	17	A-6a (V)	-	
MEDIUM STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY , LITTLE SAND, TRACE STONE FRAGMENTS, MOIST		5	2	8	67	SS-3	1.00	1	0	13	57	29	29	17	12	24	A-6a (9)	250	
		6	1	2	3														
	862.1	7	2	6	89	SS-4	1.00	-	-	-	-	-	-	-	-	25	A-6a (V)	-	
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-041-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 873.6 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.406056, -81.279956	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (8")	873.6																		
MEDIUM DENSE, GRAYISH BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL AND STONE FRAGMENTS, DAMP	872.8	1	3																
	871.1	2	5	17	28	SS-1	-	12	7	30	36	15	NP	NP	NP	16	A-4a (3)	110	
STIFF, MOTTLED BROWN AND GRAY, SILTY CLAY, TRACE SAND, TRACE STONE FRAGMENTS, MOIST		3	2	12	56	SS-2	2.00	3	0	5	43	49	39	18	21	22	A-6b (12)	240	
		4	3	9	50	SS-3	1.50	-	-	-	-	-	-	-	-	27	A-6b (V)	-	
		5	3	3															
		6	2	3	9	100	SS-4	1.50	-	-	-	-	-	-	-	25	A-6b (V)	-	
	866.6	7	3	9	100	SS-4	1.50	-	-	-	-	-	-	-	-	25	A-6b (V)	-	
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-042-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 875.1 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/18/20 END: 6/18/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.405155, -81.279287	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (13.5) & CONCRETE (7.5)	875.1	1																
	873.3	2	3	8	72	SS-1	1.50	4	2	21	49	24	23	17	6	22	A-4a (8)	180
STIFF, BROWN AND GRAY, SANDY SILT, SOME CLAY, TRACE STONE FRAGMENTS, SLIGHTLY ORGANIC (LOI = 3.3%), MOIST @3.5'; VERY SOFT		3	0	0	11	SS-2	-	-	-	-	-	-	-	-	-	25	A-4a (V)	-
	870.1	4	0															
MEDIUM STIFF, MOTTLED BROWN WITH GRAY, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, MOIST @6.5'; STIFF		5	0															
		6	1	3	67	SS-3	1.00	5	2	13	48	32	28	17	11	22	A-6a (8)	160
	867.1	7	1	3	11	SS-4	2.00	-	-	-	-	-	-	-	-	23	A-6a (V)	-
		8	4															



NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-043-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 877.7 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.404149, -81.278694	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				WC
ASPHALT (14") & CONCRETE (7")	877.7	1																	
STIFF, MOTTLED BROWN AND GRAY, SANDY SILT, SOME CLAY, TRACE STONE FRAGMENTS, MOIST	875.9	2	4																
@3.5'; VERY STIFF		3	3	4	11	78	SS-1	1.50	1	3	27	46	23	22	16	6	18	A-4a (7)	340
@5.0'; MEDIUM STIFF, WET		4	2	4	12	72	SS-2	2.50	2	0	28	40	30	24	15	9	21	A-4a (7)	240
@6.5'; SOFT		5	2	4	6	78	SS-3	0.50	-	-	-	-	-	-	-	-	26	A-4a (V)	-
		6	2	2															
		7	1	1	3	78	SS-4	0.50	-	-	-	-	-	-	-	-	28	A-4a (V)	-
	869.7	8	1	1															
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID B-044-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 880.5 (ft) EOB: 8.0 ft.	PAGE 1 OF 1
START: 6/18/20 END: 6/18/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.403243, -81.278051	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (14") & CONCRETE (7")	880.5	1																	
MEDIUM DENSE, GRAY AND BROWN, STONE FRAGMENTS WITH SAND , LITTLE SILT, TRACE CLAY, WITH SLAG AND ASPHALT FRAGMENTS, WET	878.7	2	12																
VERY STIFF, BROWN AND REDDISH BROWN, SANDY SILT , SOME CLAY, TRACE STONE FRAGMENTS, MOIST	877.0	3	8	4	18	44	SS-1	-	56	8	13	16	7	NP	NP	NP	18	A-1-b (0)	1400
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, LITTLE CLAY, WET	875.5	4	3	5	17	78	SS-2	2.50	2	1	35	36	26	24	15	9	19	A-4a (5)	350
VERY STIFF, MOTTLED BROWN AND GRAY, SANDY SILT , SOME CLAY, TRACE STONE FRAGMENTS, WET	874.0	5	3	5	18	89	SS-3	-	0	2	63	19	16	NP	NP	NP	21	A-3a (0)	140
	872.5	6	5	7	17	83	SS-4	2.50	6	6	27	37	24	23	15	8	21	A-4a (5)	-
		7	5	6															
		8																	



NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\060767.GPJ

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-045-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 883.6 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.402187, -81.277327	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (13) & CONCRETE (7)	883.6	1																	
MEDIUM DENSE, BROWN, SANDY SILT, LITTLE STONE FRAGMENTS, LITTLE CLAY, MOIST	881.9	2	6																
		3	4	15	83	SS-1	-	18	3	29	36	14	NP	NP	NP	17	A-4a (3)	400	
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP	880.1	4	5	20	67	SS-2	-	37	2	31	22	8	NP	NP	NP	11	A-2-4 (0)	210	
		5	6	7	24	89	SS-3	-	-	-	-	-	-	-	-	13	A-2-4 (V)	-	
		6	7	9	24	89	SS-3	-	-	-	-	-	-	-	-	13	A-2-4 (V)	-	
		7	7	6	23	67	SS-4	-	-	-	-	-	-	-	-	12	A-2-4 (V)	-	
	875.6	8	6	9	23	67	SS-4	-	-	-	-	-	-	-	-	12	A-2-4 (V)	-	
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-046-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 871.5 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.401501, -81.276271	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (13) & CONCRETE (8")	871.5	1																	
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND , LITTLE SILT, TRACE CLAY, DAMP	869.8	2	4																
@3.5'; DENSE, TRACE SILT		3	6	18	61	SS-1	-	54	2	27	11	6	NP	NP	NP	10	A-1-b (0)	100	
@5.0'; VERY DENSE		4	10	17	47	SS-2	-	64	1	22	9	4	NP	NP	NP	8	A-1-b (0)	120	
		5	13	21	65	SS-3	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	-	
		6	22	30	80	SS-4	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	-	
	863.5	7	22	30	80	SS-4	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	-	
		8	23																
		EOB																	

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-047-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 862.7 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.400837, -81.275104	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC			
ASPHALT (9")	862.7																		
STIFF, BROWN, SANDY SILT, SOME GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, DAMP	861.9	1	2																
@2.5'; SOME CLAY, LITTLE STONE FRAGMENTS, MOIST		2	3	11	22	SS-1	0.50	22	10	24	27	17	23	16	7	13	A-4a (2)	190	
@4.0'; "AND" STONE FRAGMENTS, DAMP		3	4	11	61	SS-2	2.00	19	4	23	34	20	25	16	9	19	A-4a (4)	170	
		4	3																
		5	6	14	44	SS-3	1.50	-	-	-	-	-	-	-	-	11	A-4a (V)	-	
		6	4																
	855.7	7	7	20	67	SS-4	1.00	-	-	-	-	-	-	-	-	11	A-4a (V)	-	
		EOB	6																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-048-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 862.5 (ft) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.400298, -81.273881	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT (9")	862.5																		
VERY STIFF, BROWN, SANDY SILT, SOME GRAVEL AND STONE FRAGMENTS, LITTLE CLAY, DAMP @2.5'; STIFF, MOIST @4.0'; DAMP	861.8	1	7																
		2	13	38	22	SS-1	2.50	-	-	-	-	-	-	-	12	A-4a (V)	-		
		3	5	2	9	SS-2	1.50	26	4	20	31	19	27	17	10	18	A-4a (3)	160	
		4	5	4	11	SS-3	2.00	36	4	19	21	20	24	17	7	12	A-4a (1)	190	
	857.0	5	4	3															
STIFF, MOTTLED BROWN AND GRAY, CLAY, "AND" SILT, TRACE SAND, MODERATELY ORGANIC (LOI = 5.8%), MOIST	855.5	6	3	2	8	SS-4	2.00	0	2	7	44	47	43	22	21	25	A-7-6 (13)	-	
		7	3																

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 6 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-049-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 862.9 (ft) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.399650, -81.272738	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (12") & CONCRETE (7")	862.9																	
	861.3	1																
MEDIUM STIFF, MOTTLED BROWN AND GRAY, SILT AND CLAY, LITTLE SAND, LITTLE STONE FRAGMENTS, MOIST		2	2	5	33	SS-1	0.50	16	6	14	34	30	33	20	13	24	A-6a (7)	250
@3.5'; TRACE STONE FRAGMENTS, MODERATELY ORGANIC (LOI = 4.7%)		3	2	1														
	857.9	4	2	6	78	SS-2	0.50	3	2	10	44	41	37	22	15	29	A-6a (10)	110
STIFF, MOTTLED BROWN WITH GRAY, SILTY CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST		5	4	2														
@6.5'; CONTAINS COAL FRAGMENTS		6	3	11	89	SS-3	2.00	4	1	10	44	41	36	19	17	22	A-6b (11)	-
		7	2	4														
	854.9	8	3	12	89	SS-4	1.00	-	-	-	-	-	-	-	-	22	A-6b (V)	-
		EOB	5															

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 8 LB. BENTONITE CHIPS

PROJECT: TUS-250-23.46	DRILLING FIRM / OPERATOR: ODOT / MCINTOSH	DRILL RIG: CME 75 TRUCK	STATION / OFFSET: _____	EXPLORATION ID: B-050-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: ODOT / LEWIS	HAMMER: CME AUTOMATIC	ALIGNMENT: CL US 250	
PID: 102408 SFN: _____	DRILLING METHOD: 3.5" SSA	CALIBRATION DATE: 4/15/20	ELEVATION: 870.7 (ft) EOB: 3.8 ft.	PAGE: 1 OF 1
START: 6/17/20 END: 6/17/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90	LAT / LONG: 40.399081, -81.271534	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	SO4 ppm	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT (12.5) & CONCRETE (7")	870.7																	
VERY STIFF, BROWN, SANDY SILT, SOME CLAY, LITTLE STONE FRAGMENTS, DAMP	869.1	1																
SANDSTONE, GRAYISH BROWN AND BROWN, MODERATELY WEATHERED, WEAK TO SLIGHTLY STRONG, VERY FINE GRAINED.	868.0	2	3			SS-1A	3.00	18	6	26	30	20	24	16	8	13	A-4a (3)	340
	866.9	3	60/3"		80	SS-1B	-	-	-	-	-	-	-	-	-	7	Rock (V)	-
		EOB	60/3"		100	SS-2	-	-	-	-	-	-	-	-	-	6	Rock (V)	-

STANDARD ODOT LOG W/ SULFATE (8.5 X 11) - OH DOT.GDT - 8/25/20 10:40 - X:\GINT\PROJECTS\2020 COMPLETE\0600767.GPJ

NOTES: HOLE REPORTED DRY AT COMPLETION. LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 2 LB. BENTONITE CHIPS