

Project Location
Lorain County, Ohio



0 4000 8000

SCALE IN FEET

Vicinity Map

LOR-90-10.76 Subgrade Exploration
Lorain County, OH


Project: 217525
 Drawing Date: 05-04-2023
 Revision Date: 05-04-2023
 Drawn By: MAK
 Approved By: BKS
 Scale: GRAPHIC

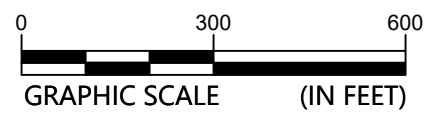


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Drawing path: T:\Columbus-1170\Projects\2021\217525_ODOT D3_LOR-90-10.76 Geotechnical_Sheffield OH\4 GEO\CAD\Construction\Plan of Borings.dwg



LEGEND
 B-001-0-22 BORING NUMBER AND LOCATION



PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO


SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	


2A


Drawing path: T:\Columbus-1170\Projects\2021\217525_ODOT D3_LOR-90-10.76 Geotechnical_Sheffield OH\4 GEO\CAD\Construction\Plan of Borings.dwg



LEGEND

 B-001-0-22 BORING NUMBER AND LOCATION

 N

 0 300 600
GRAPHIC SCALE (IN FEET)



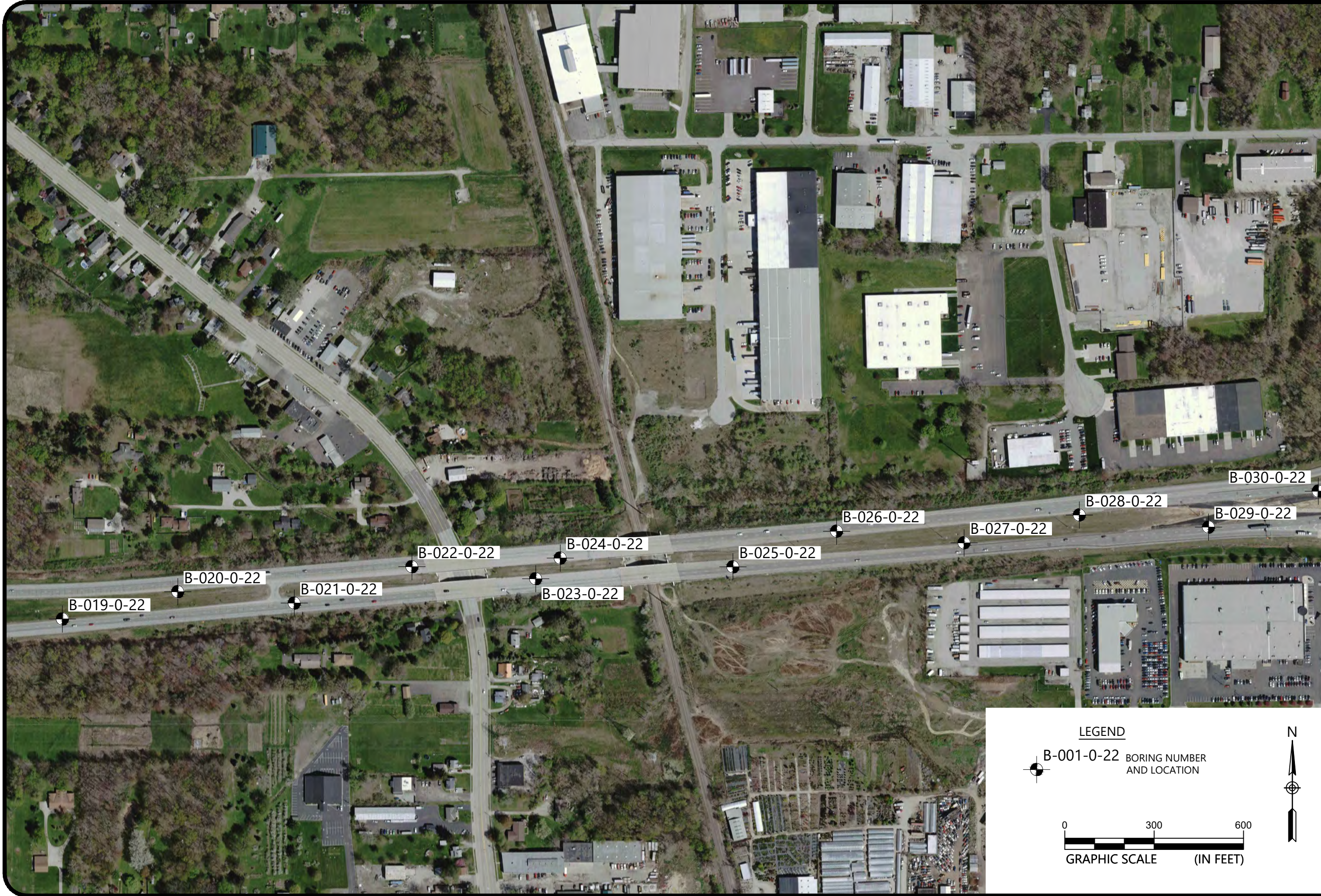
PLAN OF BORINGS


LOR-90-10.76 THIRD LANE WIDENING
SUBGRADE EXPLORATION
LORAIN COUNTY, OHIO

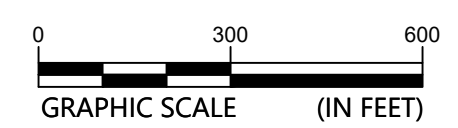
SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

2B

Drawing path: T:\Columbus-1170\Projects\2021\217525_ODOT D3_LOR-90-10.76 Geotechnical_Sheffield OH\4 GEO\CAD\Construction\Plan of Borings.dwg



LEGEND
 B-001-0-22 BORING NUMBER AND LOCATION



PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

2C

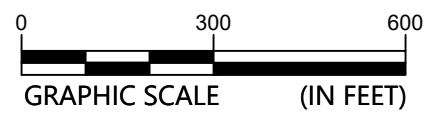
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PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

LEGEND
 B-001-0-22 BORING NUMBER
 AND LOCATION



SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

2D

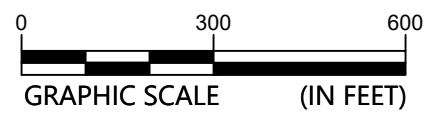
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PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

LEGEND
 B-001-0-22 BORING NUMBER
 AND LOCATION



SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

2E

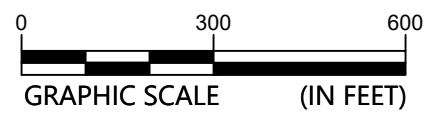
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PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

LEGEND
 B-001-0-22 BORING NUMBER AND LOCATION



SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

2F

Drawing path: T:\Columbus-1170\Projects\2021\217525_ODOT D3_LOR-90-10.76 Geotechnical_Sheffield OH\4 GEO\CAD\Construction\Plan of Borings.dwg



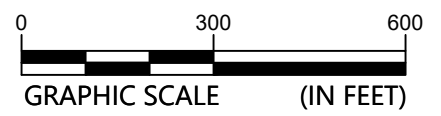
PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	


2G

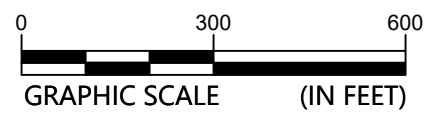
LEGEND
 B-001-0-22 BORING NUMBER AND LOCATION



Drawing path: T:\Columbus-1170\Projects\2021\217525_ODOT D3_LOR-90-10.76 Geotechnical_Sheffield OH\4 GEO\CAD\Construction\Plan of Borings.dwg



LEGEND
 B-001-0-22 BORING NUMBER AND LOCATION



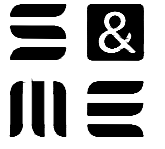
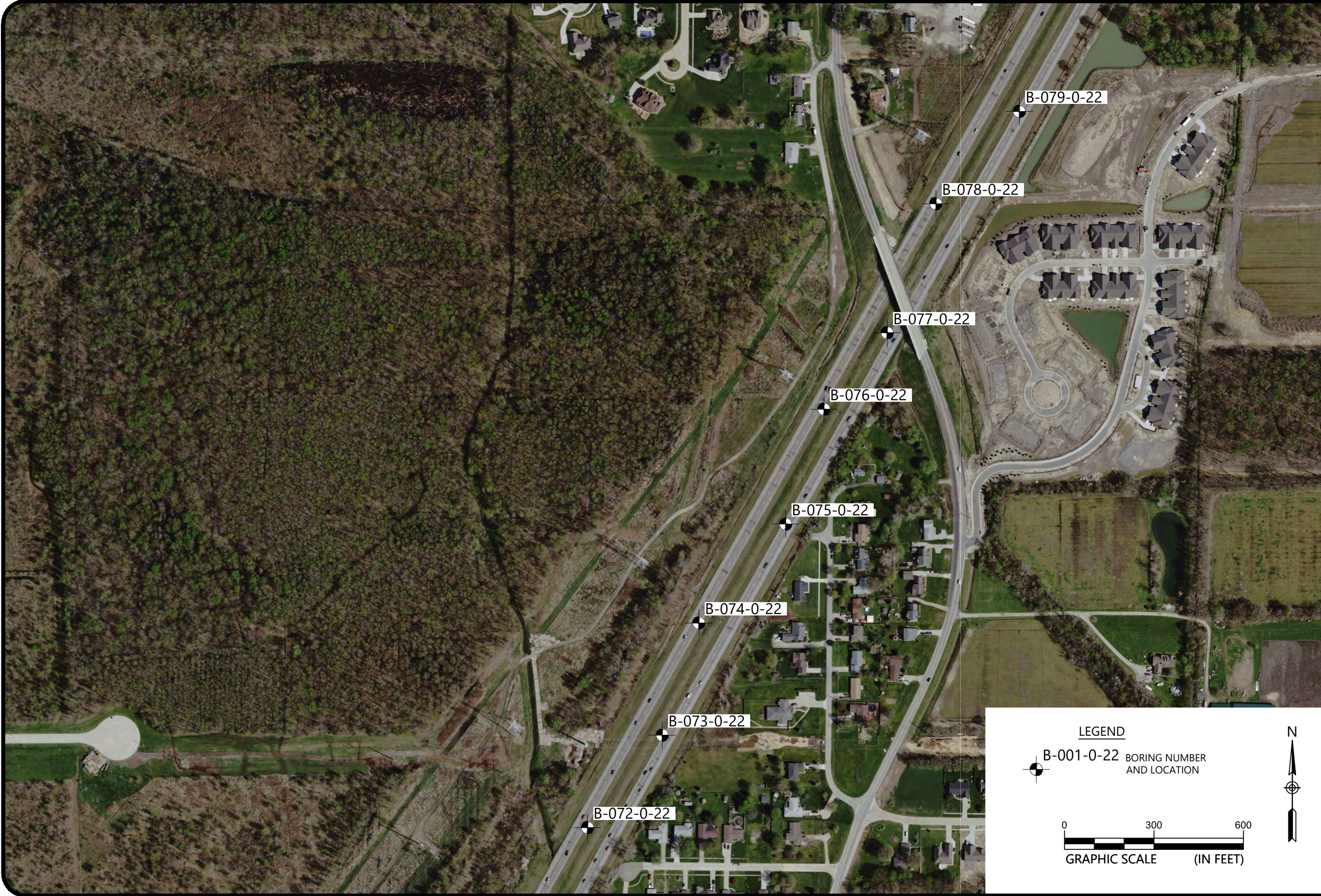
PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

2H

Drawing path: T:\Columbus-1170\Projects\2021\217525_ODOT D3_LOR-90-10.76 Geotechnical_Sheffield OH\4 GEO\CAD\Construction\Plan of Borings.dwg




PLAN OF BORINGS

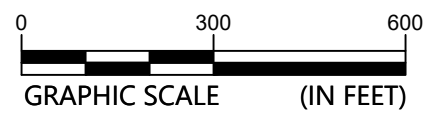
LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

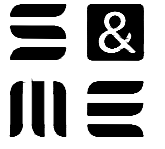
21

LEGEND

 B-001-0-22 BORING NUMBER AND LOCATION




Drawing path: T:\Columbus-1170\Projects\2021\217525_ODOT D3_LOR-90-10.76 Geotechnical_Sheffield OH\4 GEO\CAD\Construction\Plan of Borings.dwg

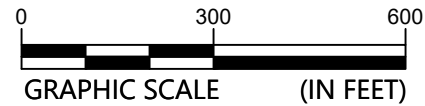


PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
SUBGRADE EXPLORATION
LORAIN COUNTY, OHIO

LEGEND

 B-001-0-22 BORING NUMBER AND LOCATION



GRAPHIC SCALE (IN FEET)



SCALE:
SEE GRAPHIC
DATE:
05-04-2023
PROJECT NUMBER
217525
FIGURE NO.

2J

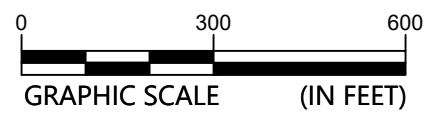
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PLAN OF BORINGS

LOR-90-10.76 THIRD LANE WIDENING
 SUBGRADE EXPLORATION
 LORAIN COUNTY, OHIO

LEGEND
 B-001-0-22 BORING NUMBER AND LOCATION



SCALE:	SEE GRAPHIC
DATE:	05-04-2023
PROJECT NUMBER	217525
FIGURE NO.	

2K



Appendix B

EXPLANATION OF SYMBOLS AND TERMS USED ON BORING LOGS FOR SAMPLING AND DESCRIPTION OF SOIL

SAMPLING DATA

- █ - Indicates sample was attempted within this depth interval.
- 2 - The number of blows required for each 6-inch increment of penetration of a "Standard" 2-inch O.D. split-barrel sampler, driven a distance of 18 inches by a 140-pound hammer freely falling 30 inches (SPT). The raw "blowcount" or "N" is equal to the sum of the second and third 6-inch increments of penetration.
- 3
- 5
- N₆₀ - Corrected Blowcount = [(Drill Rod Energy Ratio) / (0.60 Standard)] X N
- SS - Split-barrel sampler, any size.
- ST - Shelby tube sampler, 3" O.D., hydraulically pushed.
- R - Refusal of sampler in very-hard or dense soil, or on a resistant surface.
- 50-4" - Number of blows (50) to drive a split-barrel sampler a certain distance (4 inches), other than the normal 6-inch increment.

DEPTH DATA

- W - Depth of water or seepage encountered during drilling.
- ▽ - Depth to water in boring at the end of drilling (EOD).
- ▼ 5 days - Depth to water in monitoring well or piezometer in boring a certain number of days (5) after termination of drilling.
- TR - Depth to top of rock.

SOIL DESCRIPTIONS

Soils have been classified in general accordance with Section 603 of the most recent ODOT SGE, and described in general accordance with Section 602, including the use of special adjectives to designate approximate percentages of minor components as follows:

<u>Adjective</u>	<u>Percent by Weight</u>
trace	1 to 10
little	10 to 20
some	20 to 35
"and"	35 to 50

The following terms are used to describe density and consistency of soils:

<u>Term (Granular Soils)</u>	<u>Blows per foot (N₆₀)</u>
Very-loose	Less than 5
Loose	5 to 10
Medium-dense	11 to 30
Dense	31 to 50
Very-dense	Over 50
<u>Term (Cohesive Soils)</u>	<u>Qu (tsf)</u>
Very-soft	Less than 0.25
Soft	0.25 to 0.5
Medium-stiff	0.5 to 1.0
Stiff	1.0 to 2.0
Very-stiff	2.0 to 4.0
Hard	Over 4.0



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 574+85, 36' RT	EXPLORATION ID: B-001-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 751.8 (MSL) EOB: 5.8 ft.	PAGE: 1 OF 1
START: 10/31/22 END: 10/31/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.396094 N, 82.158782 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 3 INCHES	751.5																	
CONCRETE - 11-1/4 INCHES	750.6	1																
GRANULAR BASE - 9 INCHES	749.9	2																
Hard brown to dark brown SILT AND CLAY , little fine to coarse sand, little fine to coarse gravel, damp.	748.3	3	4	8	26	100	SS-1	4.5+	11	4	16	42	27	28	16	12	13	A-6a (8)
Hard brown to gray SANDY SILT , little clay, little fine to coarse sand, "and" fine to coarse gravel, damp.	746.3	4	13	10	42	67	SS-2	4.5+	41	5	13	27	14	24	16	8	9	A-4a (1)
	746.3	5	20	10	22													
SHALE , brown and gray, was severely weathered, weak, fragmented, dry.	746.0	5	20	50-3"	-	100	SS-3A SS-3B	-	-	-	-	-	-	-	-	-	-	8 A-4a (V) Rock (V)

NOTES:

- No groundwater encountered during drilling.
- Recovered pavement core was placed in hole and covered with cold-patch asphalt.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 578+63, 45' LT	EXPLORATION ID: B-002-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 751.0 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.397153 N, 82.158670 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI					
ASPHALT - 6-1/2 INCHES	750.5	w 749.5																		
CONCRETE - 9-1/4 INCHES	749.7																			
GRANULAR BASE - 6 INCHES	749.2																			
Very-stiff to hard brown SANDY SILT , some clay, little fine gravel, moist.	745.0		7	8	17	100	SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)		
			8	7			SS-1B	3.5	17	10	13	38	22	23	15	8	14	A-4a (5)		
Hard brown to gray SANDY SILT , some clay, "and" fine gravel, damp.			4	4	14	39	SS-2	3.0	12	12	14	35	27	25	16	9	14	A-4a (5)		
			5	8	27	100	SS-3	4.5	-	-	-	-	-	-	-	-	-	13	A-4a (V)	
	743.5	EOB	15	20	48	89	SS-4	4.5	-	-	-	-	-	-	-	-	-	7	A-4a (V)	

NOTES:

- Encountered seepage at 1.5'.
- Boring caved at 5.5' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 582+95, 45' RT	EXPLORATION ID: B-003-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 749.5 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 10/31/22 END: 10/31/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.398131 N, 82.157720 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6 INCHES	749.0																	
CONCRETE - 10-1/4 INCHES	748.1	1																
GRANULAR BASE - 7 INCHES	747.5	2																
Very-stiff to hard dark brown SANDY SILT , some clay, trace fine to coarse gravel, few shale fragments, damp.		3	2	13	100	SS-1	-	8	7	15	42	28	26	16	10	13	A-4a (7)	
		4	7	9	26	100	SS-2	-	-	-	-	-	-	-	-	13	A-4a (V)	
		5	20	35	-	100	SS-3	-	20	8	16	39	17	22	15	7	8	A-4a (4)
		6	50-2"															
Stiff brown CLAY , some silt, trace to little fine to coarse sand, trace fine gravel, damp.	743.0	7	2	4	9	100	SS-4	1.25	-	-	-	-	-	-	-	28	A-7-6 (V)	
	741.5	8	3															
		EOB																

NOTES:

- No water was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 586+79, 45' LT	EXPLORATION ID: B-004-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 749.0 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.399149 N, 82.157242 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 6-1/2 INCHES	748.5																		
CONCRETE - 9-1/4 INCHES	747.7	1																	
GRANULAR BASE - 6 INCHES	747.2	2	4			SS-1A	-	-	-	-	-	-	-	-	-	-	-	A-1-a (V)	
Stiff to very-stiff brown SANDY SILT, some clay, little fine gravel, damp.	746.0	3	4	10	44	SS-1B	2.0	11	7	13	39	30	26	16	10	14		A-4a (7)	
Very-stiff brown SILT AND CLAY, some fine to coarse sand, little fine gravel, damp.	741.5	4	4	13	39	SS-2	2.0	17	7	14	37	25	28	16	12	14		A-6a (6)	
		5	6	7	20	100	SS-3	3.0	-	-	-	-	-	-	-	-	13	A-6a (V)	
		6	12	10															
		7	14	17	36	100	SS-4	3.0	-	-	-	-	-	-	-	-	8	A-6a (V)	

NOTES:

- Boring caved at 5.4' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 590+98, 46' RT	EXPLORATION ID: B-005-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 747.6 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 10/31/22 END: 10/31/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.399859 N, 82.155998 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6-1/2 INCHES	747.1																	
CONCRETE - 9-1/2 INCHES	746.3	1																
GRANULAR BASE - 8 INCHES	745.6	2																
Hard brown to gray SANDY SILT , some clay, little fine to coarse gravel, damp.	744.1	3	9	17	34	100	SS-1	4.5+	20	6	15	35	24	24	15	9	10	A-4a (5)
Hard brown mottled with gray SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.	742.6	4	6	6	17	100	SS-2	4.5+	1	3	16	44	36	38	20	18	19	A-6b (11)
Very-stiff to hard brown mottled with gray CLAY , some silt, little fine to coarse sand, trace fine gravel, damp.		5	7	7	22	100	SS-3	4.5+	-	-	-	-	-	-	-	-	23	A-7-6 (V)
		6	7	7	10													
		7	3	5	16	100	SS-4	2.5-4.5	-	-	-	-	-	-	-	-	26	A-7-6 (V)
	739.6	8	7															

EOB

NOTES:

- No groundwater was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 594+67, 45' LT	EXPLORATION ID: B-006-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 747.0 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.400715 N, 82.155208 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6-1/2 INCHES	747.0																	
CONCRETE - 9-1/2 INCHES	745.7	1																
GRANULAR BASE - 7-1/2 INCHES	745.2	2	4			SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)	
Very-stiff brown SILT AND CLAY , little fine to coarse sand, some fine to coarse gravel damp.		3	6	28	72	SS-1B	3.0	31	8	12	29	20	28	17	11	15	A-6a (3)	
		4	10	23	39	SS-2	-	35	5	11	34	15	25	14	11	11	A-6a (3)	
		5	6	4	9	100	SS-3	2.5	-	-	-	-	-	-	-	-	12	A-6a (V)
Very-stiff brown SILTY CLAY , little fine to coarse sand, trace fine gravel damp.	741.0	6	5	4														
	739.5	7	8	22	100	SS-4	2.0-4.0	-	-	-	-	-	-	-	-	-	20	A-6b (V)
		EOB	11															

NOTES:

- No groundwater was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWPROJ\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 598+86, 45' RT	EXPLORATION ID: B-007-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 745.7 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 10/31/22 END: 10/31/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.401144 N, 82.153756 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6-1/4 INCHES	745.2																	
CONCRETE - 9 INCHES	744.4	1																
GRANULAR BASE - 8 INCHES	743.7	2																
Hard dark-brown SANDY SILT , some fine to coarse sand, trace fine to coarse gravel, damp. - few cobbles below 3.5', damp.		3	8	10	25	100	SS-1	4.5+	10	6	16	41	27	25	15	10	10	A-4a (7)
		4	10	8	20	33	SS-2	4.5+	-	-	-	-	-	-	-	-	13	A-4a (V)
	740.7	5	7	7	18	100	SS-3	2.0 - 3.25	1	2	15	42	40	46	17	29	24	A-7-6 (17)
Very-stiff dark-brown mottled with gray CLAY , "and" silt, little fine to coarse sand, trace fine gravel, damp.	739.2	6	7	7	18	100	SS-3	2.0 - 3.25	1	2	15	42	40	46	17	29	24	A-7-6 (17)
Very-dense gray GRAVEL WITH SAND, SILT AND CLAY , damp.	737.7	7	17	27	77	100	SS-4	-	-	-	-	-	-	-	-	-	12	A-2-6 (V)
	737.7	8	27	32	77	100	SS-4	-	-	-	-	-	-	-	-	-	12	A-2-6 (V)
		EOB																

NOTES:

- No groundwater encountered during drilling.
- Recovered pavement core was placed in hole and covered with cold-patch asphalt.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 602+98, 44' LT	EXPLORATION ID: B-008-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 744.8 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.401848 N, 82.152542 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6-3/4 INCHES	744.3																	
CONCRETE - 9-1/4 INCHES	743.5	1																
GRANULAR BASE - 2 INCHES	743.3	2	9															
Medium-dense brown GRAVEL WITH SAND, SILT AND CLAY , damp.	741.8	3	11 15	30	100	SS-1	-	52	7	8	18	15	28	16	12	12	A-2-6 (0)	
Very-dense brown SANDY SILT , little clay, some fine gravel, damp.	740.3	4	12 23 23	54	100	SS-2	-	34	10	19	26	11	NP	NP	NP	9	A-4a (0)	
Stiff to very-stiff dark-brown and black CLAY , some silt, trace fine to coarse sand, trace fine gravel, slight organic odor (LOI = 1.7%), moist.	737.3	5	8 7 8	17	100	SS-3	1.5-3.0	-	-	-	-	-	-	-	-	41	A-7-6 (V)	
		6	7 7	16	100	SS-4	1.0-3.0	-	-	-	-	-	-	-	-	23	A-7-6 (V)	
		7	7	7														

NOTES:

- No groundwater was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 606+89, 45' RT	EXPLORATION ID: B-009-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 748.1 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 10/31/22 END: 11/1/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.402005 N, 82.151092 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 3 INCHES	748.1																	
CONCRETE - 9-1/2 INCHES	747.8																	
GRANULAR BASE - 8 INCHES	747.1	W 746.6																
Very-stiff to hard brown and dark-brown SILT AND CLAY , little to some fine to coarse sand, trace to some fine to coarse gravel, damp. @ 5.5' possible cobble encountered	746.4		4															
			8	13	67	SS-1	4.5+	25	3	6	49	17	27	15	12	10	A-6a (7)	
			7	20	44	SS-2	4.5+	6	6	16	40	32	28	15	13	13	A-6a (9)	
			7	21	44	SS-3	2.75 - 3.25	-	-	-	-	-	-	-	-	-	17	A-6a (V)
			10	19	100	SS-4	2.75 - 4.0	-	-	-	-	-	-	-	-	15	A-6a (V)	
	740.1	EOB	6															

NOTES:

- Encountered seepage at 1.5' during drilling
- Boring caved at 5.5' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 610+83, 45' LT	EXPLORATION ID: B-010-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE - WEST	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 757.2 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.402623 N, 82.149866 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 4-1/2 INCHES	756.8																	
CONCRETE - 9-1/4 INCHES	756.1																	
GRANULAR BASE - 5 INCHES	755.7																	
Very-stiff brown SILT AND CLAY , trace to little fine to coarse sand, little fine gravel, damp.	754.2	1	4	15	100	SS-1	2.5	16	5	15	35	29	29	14	15	16	A-6a (8)	
Very-dense brown GRAVEL WITH SAND AND SILT , trace clay, damp.	752.7	2	8	60	100	SS-2	-	53	7	9	23	8	22	17	5	7	A-2-4 (0)	
Very-stiff brown SILT AND CLAY , little fine to coarse sand, trace to little fine gravel, damp.	749.7	3	19	17	100	SS-3	3.0	-	-	-	-	-	-	-	-	17	A-6a (V)	
		4	8	7														
		5	12	16	100	SS-4	3.0	-	-	-	-	-	-	-	-	12	A-6a (V)	
		6	8															
		7	6															

EOB

NOTES:

- No ground water was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 615+14, 20' LT	EXPLORATION ID: B-011-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 EASTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 762.9 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 10/31/22 END: 11/1/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.402778 N, 82.148258 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 4-1/4 INCHES	762.6																	
CONCRETE - 10-1/4 INCHES	761.7	1																
GRANULAR BASE - 8 INCHES	761.0	2																
Hard dark brown SANDY SILT , little to some clay, little to some fine to coarse gravel, damp.		3	4	8	41	39	SS-1	4.5+	-	-	-	-	-	-	-	-	7	A-4a (V)
		4	10	14	31	100	SS-2	4.5+	22	6	19	34	19	24	16	8	11	A-4a (4)
		5	5	8	28	100	SS-3	4.5+	15	8	13	37	27	24	14	10	11	A-4a (6)
		6	10	11	40	100	SS-4	4.5+	-	-	-	-	-	-	-	-	10	A-4a (V)
	754.9	EOB	8	17														

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 618+95, 3' LT	EXPLORATION ID B-012-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 WESTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 772.5 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403418 N, 82.147102 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6-1/2 INCHES	772.0																	
CONCRETE - 9-1/2 INCHES	771.2	1																
GRANULAR BASE - 8 INCHES	770.5	2	8			SS-1A	-	-	-	-	-	-	-	-	-	-	-	A-1-a (V)
Medium-dense brown GRAVEL WITH SAND AND SILT , little clay, damp.	769.5	3	8 10	21	100	SS-1B	-	44	10	12	22	12	NP	NP	NP	12	A-2-4 (0)	
Very-stiff brown SANDY SILT , some fine to coarse gravel, little clay, damp.		4	10 18 13	36	100	SS-2	2.0	22	10	16	36	16	24	17	7	13	A-4a (3)	
		5	10 15	28	100	SS-3	3.0	-	-	-	-	-	-	-	-	11	A-4a (V)	
		6	13 11	9														
		7	13 11 15	30	100	SS-4	4.0	-	-	-	-	-	-	-	-	11	A-4a (V)	
	765.0	EOB																

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 622+83, 21' LT	EXPLORATION ID B-013-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 EASTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 758.9 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 11/1/22 END: 11/1/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.403168 N, 82.145496 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6-1/2 INCHES	758.4																	
CONCRETE - 9-1/2 INCHES	757.6	1																
GRANULAR BASE - 8 INCHES	756.9	2																
Hard brown to dark brown SILT AND CLAY , some fine to coarse sand, little fine to coarse gravel, trace to , damp.	753.9	3	1	6	20	67	SS-1	4.5+	14	4	20	37	25	29	15	14	15	A-6a (7)
		4	10	13	38	100	SS-2	4.5+	-	-	-	-	-	-	-	-	10	A-6a (V)
		5	7	10	31	33	SS-3	-	42	7	10	24	17	27	16	11	8	A-6a (1)
Hard reddish brown SILT AND CLAY , "and" fine to coarse gravel, little fine to coarse sand, damp. @ 5.4' possible cobble encountered	750.9	6	10	12														
		7	10	18	97	100	SS-4	4.5+	-	-	-	-	-	-	-	-	12	A-6a (V)
		8	10	50														

NOTES:

- No groundwater encountered during drilling.
- Recovered pavement core was placed in hole and covered with cold-patch asphalt.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 610+72, 9' LT	EXPLORATION ID B-013-1-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 EASTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 752.2 (MSL) EOB: 7.9 ft.	PAGE 1 OF 1
START: 11/1/22 END: 11/1/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.405294 N, 82.147643 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 8-1/4 INCHES	751.5																		
CONCRETE - 9-1/2 INCHES	750.7	1																	
GRANULAR BASE - 6 INCHES	750.2	2																	
Medium-dense brown to reddish brown SANDY SILT , trace to some fine to coarse gravel, little clay, damp.	747.9	3	4	8	20	72	SS-1	4.5+	21	9	25	26	19	23	14	9	11	A-4a (2)	
Hard reddish-brown mottled gray SILT AND CLAY , some fine to coarse sand, trace fine to coarse gravel, damp.	744.3	4	7	10	30	100	SS-2A	4.5+	2	11	49	24	14	16	13	3	7	A-4a (1)	
		5	5	7	43	100	SS-2B	4.5+	4	6	20	38	32	27	15	12	13	A-6a (8)	
@ 6.2' possible cobble encountered @ 6.5' becoming similar to highly weathered shale		6	32	7	23		SS-3	4.5+	-	-	-	-	-	-	-	-	-	17	A-6a (V)
		7	48	32			SS-4	4.5+	-	-	-	-	-	-	-	-	-	9	A-6a (V)
			50-5"																

EOB

NOTES:

- No groundwater encountered during drilling.
- Recovered pavement core was placed in hole and covered with cold-patch asphalt.

NOTES: SEE ABOVE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 618+35, 9' LT	EXPLORATION ID: B-013-2-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 EASTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 744.2 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 11/1/22 END: 11/1/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.404126 N, 82.145339 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 4 INCHES	744.2																		
CONCRETE - 9-3/4 INCHES	743.1	1																	
GRANULAR BASE - 7 INCHES	742.5	2																	
Hard reddish brown SANDY SILT , some clay, little fine to coarse gravel, damp.	740.7	3	4	7	28	100	SS-1	4.5+	12	2	22	41	23	24	15	9	15	A-4a (6)	
Medium-dense brown GRAVEL WITH SAND AND SILT , trace clay, damp.	739.2	4	14	7	16	100	SS-2	-	31	9	32	21	7	NP	NP	NP	10	A-2-4 (0)	
Medium-stiff to stiff dark brown SILTY CLAY , little fine to coarse sand, trace fine gravel, moist becoming wet.	737.7	5	9	3	10	33	SS-3	0.75	-	-	-	-	-	-	-	-	-	17	A-6b (V)
	736.2	6	2	4															
		7	5	8	19	100	SS-4	1.25	-	-	-	-	-	-	-	-	-	21	A-6b (V)
		8	8																

NOTES:

- Groundwater encountered at 6.5' during drilling.
- Boring did not cave after removing augers and water was measured at 5.0'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



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PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 622+42, 11' LT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 EASTBOUND	B-013-3-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 742.6 (MSL) EOB: 9.5 ft.	PAGE
START: 11/1/22 END: 11/2/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.403615 N, 82.144026 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 17 1/4 INCHES	742.6	1																
GRANULAR BASE - 6 INCHES	741.2 740.6	2																
Medium-dense to dense brown SANDY SILT , trace to little clay, little fine to coarse gravel, damp.		3	6	13	41	100	SS-1	-	17	13	31	29	10	NP	NP	NP	11	A-4a (1)
		4	10	7	23	67	SS-2	-	13	4	39	30	14	NP	NP	NP	16	A-4a (2)
	737.6	5	4															
Loose to medium-dense brown to dark-brown SANDY SILT , little to some clay, little fine gravel, wet.		6	3	3	6	33	SS-3	-	-	-	-	-	-	-	-	-	13	A-4a (V)
		7	1	2	7	100	SS-4	-	-	-	-	-	-	-	-	-	22	A-4a (V)
		8	2	3														
	733.1	9	3	5	11	100	SS-5	-	-	-	-	-	-	-	-	-	17	A-4a (V)
		EOB																

NOTES:

- Groundwater encountered at 6.5' during drilling.
- Boring did not cave after removing augers and water was measured at 8.0'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 627+41, 2' LT	EXPLORATION ID: B-014-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 WESTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 759.7 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403863 N, 82.144095 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 12 INCHES	759.7																		
GRANULAR BASE - 12 INCHES	758.7	1																	
Very-stiff brown SILT AND CLAY , little fine to coarse sand, many shale fragments, damp.	757.4	2	6																
		3	7	20	100	SS-1	3.0	-	-	-	-	-	-	-	10	A-6a (V)			
		4	7	9	24	100	SS-2	3.0	47	5	7	27	14	27	16	11	9	A-6a (1)	
		5	6	7	16	100	SS-3	3.5	41	4	8	30	17	27	15	12	11	A-6a (3)	
		6	8	5	16	100	SS-4	-	-	-	-	-	-	-	-	-	13	A-6a (V)	
	751.7	EOB	8																

NOTES:

- Encountered heavy seepage at 3.5' and 6'.
- Encountered Water at 3.5'
- Boring caved at 5.5' after removing augers and water was measured at 3.0'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



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PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 614+92, 74' LT	EXPLORATION ID: B-014-1-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 WESTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 758.8 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/6/23 END: 3/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.405808 N, 82.148290 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 14-1/2 INCHES	758.8																		
GRANULAR BASE - 5 INCHES	757.6	1																	
Medium-dense dark-brown SANDY SILT , little clay, damp.	757.2	2	17	10	20	44	SS-1	-	0	8	36	37	19	21	15	6	13	A-4a (4)	
Medium-dense brown GRAVEL WITH SAND AND SILT , little clay, damp.	755.3	3	8	8	15	33	SS-2	-	25	9	33	19	14	19	13	6	12	A-2-4 (0)	
Stiff to very-stiff brown to reddish brown SILTY CLAY , some fine to coarse sand, damp.	753.8	4	4	8	24	61	SS-3	1.5-4.0	-	-	-	-	-	-	-	-	-	18	A-6b (V)
		5	14	9	23	89	SS-4	1.5-2.0	-	-	-	-	-	-	-	-	-	15	A-6b (V)
	750.8	7																	
		8																	

NOTES:

- Encountered seepage at 6.6' during drilling.
- Boring caved at 5.5' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 621+53, 103' LT	EXPLORATION ID: B-014-2-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 WESTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 746.1 (MSL) EOB: 4.8 ft.	PAGE: 1 OF 1
START: 3/6/23 END: 3/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.405069 N, 82.146426 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 7-3/4 INCHES	745.4																	
CONCRETE - 10 INCHES	744.6	1																
GRANULAR BASE - 6 INCHES	744.1	2																
Stiff to hard brown to light-brown SILT AND CLAY , little to some fine to coarse sand, trace to little fine to coarse gravel, damp. @ 2.6' to 3.1' coarse sandstone fragments	741.3	3	3			SS-1A	1.5	2	5	13	43	37	28	15	13	13	A-6a (9)	
		4	4	63	72	SS-1B	3.5	-	-	-	-	-	-	-	-	6	A-1-a (V)	
		4	24		60	SS-2	4.5	11	9	18	41	21	25	14	11	20	A-6a (6)	
		EOB																

NOTES:

- Encountered auger refusal on sandstone at 4.8'.
- Boring caved at 3.4' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 625+76, 109' LT	EXPLORATION ID: B-014-3-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 WESTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 743.3 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/6/23 END: 3/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404410 N, 82.144231 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 8 INCHES	743.3																	
CONCRETE - 9-1/2 INCHES	742.6	1																
GRANULAR BASE - 7 INCHES	741.9	2																
Very-stiff to hard brown to dark-brown CLAY , some silt, some fine to coarse sand, little fine gravel, damp.	741.3																	
	740.6	3	3	10	28	67	SS-1A	3.5	11	4	23	35	27	42	11	31	20	A-7-6 (14)
Medium-dense brown to light-brown GRAVEL WITH SAND AND SILT , trace clay, damp.		4	20	25	49	100	SS-1B	-	-	-	-	-	-	-	-	-	10	A-2-4 (V)
	738.3	5	14	17	40	56	SS-2	-	29	7	34	22	8	NP	NP	NP	8	A-2-4 (0)
Very-stiff brown to light-brown SANDY SILT , some clay, trace fine gravel, damp.		6	14	17	40	56	SS-3	3.5	-	-	-	-	-	-	-	-	11	A-4a (V)
	735.3	7	9	6	14	11	SS-4	-	-	-	-	-	-	-	-	-	13	A-4a (V)
		8	6	6	14	11												

EOB

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWPROJ\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 629+63, 107' LT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 WESTBOUND	B-014-4-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 741.4 (MSL) EOB: 8.0 ft.	PAGE
START: 3/6/23 END: 3/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404089 N, 82.142787 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT 8 INCHES	740.7																	
CONCRETE - 8-1/2 INCHES	740.0	1																
GRANULAR BASE - 6 INCHES	739.5	2																
Hard brown SILT AND CLAY , trace to little fine to coarse sand, little fine gravel, damp.	737.9	3	4	6	23	100	SS-1	4.5	13	6	16	38	27	39	24	15	10	A-6a (8)
Medium-dense to very-dense brown SANDY SILT , little fine to coarse gravel, little clay, damp.	734.9	4	24	50-5"	-	100	SS-2	-	20	10	24	34	12	NP	NP	NP	8	A-4a (2)
		5	17															
	734.9	6	9	7	19	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-4a (V)
Very-stiff brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, moist.	733.4	7	9	7	16	100	SS-4	2.0-2.5	-	-	-	-	-	-	-	-	17	A-6a (V)
		8	7	7														

EOB

NOTES:

- No groundwater was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 626+25, 10' LT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 EASTBOUND	B-015-0-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 741.2 (MSL) EOB: 8.0 ft.	PAGE
START: 11/2/22 END: 11/2/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.403295 N, 82.142707 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 8 INCHES	740.5																		
CONCRETE - 9-3/4 INCHES	739.7	1																	
GRANULAR BASE - 6 INCHES	739.2	2																	
Medium-dense dark brown GRAVEL WITH SAND AND SILT , little clay, damp.	737.7	3	5	7	21	39	SS-1	-	34	14	28	13	11	NP	NP	NP	9	A-2-4 (0)	
Stiff dark brown SILT , little clay, trace fine to coarse sand, trace fine gravel, damp.	736.2	4	5	7	19	100	SS-2	1.75-2.0	1	7	9	64	19	22	14	8	14	A-4b (8)	
Stiff to very-stiff dark brown SILTY CLAY , little to some fine to coarse sand, trace fine gravel, damp.		5	3	4	11	100	SS-3	2.5-3.0	-	-	-	-	-	-	-	-	-	18	A-6b (V)
		6	4	4															
	733.2	7	4	5	16	100	SS-4	1.5-2.0	-	-	-	-	-	-	-	-	-	24	A-6b (V)
		8	6																

EOB

NOTES:

- No groundwater encountered during drilling.
- Recovered pavement core was placed in hole and covered with cold-patch asphalt.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 634+66, 57' LT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 WESTBOUND	B-016-0-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 739.7 (MSL) EOB: 8.0 ft.	PAGE
START: 3/6/23 END: 3/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403862 N, 82.141443 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 6-3/4 INCHES	739.1																		
CONCRETE - 9-1/2 INCHES	738.4	1																	
GRANULAR BASE - 8 INCHES	737.7	2																	
Very-stiff brown SILT AND CLAY , little to some fine to coarse sand, trace to some fine to coarse gravel, damp.		3	10	6	17	44	SS-1	2.0-4.5	3	7	24	34	32	30	15	15	14	A-6a (8)	
		4	10	21	60	100	SS-2	2.5	24	6	14	37	19	25	14	11	9	A-6a (5)	
		5	22	14	33	72	SS-3	2.5	-	-	-	-	-	-	-	-	-	11	A-6a (V)
		6	16	14	36	100	SS-4	4.0	-	-	-	-	-	-	-	-	-	18	A-6a (V)
		7	14	17															
	731.7	8																	

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 634+46, 9' LT	EXPLORATION ID: B-017-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 2 EASTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 737.4 (MSL) EOB: 6.6 ft.	PAGE: 1 OF 1
START: 11/2/22 END: 11/2/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.403169 N, 82.139744 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 7-3/4 INCHES	737.4																	
CONCRETE - 9-1/2 INCHES	736.0	1																
GRANULAR BASE - 6 INCHES	735.5	2																
Very-stiff reddish brown to gray SANDY SILT , some clay, little fine to coarse gravel, damp.	733.9	3	4	7	20	100	SS-1	3.0-3.25	13	3	24	35	25	26	16	10	14	A-4a (5)
Hard gray CLAY , some silt, some fine to coarse sand, trace fine gravel, damp.	732.4	4	5	7	44	67	SS-2	4.5+	3	5	16	29	47	41	20	21	20	A-7-6 (13)
Very-dense brown and reddish-brown GRAVEL WITH SAND (severely weathered sandstone fragments), trace silt, trace clay, dry.	730.8	5	50-5"			100	SS-3		-	-	-	-	-	-	-	-	6	A-1-b (V)
		6																
		EOB	50-1"			0	SS		-	-	-	-	-	-	-	-	-	

NOTES:

- No groundwater noted during drilling.
- Recovered pavement core was placed in hole and covered with cold-patch asphalt.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 643+24, 4' LT	EXPLORATION ID: B-018-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 WESTBOUND	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 735.9 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/1/23 END: 3/1/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403603 N, 82.138338 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 7 INCHES	735.3																		
CONCRETE - 9-1/2 INCHES	734.5	1																	
GRANULAR BASE - 7 INCHES	733.9	2																	
Very-stiff brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	732.4	3	4	6	14	100	SS-1	3.0-3.5	5	5	29	32	29	29	17	12	14	A-6a (6)	
Very-stiff to hard brown and gray SILTY CLAY , some fine to coarse sand, trace fine to coarse gravel, damp.	732.4	4	6	8	19	100	SS-2	3.0	9	4	19	35	33	28	11	17	16	A-6b (9)	
		5	9	12	30	100	SS-3	4.5	-	-	-	-	-	-	-	-	-	12	A-6b (V)
	727.9	6	15	17	43	100	SS-4	4.5	-	-	-	-	-	-	-	-	-	11	A-6b (V)
		7	17	20															
		8																	

NOTES:

- No groundwater encountered during drilling.
- Boring caved at 5' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME ATV D50 (R80)	STATION / OFFSET: 650+24, 44' RT	EXPLORATION ID B-021-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	PAGE 1 OF 1
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/6/22	ELEVATION: 744.6 (MSL) EOB: 8.0 ft.	
START: 11/2/22 END: 11/2/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.403513 N, 82.134011 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 7-3/4 INCHES	744.6																	
CONCRETE - 9-3/4 INCHES	743.1	1																
GRANULAR BASE - 6-1/2 INCHES	742.6	2																
FILL: Medium-dense brown GRAVEL WITH SAND , little silt, little clay, damp.	741.1	3	10															
		4	10	26	100	SS-1	-	17	35	24	12	12	20	14	6	9	A-1-b (0)	
Very-stiff reddish brown SILT AND CLAY , some fine to coarse sand, trace to little fine gravel, damp.		5	8															
		6	8	26	100	SS-2	3.5 - 4.0	11	13	16	27	33	33	18	15	11	A-6a (7)	
		7	3															
		8	5	20	67	SS-3	3.0 - 4.0	-	-	-	-	-	-	-	-	17	A-6a (V)	
		7	8															
	736.6	8	12	38	100	SS-5	4.0	-	-	-	-	-	-	-	-	10	A-6a (V)	
		EOB	15															

NOTES:

- No groundwater encountered during drilling.
- Recovered pavement core was placed in hole and covered with cold-patch asphalt.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 654+27, 45' LT	EXPLORATION ID: B-022-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 747.5 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403843 N, 82.132570 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-3/4 INCHES	747.0																	
CONCRETE - 9-1/4 INCHES	746.2	1																
GRANULAR BASE - 5 INCHES	745.8	2	2			SS-1A	-	-	-	-	-	-	-	-	-	-	-	A-1-a (V)
Medium-dense brown to reddish brown SANDY SILT , some clay, little fine to coarse sand, trace to little fine gravel, damp.		3	3	10	33	SS-1B	2.0-3.0	9	16	15	37	23	27	18	9	11		A-4a (5)
		4	8	8	19	100	SS-2	2.5-3.5	16	10	17	32	25	25	15	10	11	A-4a (4)
		5	8	7	14	100	SS-3	3.0-3.5	-	-	-	-	-	-	-	-	10	A-4a (V)
Hard brown SILTY CLAY , little fine to coarse sand, trace fine gravel, damp to moist.	741.5	6	9	5														
	740.0	7	8	20	100	SS-4	4.5	-	-	-	-	-	-	-	-	19		A-6b (V)

EOB

NOTES:

- No groundwater encountered during drilling.
- Boring caved at 6.5' after auger removal and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 658+38, 30' RT	EXPLORATION ID: B-023-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 746.7 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403727 N, 82.131056 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 16 INCHES	746.7																		
GRANULAR BASE - 8 INCHES	745.4	1																	
Medium-dense brown GRAVEL , some fine to coarse sand, little silt, trace clay, damp. Very-stiff to hard brown SANDY SILT , some clay, little fine gravel, damp.	744.7	2	15	19	100	SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)		
	743.7	3	9	7		SS-1B	-	58	17	10	11	4	-	-	-	6	A-1-a (V)		
		4	5	8	15	100	SS-2	2.5-3.5	18	11	12	32	27	27	17	10	11	A-4a (5)	
		5	7	9	11	23	100	SS-3	3.5-4.5	-	-	-	-	-	-	-	-	13	A-4a (V)
		6	9	11	13	28	100	SS-4	4.5+	-	-	-	-	-	-	-	-	13	A-4a (V)
	739.2	7																	

EOB

NOTES:

- No water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\LEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 659+26, 32' LT	EXPLORATION ID: B-024-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 746.1 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403917 N, 82.130753 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 15-1/2 INCHES	746.1																	
GRANULAR BASE - 7 INCHES	744.8	1																
Very-stiff brown SILT AND CLAY , some fine to coarse sand, little fine gravel, damp. Stiff to very-stiff brown to gray SANDY SILT , little clay, trace fine gravel, damp.	744.2	2	16	19	100	SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)	
	743.1	3	10	6		SS-1B	3.0	19	16	10	29	26	31	17	14	11	A-6a (6)	
		4	11	10	24	67	SS-2	1.0-2.0	4	31	19	26	20	22	15	7	11	A-4a (2)
	5	8	7	16	100	SS-3	2.5	-	-	-	-	-	-	-	-	-	12	A-4a (V)
	6	8	7	14	100	SS-4	2.0-2.5	-	-	-	-	-	-	-	-	-	13	A-4a (V)
	738.6	7	5															

EOB

NOTES:
- No groundwater encountered during drilling.

NOTES: SEE ABOVE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 665+01, 46' RT	EXPLORATION ID: B-025-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 737.9 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.403829 N, 82.128642 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 8-3/4 INCHES	737.2																	
CONCRETE - 9-1/4 INCHES	736.4	1																
GRANULAR BASE - 6 INCHES	735.9	2	15			SS-1A		-	-	-	-	-	-	-	-	-	A-1-a (V)	
Very-stiff to hard brown SILT AND CLAY , some fine to coarse sand, trace to little fine gravel, damp.		3	8	21	100	SS-1B	-	-	-	-	-	-	-	-	-	-	11	A-6a (V)
		4	9	19	100	SS-2	2.0-3.5	17	22	12	25	24	33	21	12	9	A-6a (3)	
		5	7	9	23	100	SS-3	3.5	10	16	13	37	24	28	17	11	10	A-6a (6)
		6	7	9	23	100	SS-3	3.5	10	16	13	37	24	28	17	11	10	A-6a (6)
		7	7	8	21	100	SS-4	4.5	-	-	-	-	-	-	-	-	-	12
	730.4	7	8	21	100	SS-4	4.5	-	-	-	-	-	-	-	-	-	12	A-6a (V)

NOTES:

- No water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 668+58, 45' LT	EXPLORATION ID B-026-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 728.9 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404154 N, 82.127371 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 7-3/4 INCHES	728.3																	
CONCRETE - 9-1/4 INCHES	727.5	1																
GRANULAR BASE - 6 INCHES	727.0	2	16			SS-1A	-	-	-	-	-	-	-	-	-	-	-	A-1-a (V)
Very-stiff to hard SILT AND CLAY , some fine to coarse sand, trace to little fine to coarse gravel, damp.		3	5	12	100	SS-1B	-	-	-	-	-	-	-	-	-	-	15	A-6a (V)
		4	3	8	100	SS-2	2.0	16	16	11	32	25	29	17	12	13	A-6a (5)	
		5	9	20	100	SS-3	4.5	9	13	13	31	34	29	16	13	12	A-6a (7)	
		6	10	8	21	100	SS-4	4.5	-	-	-	-	-	-	-	-	12	A-6a (V)
		7	10	8	21	100	SS-4	4.5	-	-	-	-	-	-	-	-	12	A-6a (V)
	721.4	EOB																

NOTES:

- No water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 672+78, 26' RT	EXPLORATION ID: B-027-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 716.6 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404042 N, 82.125811 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 2 INCHES	716.6																	
Very-stiff brown SILTY CLAY , some fine gravel, little fine to coarse sand, damp.	716.6	1	5	12	67	SS-1	3.0	22	13	7	29	29	39	19	20	12	A-6b (9)	< >
Very-stiff to hard brown SILT AND CLAY , little fine to coarse sand, trace fine gravel, damp.		2	7	27	67	SS-2	3.5	6	7	10	40	37	31	16	15	17	A-6a (10)	< >
		3	10	35	100	SS-3	4.0	-	-	-	-	-	-	-	-	15	A-6a (V)	< >
		4	8	15	100	SS-3	4.0	-	-	-	-	-	-	-	-	15	A-6a (V)	< >
		5	15	19	100	SS-4	4.5	-	-	-	-	-	-	-	-	9	A-6a (V)	< >
	710.1	6	14	9	7													< >

NOTES:

- No water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 676+18, 32' LT	EXPLORATION ID: B-028-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 705.5 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404294 N, 82.124399 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 2 INCHES	705.5																	
Very-stiff to hard brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.		1	3															< < <
		2	4	10	100	SS-1	2.0-3.5	9	9	14	40	28	28	16	12	13	A-6a (7)	> > >
		3	7	20	100	SS-2	3.0-4.5	8	10	15	35	32	28	13	15	14	A-6a (8)	> > >
		4	11	27	100	SS-3	3.0-3.5	-	-	-	-	-	-	-	-	15	A-6a (V)	> > >
		5	18	31	100	SS-4	2.0	-	-	-	-	-	-	-	-	15	A-6a (V)	> > >
		6	15	12														
	699.0	EOB																> > >

NOTES:

- Boring caved at 5' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 681+04, 45' RT	EXPLORATION ID: B-029-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 699.4 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404176 N, 82.122819 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 8 INCHES	698.7																	
CONCRETE - 9 INCHES	698.0	1																
GRANULAR BASE - 4 INCHES	697.6	2	8			SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)	
Very-stiff brown SILTY CLAY , some fine to coarse sand, little fine gravel, damp.	696.4	3	4	9	100	SS-1B	2.0-2.5	17	17	10	34	22	30	13	17	9	A-6b (7)	
Loose brown GRAVEL WITH SAND AND SILT , trace clay, damp.	694.9	4	4	9	100	SS-2	-	44	22	16	11	7	31	21	10	10	A-2-4 (0)	
Very-stiff brown SILT AND CLAY , little to some fine to coarse sand, trace fine gravel, damp.	691.9	5	6	15	44	SS-3	3.5-4.0	-	-	-	-	-	-	-	-	-	A-6a (V)	
		6	7	15	39	SS-4	3.5-4.0	-	-	-	-	-	-	-	-	-	A-6a (V)	
		7	6															

EOB

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\LEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 684+81, 44' LT	EXPLORATION ID: B-030-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 700.7 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404503 N, 82.121474 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 7-3/4 INCHES	700.1																	
CONCRETE - 9-1/2 INCHES	699.3	1																
GRANULAR BASE - 7 INCHES	698.7	2	16			SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)	
Stiff brown SANDY SILT, some fine gravel, some clay, damp.	697.7	3	5	9	100	SS-1B	1.0-1.5	22	17	14	26	21	-	-	-	14	A-4a (V)	
Very-stiff brown SANDY SILT, some clay, trace fine gravel, damp.	696.2	4	3	5	14	SS-2	2.5	4	6	47	19	24	21	13	8	15	A-4a (2)	
Very-stiff to hard brown SILT AND CLAY, some fine to coarse sand, trace fine gravel, many shale fragments, damp.	693.2	5	11			SS-3	3.0-3.5	-	-	-	-	-	-	-	-	-	12	A-6a (V)
		6	12															
		7	19	29	100	SS-4	4.5	-	-	-	-	-	-	-	-	7	A-6a (V)	
		EOB	12															
			13															

NOTES:

- Boring caved at 6' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 688+77, 28' RT	EXPLORATION ID: B-031-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 705.0 (MSL) EOB: 6.5 ft.	PAGE 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404386 N, 82.120002 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 3 INCHES	705.0																	
Very-stiff brown SILT AND CLAY , little fine to coarse sand, trace fine gravel, moist.	704.7	1	3	9	100	SS-1	3.0	5	8	11	36	40	26	15	11	16	A-6a (8)	
Very-stiff brown SANDY SILT , some clay, trace fine gravel, damp to moist.	703.0	2	3	14	100	SS-2	3.0-3.5	7	11	15	41	26	24	15	9	12	A-4a (6)	
Hard brown and gray SILTY CLAY , little to some fine to coarse sand, trace fine gravel, damp to moist.	701.5	3	9	26	100	SS-3	4.5+	-	-	-	-	-	-	-	-	17	A-6b (V)	
	698.5	4	10	30	100	SS-4	4.5+	-	-	-	-	-	-	-	-	17	A-6b (V)	
		5	11															
		6	13															
		EOB	13															

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 692+59, 20' LT	EXPLORATION ID: B-032-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 709.6 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.404610 N, 82.118638 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 3 INCHES	709.3																	
Stiff to very-stiff brown SILTY CLAY , some fine to coarse sand, little fine gravel, moist.	707.6	1	2	7	100	SS-1	1.0-3.0	13	11	13	29	34	35	18	17	17	A-6b (8)	
Very-stiff brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp to moist.		2	3	15	100	SS-2	2.0-3.5	6	7	12	40	35	29	17	12	16	A-6a (9)	
		3	6	7														
		4	8	28	100	SS-3	3.5	-	-	-	-	-	-	-	-	13	A-6a (V)	
		5	11	13														
	703.1	6	10	31	72	SS-4	4.0	-	-	-	-	-	-	-	-	12	A-6a (V)	
		EOB	10	17														

NOTES:

- Boring caved at 5' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 719+65, 44' RT	EXPLORATION ID: B-033-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 686.9 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.405030 N, 82.108782 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 6 INCHES	686.4																	
CONCRETE - 10-1/2 INCHES	685.5	1																
GRANULAR BASE - 5 INCHES	685.1	2	10			SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)	
Very-stiff brown SILT AND CLAY , little fine to coarse sand, trace fine gravel, moist.		3	4	9	100	SS-1B	3.5	3	4	8	32	53	34	19	15	19	A-6a (10)	
		4	9	11	29	100	SS-2	3.5	5	9	11	31	44	31	18	13	17	A-6a (9)
		5	12	14	33	33	SS-3	3.5	-	-	-	-	-	-	-	-	16	A-6a (V)
		6	13	16	44	100	SS-4	3.0	-	-	-	-	-	-	-	-	16	A-6a (V)
		679.4	7	16	22													
		EOB																

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:40 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 723+27, 33' LT	EXPLORATION ID: B-034-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 679.4 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.405443 N, 82.107472 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ROOTMAT - 3 INCHES	679.4																		
Very-stiff to hard brown to gray SILT AND CLAY , some fine to coarse sand, trace fine gravel, moist.		1	3	5	17	100	SS-1	4.5	6	10	12	28	44	33	19	14	15	A-6a (9)	
		2	7	10	28	100	SS-2	4.5	7	9	13	31	40	35	20	15	17	A-6a (9)	
		3	10	14															
		4	16	16	44	100	SS-3	2.5-3.5	-	-	-	-	-	-	-	-	-	15	A-6a (V)
		5	23	22															
		6	20	21	48	100	SS-4	3.5	-	-	-	-	-	-	-	-	-	15	A-6a (V)
	672.9	EOB																	

NOTES:

- Boring caved at 4.8' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 727+41, 32' RT	EXPLORATION ID: B-035-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 670.9 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.405625 N, 82.106034 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 3 INCHES	670.6																	
POSSIBLE FILL: Medium-dense brown GRAVEL WITH SAND AND SILT , trace clay, damp.	668.9	1	20	21	100	SS-1	-	37	25	11	17	10	-	-	-	9	A-2-4 (V)	
Hard brown SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.		2	12	36	100	SS-2	4.5	7	9	10	29	45	33	16	17	14	A-6b (11)	
		3	14	17														
		4	11	42	100	SS-3	4.5	-	-	-	-	-	-	-	-	14	A-6b (V)	
		5	14	22														
	664.4	6	43	88	100	SS-4	4.5	-	-	-	-	-	-	-	-	9	A-6b (V)	
			43	33														

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

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S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 731+43, 45' LT	EXPLORATION ID: B-036-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 663.4 (MSL) EOB: 6.4 ft.	PAGE: 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.406312 N, 82.104860 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-1/2 INCHES	663.4																	
CONCRETE - 10-1/2 INCHES	662.0	1																
GRANULAR BASE - 4 INCHES	661.7	2	5			SS-1A	-	-	-	-	-	-	-	-	-	-	-	A-1-a (V)
Very-stiff to hard light-brown to gray SILTY CLAY , little fine to coarse sand, little fine to coarse gravel (shale fragments), dry to damp.	659.5	3	4	13	100	SS-1B	-	17	10	9	31	33	34	15	19	13		A-6b (9)
			33															
SHALE , gray and tan, severely weathered.	656.9	4	45		100	SS-2	-	12	11	6	44	27	35	18	17	7		A-6b (10)
			50-5"															
		5	45		100	SS-3	-	-	-	-	-	-	-	-	-	6		Rock (V)
		6	50-5"		100	SS-4	-	-	-	-	-	-	-	-	-	5		Rock (V)
		EOB																

NOTES:

- No water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 735+54, 45' RT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	B-037-0-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 655.3 (MSL) EOB: 6.1 ft.	PAGE
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.406760 N, 82.103448 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	655.3																	
CONCRETE - 9-3/4 INCHES	654.2	1																
GRANULAR BASE - 5 INCHES	653.8	2	10															
Dense brown GRAVEL WITH SAND, SILT AND CLAY, damp.	652.3	3	16	43	100	SS-1	-	-	-	-	-	-	-	-	-	-	A-2-6 (V)	
SHALE, gray, severely weathered, fragmented.		4	50-4"	-	100	SS-2	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		5	50-3"	-	100	SS-3	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	649.2	6	50-1"	-	0	SS	-	-	-	-	-	-	-	-	-	-		

NOTES:

- No water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 739+65, 27' LT	EXPLORATION ID: B-038-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 647.3 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.407625 N, 82.102600 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ROOTMAT - 1-1/2 INCHES	647.2		5															< < < <	
GRANULAR FILL - 5-1/2 INCHES	646.7	1	11	23	100	SS-1	-	9	10	15	36	30	26	15	11	16	A-6a (7)	> > > >	
Very-stiff brown to gray SILT AND CLAY , little to some fine to coarse sand, trace fine gravel, damp.		2	8															< < < <	
		3	8	20	100	SS-2	3.0	5	9	11	38	37	31	18	13	15	A-6a (9)	> > > >	
		4	8																< < < <
		5	8	9															> > > >
		6	8	9	20	100	SS-3	4.0	-	-	-	-	-	-	-	-	12	A-6a (V)	< < < <
		6	5	5	13	100	SS-4	2.0-3.5	-	-	-	-	-	-	-	-	19	A-6a (V)	> > > >
	640.8	EOB	6															< < < <	

NOTES:

- Encountered seepage at 4' during drilling.
- Boring did not cave after removing augers and water was measured at 5.5'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 743+55, 21' RT	EXPLORATION ID: B-039-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 641.3 (MSL) EOB: 5.2 ft.	PAGE: 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.408427 N, 82.101510 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 3 INCHES	641.0																	
Very-stiff brown SILTY CLAY , some fine to coarse sand, some fine gravel, damp.	639.3	1	8	15	54	100	SS-1	3.0	27	15	10	21	27	39	21	18	7	A-6b (5)
Very-dense brown to gray GRAVEL WITH SAND AND SILT , trace clay, dry.	638.3	2	50-5"	-	100	SS-2	-	-	49	19	10	15	7	25	16	9	6	A-2-4 (0)
SHALE , gray, severely weathered, weak, fragmented.	636.1	3																
		4	50-4"	-	100	SS-3	-	-	-	-	-	-	-	-	-	-	4	Rock (V)
		5	50-2"	-	100	SS-4	-	-	-	-	-	-	-	-	-	-	3	Rock (V)
	636.1	EOB																

NOTES:

- No water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 747+45, 46' LT	EXPLORATION ID B-040-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 644.7 (MSL) EOB: 7.4 ft.	PAGE 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.409439 N, 82.100997 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 8 INCHES	644.0																	
CONCRETE - 10-3/4 INCHES	643.2	1																
GRANULAR BASE - 6 INCHES	642.7	2																
Medium-dense gray GRAVEL WITH SAND, SILT AND CLAY , damp.	641.2	3	7	19	100	SS-1	-	45	16	7	17	15	34	19	15	12	A-2-6 (1)	
Very-dense gray GRAVEL WITH SAND (highly weathered shale fragments), little silt, trace clay, dry to damp.	640.2	4	17 50-4"	-	100	SS-2	-	52	21	9	13	5	27	22	5	9	A-1-b (0)	
		5	48															
		6	45 43	102	100	SS-3	-	-	-	-	-	-	-	-	-	6	A-1-b (V)	
	637.3	7	11 50-5"	-	100	SS-4	-	-	-	-	-	-	-	-	-	17	A-1-b (V)	

NOTES:

- Encountered seepage at 4.5' during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 750+97, 46' RT	EXPLORATION ID B-041-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 648.0 (MSL) EOB: 6.25 ft.	PAGE 1 OF 1
START: 3/2/23 END: 3/2/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.410196 N, 82.100133 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 9-1/2 INCHES	648.0																	
CONCRETE - 5-1/4 INCHES	647.2	1																
GRANULAR BASE - 5 INCHES	646.8																	
Very-stiff gray SILT AND CLAY , some fine to coarse sand, some fine gravel, dry.	646.4	2	15															
	645.0	3	15	38	100	SS-1	-	28	22	12	23	15	30	19	11	4	A-6a (1)	
SHALE , gray, highly weathered, weak, fragmented.		TR	50-3"	-	100	SS-2	-	-	-	-	-	-	-	-	-	4	Rock (V)	
		4																
		5	50-5"	-	100	SS-3	-	53	19	10	13	5	23	19	4	7	Rock (V)	
	641.8	6	50-3"	-	100	SS-4	-	-	-	-	-	-	-	-	-	3	Rock (V)	
		EOB																

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 756+13, 31' LT	EXPLORATION ID B-042-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 652.7 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/28/23 END: 2/28/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.411562 N, 82.099571 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 12-1/2 INCHES	652.7																	
GRANULAR BASE - 4-1/2 INCHES	651.7	1																
Very-stiff to hard brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	651.3	2	7	9	24	100	SS-1	3.5-4.5	4	11	11	33	41	30	17	13	14	A-6a (9)
		3	6	9	21	100	SS-2	4.5	-	-	-	-	-	-	-	-	14	A-6a (V)
Very-stiff to hard brown SILTY CLAY , trace fine to coarse sand, trace fine gravel, damp.	648.2	4	9	12	27	78	SS-3	2.0-2.5	1	3	4	33	59	38	20	18	19	A-6b (11)
		5	9	12	27	78	SS-3	2.0-2.5	1	3	4	33	59	38	20	18	19	A-6b (11)
		6	13	9	23	100	SS-4	3.0-4.5	-	-	-	-	-	-	-	-	14	A-6b (V)
	645.2	7	13	9	23	100	SS-4	3.0-4.5	-	-	-	-	-	-	-	-	14	A-6b (V)

EOB

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

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PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 759+76, 33' RT	EXPLORATION ID: B-043-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 656.8 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/7/23 END: 3/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.412371 N, 82.098767 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 13-1/4 INCHES	656.8																	
GRANULAR BASE - 5 INCHES	655.7 655.3	1																
POSSIBLE FILL: Very-stiff to hard dark brown and gray SILTY CLAY , trace to little fine to coarse sand, trace to little fine gravel, damp.		2	7															
		3	9 13	26	61	SS-1	4.5+	11	8	11	29	41	35	17	18	14	A-6b (10)	
		4	7 12 13	29	39	SS-2	3.5- 4.5	1	1	2	35	61	39	18	21	13	A-6b (12)	
		5	8 10 13	27	56	SS-3	3.5- 4.5	-	-	-	-	-	-	-	-	-	13	A-6b (V)
Hard dark-brown and gray CLAY , some to "and" fine to coarse sand, trace fine gravel, slightly organic odor, damp.	649.9	6	16 18 18	42	44	SS-4A	3.5- 4.5	-	-	-	-	-	-	-	-	-	20	A-6b (V)
	648.8	7	16 18 18	42	44	SS-4B	4.0- 4.5	-	-	-	-	-	-	-	-	-	18	A-7-6 (V)
		8																

NOTES:

- No groundwater encountered during drilling.
- Boring caved at 6' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 764+71, 14' LT	EXPLORATION ID: B-044-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 658.5 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.413545 N, 82.097870 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ROOTMAT MIXED WITH GRANULAR FILL - 6 INCHES	658.5																		
Very-stiff to hard brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	658.0	1	3															< < <	
			4	13	61	SS-1	3.54.0	9	9	14	28	40	33	18	15	13	A-6a (9)	> > >	
Very-stiff to hard gray SILTY CLAY , little fine to coarse sand, trace fine gravel, few shale fragments, dry to damp.	655.9	2	7															< < <	
			6	15	89	SS-2A	4.0	5	12	10	32	41	31	18	13	13	A-6a (9)	> > >	
			7			SS-2B	4.0	-	-	-	-	-	-	-	-	-	13	A-6b (V)	< < <
			5	22	78	SS-3	3.5-4.0	-	-	-	-	-	-	-	-	-	14	A-6b (V)	> > >
		3	10															< < <	
		4	10																> > >
		5	10																< < <
		6	12																> > >
	652.0	EOB		26	56	SS-4	4.5+	-	-	-	-	-	-	-	-	-	-	11	A-6b (V)

NOTES:

- Encountered seepage at 4.0' after drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 772+50, 42' LT	EXPLORATION ID: B-046-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 667.9 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.414949 N, 82.095698 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 5 INCHES	667.5																		
CONCRETE - 11 INCHES	666.6	1																	
GRANULAR BASE - 8 INCHES	665.9	2	14	15	72	SS-1A		-	-	-	-	-	-	-	-	-	A-1-a (V)		
Hard dark-brown SILT AND CLAY , little to some fine to coarse sand, trace to little fine to coarse gravel, damp.	664.4	3	6	9	21	78	SS-1B	4.5+	9	10	11	28	42	28	16	12	14	A-6a (8)	
		4	9	9	21	78	SS-2	1.5-3.5	12	9	11	25	43	29	15	14	15	A-6a (8)	
		5	8	9	21	56	SS-3	4.5+	-	-	-	-	-	-	-	-	-	15	A-6a (V)
		6	11	14	33	72	SS-4	4.5+	-	-	-	-	-	-	-	-	-	-	A-6a (V)
		7	14	14															
	660.4	EOB																	

NOTES:

- Boring caved at 5.3' after removing augers and water was measured at 2.0'.
- Groundwater at 2.0' after drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 776+54, 45' RT	EXPLORATION ID: B-047-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 671.6 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/7/23 END: 3/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.415267 N, 82.094248 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	671.2	1																
CONCRETE - 9 INCHES	670.4	1																
GRANULAR BASE - 4-1/2 INCHES	670.1	2																
POSSIBLE FILL: Very-stiff to hard brown SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.	668.1	3	6	9	28	61	SS-1	2.5-4.5+	4	6	9	31	50	31	15	16	14	A-6b (10)
Very-stiff to hard brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	668.1	4	8	10	27	67	SS-2	4.5+	4	9	13	29	45	29	14	15	12	A-6a (10)
		5	6	13	38	61	SS-3	3.0-4.0	-	-	-	-	-	-	-	-	-	14
	663.6	6	25	23	54	100	SS-4	4.5+	-	-	-	-	-	-	-	-	8	A-6a (V)
		7	23	23														
		8																

NOTES:

- Boring caved at 7' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 784+45, 34' RT	EXPLORATION ID: B-049-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 677.8 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.416326 N, 82.091721 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ROOTMAT - 6 INCHES	677.3																	< < < <	
POSSIBLE FILL: Very-stiff to hard brown and dark-brown SILTY CLAY, little fine to coarse sand, trace fine gravel, moist.	675.8	1	2	4	12	72	SS-1	3.0-4.5	3	5	8	30	54	32	16	16	22	A-6b (10)	> > > >
Very-stiff to hard brown and dark-brown CLAY, some silt, trace fine to coarse sand, moist.		2	4	6	16	100	SS-2	3.0-4.25	0	1	1	33	65	41	22	19	22	A-7-6 (12)	> > > >
		3	6	8															> > > >
		4	9	13	30	100	SS-3	4.5+	-	-	-	-	-	-	-	-	22	A-7-6 (V)	> > > >
		5	13	13															> > > >
		6	15	15	35	78	SS-4	2.75-4.5	-	-	-	-	-	-	-	-	22	A-7-6 (V)	> > > >
	671.3	EOB																	> > > >

NOTES:

- No water was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 788+41, 44' LT	EXPLORATION ID B-050-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / T. FROST	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 682.4 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.417016 N, 82.090585 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 5 INCHES	682.0																		
CONCRETE - 10 1/4 INCHES	681.1	1																	
GRANULAR BASE - 6 INCHES	680.6	2	4			SS-1A	-	-	-	-	-	-	-	-	-	-	-		
Very-stiff brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, moist.	679.4	3	4	10	67	SS-1B	2.5	8	7	24	21	40	30	16	14	17		A-1-a (V)	
		4	5					3.0											A-6a (7)
Hard brown to gray SILTY CLAY , trace fine sand, moist.	674.9	5	9	26	100	SS-2	4.5	0	0	1	31	68	38	19	19	20		A-6b (12)	
		6	17																
		7	21	55	100	SS-3	4.5	-	-	-	-	-	-	-	-	-	19		A-6b (V)
			23																
			33	65	100	SS-4	4.5	-	-	-	-	-	-	-	-	18		A-6b (V)	

EOB

NOTES:

- Boring caved at 3' after removing auger and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 792+58, 45' RT	EXPLORATION ID: B-051-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 686.1 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.417342 N, 82.089091 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 5 INCHES	686.1																		
CONCRETE - 9-1/2 INCHES	684.9	1																	
GRANULAR BASE - 5 INCHES	684.5	2																	
FILL: Hard brown and dark-brown SILTY CLAY , trace fine sand, damp.	683.4	3	4	8	23	78	SS-1A	4.5	0	0	1	34	65	34	18	16	18	A-6b (10)	
FILL: Medium-dense brown and black COARSE AND FINE SAND , little silt, little clay, trace fine gravel, damp.	682.6	4	4	7	17	61	SS-1B	-	9	25	37	14	15	22	16	6	17	A-3a (0)	
POSSIBLE FILL: Very-stiff to hard dark-brown and dark-gray SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	681.1	5	7	8			SS-2A	4.5	-	-	-	-	-	-	-	-	-	16	A-6a (V)
Very-stiff to hard brown mottled with gray CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, moist.	680.9	6	7	9	22	72	SS-2B	3.5-4.0	-	-	-	-	-	-	-	-	-	16	A-6a (V)
		7	8	10			SS-3	2.0-3.0	-	-	-	-	-	-	-	-	-	22	A-7-6 (V)
		8	7	7	16	72	SS-4	4.5	-	-	-	-	-	-	-	-	-	24	A-7-6 (V)
	678.1	EOB	7	7															

NOTES:

- Encountered seepage at 5.2'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 796+57, 32' LT	EXPLORATION ID: B-052-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 687.0 (MSL) EOB: 6.5 ft.	PAGE 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.418046 N, 82.087938 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 6-1/2 INCHES	686.5																	
POSSIBLE FILL: Very-stiff to hard brown SANDY SILT, "and" clay, trace fine gravel, damp.	685.0	1	3	7	56	SS-1	2.5-4.5	6	6	19	27	42	20	16	4	15	A-4a (7)	
Very-stiff to hard brown and gray SILTY CLAY, "and" fine to coarse sand, trace fine gravel, damp to moist.		2	5	17	89	SS-2	4.5	2	15	23	24	36	33	17	16	12	A-6b (7)	
		3	6	9														
		4	8	17	100	SS-3	2.5	-	-	-	-	-	-	-	-	17	A-6b (V)	
		5	5	8														
	680.5	6	5	13	100	SS-4	2.0-4.5	-	-	-	-	-	-	-	-	18	A-6b (V)	
		EOB	6	6														

NOTES:

- Encountered seepage at 3.5' during drilling.
- Encountered groundwater at 5.5'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 804+23, 45' LT	EXPLORATION ID: B-054-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 681.2 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.419246 N, 82.085709 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-3/4 INCHES	680.8																	
CONCRETE - 10-3/4 INCHES	679.8	1																
GRANULAR BASE - 5 INCHES	679.4	2	7			SS-1A	-	-	-	-	-	-	-	-	-	-	A-1-a (V)	
FILL: Stiff to hard brown and dark-brown SILT AND CLAY "and" clay, damp. Very-stiff brown mottled with gray CLAY , some silt, trace fine to coarse sand, damp.	678.2	3	5	12	67	SS-1B	1.5-4.5	2	16	34	24	24	25	14	11	16	A-6a (3)	
		4	4	5	13	78	SS-2	2.5-3.5	0	2	4	32	62	48	20	28	21	A-7-6 (17)
		5	8			SS-3	1.5-2.5	-	-	-	-	-	-	-	-	-	24	A-7-6 (V)
		6	13															
		7	12			SS-4	3.5-4.5	-	-	-	-	-	-	-	-	-	21	A-7-6 (V)
	673.7	EOB	14	35	78													

NOTES:

- No groundwater noted.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 808+71, 46' RT	EXPLORATION ID: B-055-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 676.4 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.420012 N, 82.084391 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	676.0																	
CONCRETE - 10 INCHES	675.1	1																
GRANULAR BASE - 5 INCHES	674.7	2																
Very-stiff to hard brown SILTY CLAY , trace fine to coarse sand, varved, damp.		3	3															
		4	5	14	89	SS-1	3.5-4.5	0	1	0	28	71	39	18	21	23	A-6b (12)	
		5	2	8	67	SS-2	1.0-4.0	0	1	0	31	68	38	17	21	25	A-6b (12)	
Stiff to very-stiff brown SANDY SILT , some to "and" clay, damp to moist.	671.2	6	6	15	78	SS-3	1.0-1.5	-	-	-	-	-	-	-	-	14	A-4a (V)	
	669.7	7	5	14	78	SS-4A	-	-	-	-	-	-	-	-	-	14	A-4a (V)	
Very-stiff brown and gray SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.		8	6	14	78	SS-4B	2.0-3.5	-	-	-	-	-	-	-	-	16	A-6a (V)	
	668.4	EOB	6															

NOTES:

- Encountered groundwater at 6.5' during drilling.
- Boring was caved and wet at 6.5' after auger removal.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 812+48, 31' LT	EXPLORATION ID: B-056-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 671.6 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.421013 N, 82.083939 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4 INCHES	671.3																	
POSSIBLE FILL: Very-stiff to hard dark-brown SILTY CLAY , trace fine to coarse sand, trace fine gravel, few sand seams, damp.	669.8	1	3	10	72	SS-1	3.0-4.5	3	6	4	29	58	39	19	20	15	A-6b (12)	< < < <
		2	5	19	78	SS-2	4.0-4.5	1	0	0	30	69	36	18	18	21	A-6b (11)	< < < <
Very-stiff to hard brown and dark-brown SILTY CLAY , trace fine to coarse sand, trace fine gravel, moist.		3	9															< < < <
		4	12	24	89	SS-3	1.5-2.0	-	-	-	-	-	-	-	-	25	A-6b (V)	< < < <
		5	6															< < < <
		6	9	20	100	SS-4	1.75-3.0	-	-	-	-	-	-	-	-	22	A-6b (V)	< < < <
	665.1	EOB	8															< < < <

NOTES:

- No seepage noted.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 816+45, 33' RT	EXPLORATION ID: B-057-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 665.7 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.421969 N, 82.083202 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 5 INCHES	665.3	1	4															< < < <
FILL: Very-stiff to hard brown and dark-brown SILT AND CLAY , some fine to coarse sand, little fine gravel, damp.	663.7	2	5	14	61	SS-1	3.5-4.5	15	11	15	25	34	32	17	15	14	A-6a (7)	> > > >
Hard dark-brown SILTY CLAY , little to some fine to coarse sand, trace fine gravel, pocket of sand and gravel at 4.7', damp.	661.1	3	7	20	89	SS-2	4.5+	6	8	12	29	45	30	14	16	12	A-6b (10)	> > > >
		4	6	10	23	94	SS-3	2.5-3.0	-	-	-	-	-	-	-	15	A-6b (V)	> > > >
		5	6	10														> > > >
	659.2	6	6	9	21	SS-4	2.5-3.5	-	-	-	-	-	-	-	-	15	A-6b (V)	> > > >
		EOB																> > > >

NOTES:

- Encountered seepage at 4.6' during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 817+88, 238' LT	EXPLORATION ID B-057-1-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 669.0 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.422513 N, 82.084042 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 10-1/2 INCHES	669.0																	
GRANULAR BASE - 9 INCHES	668.1 667.4	1																
FILL: Medium-dense brown and dark-brown COARSE AND FINE SAND , trace silt, little clay, little fine gravel, moist. Very-stiff to hard gray SILT AND CLAY , little fine to coarse sand, trace fine gravel, few sandstone fragments, few silt seams, damp.	666.4	2	6			SS-1A	-	13	26	45	9	7	NP	NP	NP	14	A-3a (0)	
		3	4	15	78	SS-1B	4.0	-	-	-	-	-	-	-	-	14	A-6a (V)	
		4	3	4	14	72	SS-2	3.5-4.5	7	8	11	30	44	28	15	13	14	A-6a (9)
		5	3	6														
		6	5	5	14	61	SS-3	4.0	-	-	-	-	-	-	-	-	15	A-6a (V)
	7	2	5	17	78	SS-4	-	-	-	-	-	-	-	-	-	15	A-6a (V)	
	661.0	8	5	7														

NOTES:

- No groundwater noted.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 95+62, 141' RT	EXPLORATION ID B-057-2-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 254 CL	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 676.2 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.423493 N, 82.084565 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 10-1/2 INCHES	676.2																		
GRANULAR BASE - 9-1/2 INCHES	675.3	1																	
FILL: Medium-dense brown GRAVEL , trace silt, trace clay, some fine to coarse sand, damp. FILL: Loose brown GRAVEL WITH SAND , trace silt, trace clay, damp to moist.	674.5	2																	
	673.7	3	4	6	15	67		SS-1A	-	64	15	13	5	3	NP	NP	NP	4	A-1-a (0)
		4	2	3	5			SS-1B	-	-	-	-	-	-	-	-	-	9	A-1-b (V)
		5	3	2	7	61		SS-2	-	15	35	41	5	4	NP	NP	NP	10	A-1-b (0)
		6	2	3	8	72		SS-3	-	-	-	-	-	-	-	-	-	15	A-1-b (V)
		7	2	2	6	72		SS-4	-	-	-	-	-	-	-	-	-	21	A-1-b (V)
	668.2	EOB 8	2																

NOTES:

- Encountered seepage at 5.4'.
- Water measured at 6.7' after auger removal.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 820+34, 46' LT	EXPLORATION ID: B-058-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 661.8 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.423055 N, 82.083216 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 5 INCHES	661.4																		
CONCRETE - 10-1/4 INCHES	660.5	1																	
GRANULAR BASE - 6 INCHES	660.0	2	9	26	67	SS-1A		-	-	-	-	-	-	-	-	-	A-1-a (V)		
Very-stiff to hard dark-brown SILT AND CLAY , little fine to coarse sand, trace fine gravel, damp.	657.3	3	11	11		SS-1B	4.5+	10	8	11	29	42	28	14	14	12	A-6a (9)		
		4	7	7	16	33	SS-2	4.5+	9	9	11	31	40	30	15	15	14	A-6a (9)	
		5	8		12	12	28	39	SS-3	2.5-3.5	-	-	-	-	-	-	-	17	A-6a (V)
		6	14		15		36	100	SS-4	3.5-4.5	-	-	-	-	-	-	-	16	A-6a (V)
		7	16																
	654.3	EOB																	

NOTES:

- Encountered groundwater at 4.5' during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 823+15, 340' RT	EXPLORATION ID B-058-1-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 667.6 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.423803 N, 82.081754 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 10-1/4 INCHES	667.6																	
GRANULAR BASE - 11 INCHES	666.8	1																
FILL: Dense dark-brown COARSE AND FINE SAND , little clay, little silt, trace fine gravel, dry.	665.9	2	8															
	664.1	3	14	33	100	SS-1	-	8	20	42	13	17	18	13	5	8	A-3a (0)	
4		6	7	21	67	SS-2	4.5+	6	9	11	30	44	23	17	6	13	A-4a (8)	
Very-stiff to hard gray SANDY SILT , "and" clay, trace fine gravel, few sandstone fragments, damp.	659.6	5	4	8														
		6	5	17	78	SS-3	3.0-4.5	-	-	-	-	-	-	-	-	15	A-4a (V)	
		7	4	7	21	83	SS-4	4.0-4.5	-	-	-	-	-	-	-	14	A-4a (V)	
		8	4	8														

NOTES:

- No groundwater was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 105+76, 134' RT	EXPLORATION ID B-058-2-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 254 CL	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 672.8 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.424567 N, 82.081157 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 9-1/2 INCHES	672.8																		
GRANULAR BASE - 8-1/2 INCHES	671.3	1																	
FILL: Medium-dense to dense brown COARSE AND FINE SAND , little fine gravel, trace silt, seams of very-soft silty clay from 6.7'-6.8', damp becoming wet. @ 6.0' loose		2	7	17	47	67	SS-1	11	26	43	12	8	NP	NP	NP	8	A-3a (0)		
		3	6	9	22	94	SS-2	6	28	52	8	6	NP	NP	NP	17	A-3a (0)		
		4	W 668.3	3	5	17	56	SS-3	-	-	-	-	-	-	-	-	23	A-3a (V)	
		5		4	3	10	67	SS-4A	-	-	-	-	-	-	-	-	20	A-3a (V)	
		6		4	3	10	67	SS-4B	-	-	-	-	-	-	-	-	31	A-6b (V)	
	7	EOB	4	3	10	67	SS-4C	-	-	-	-	-	-	-	-	23	A-3a (V)		

NOTES:

- Encountered seepage at 3.8' during drilling.
- Groundwater encountered at 4.5'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 824+33, 46' RT	EXPLORATION ID: B-059-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 657.3 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.424134 N, 82.082828 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 3-1/4 INCHES	657.0																	
CONCRETE - 9-1/2 INCHES	656.3	1																
GRANULAR BASE - 6 INCHES	655.8	2	4															
Hard dark-brown SILT AND CLAY , little fine to coarse sand, trace fine gravel, damp.		3	7	19	56	SS-1	4.5+	6	8	12	25	49	30	15	15	17	A-6a (10)	
		4	6	9	22	SS-2	4.5+	2	5	9	32	52	33	18	15	14	A-6a (10)	
		5	17	15	37	SS-3	4.5+	-	-	-	-	-	-	-	-	16	A-6a (V)	
		6	13	15	37	SS-4A	4.5+	-	-	-	-	-	-	-	-	10	A-6a (V)	
Dense dark brown and black COARSE AND FINE SAND , little silt, little clay, trace fine gravel, damp.	650.3	7	15	37	100	SS-4B	4.5+	-	-	-	-	-	-	-	-	8	A-3a (V)	
	649.8	EOB																

NOTES:

- No seepage noted.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 96+79, 226' LT
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 254 CL
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 671.7 (MSL) EOB: 8.0 ft.
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.424548 N, 82.084680 W

EXPLORATION ID
B-059-1-22

PAGE
1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 2-3/4 INCHES	671.4																		
CONCRETE - 9-3/4 INCHES	670.7	1																	
GRANULAR BASE - 7 INCHES	670.1	2																	
FILL: Medium-dense to very-dense brown and gray COARSE AND FINE SAND , little silt, trace to little clay, trace to little fine gravel, damp		3	6	7	26	78	SS-1	-	10	18	38	18	16	20	15	5	12	A-3a (0)	
		4	7	25	54	100	SS-2	-	19	30	27	15	9	NP	NP	NP	10	A-3a (0)	
	666.7	5	6	7	29	72	SS-3	3.0-4.5	-	-	-	-	-	-	-	-	-	12	A-6a (V)
POSSIBLE FILL: Very-stiff to hard dark-brown and gray SILT AND CLAY , some fine to coarse sand, little fine gravel, damp.		6	6	7	29	72	SS-3	3.0-4.5	-	-	-	-	-	-	-	-	-	12	A-6a (V)
	664.3	7	6	11	35	94	SS-4A	4.5+	-	-	-	-	-	-	-	-	-	11	A-6a (V)
	663.8	7	6	11	35	94	SS-4B	4.5+	-	-	-	-	-	-	-	-	-	13	A-4a (V)
POSSIBLE FILL: Dense brown SANDY SILT , little clay, little fine gravel, few roots, damp.		8																	

EOB

NOTES:

- No ground water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 829+45, 193' LT	EXPLORATION ID: B-059-2-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 656.0 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.425535 N, 82.083713 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	655.6																	
CONCRETE - 9-1/4 INCHES	654.8	1																
GRANULAR BASE - 6 INCHES	654.3	2																
FILL: Medium-dense brown SANDY SILT , little clay, trace fine gravel, damp.	653.7	3	3			SS-1A	3.0	-	-	-	-	-	-	-	-	12	A-4a (V)	
	652.5	3	6	25	78	SS-1B	3.5-4.5	4	6	11	26	53	35	18	17	15	A-6b (11)	
FILL: Very-stiff to hard brown SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.		4	5			SS-2	3.0-4.5+	7	9	32	26	26	27	16	11	15	A-6a (4)	
POSSIBLE FILL: Very-stiff to hard dark-brown and gray SILT AND CLAY , "and" fine to coarse sand, trace fine gravel, slight organic odor, damp.	650.9	5	3															
		6	5	17	72	SS-3	-	-	-	-	-	-	-	-	-	21	A-2-6 (V)	
Medium-dense gray GRAVEL WITH SAND, SILT AND CLAY , wet.	648.6	7	2			SS-4A	-	-	-	-	-	-	-	-	-	21	A-2-6 (V)	
	648.0	7	3	15	78	SS-4B	4.5+	-	-	-	-	-	-	-	-	15	A-6a (V)	
Hard brown mottled with gray SILT AND CLAY , little fine to coarse sand, trace fine to coarse gravel (sandstone fragments), damp.		8	8															

NOTES:

- Encountered seepage at 5.4' during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWPROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 828+62, 33' LT	EXPLORATION ID: B-060-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 653.3 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/27/23 END: 2/27/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.425284 N, 82.083129 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 6 INCHES	653.3																	
FILL: Medium-dense brown COARSE AND FINE SAND , little clay, little silt, trace gravel, damp.	652.8	1	4			SS-1A	-	6	21	45	15	13	19	15	4	13	A-3a (0)	
	651.9	2	6	5	13	100	SS-1B	2.5-4.5	27	7	10	27	29	31	17	14	16	A-6a (6)
FILL: Very-stiff to hard brown, dark brown, and gray SILT AND CLAY , little to some fine to coarse sand, little to some fine gravel, damp.		3	5	6	15	44	SS-2	4.5	-	-	-	-	-	-	-	-	10	A-6a (V)
		4	9	11	26	100	SS-3	4.5+	-	-	-	-	-	-	-	-	9	A-6a (V)
		5	12	15	35	89	SS-4	4.5+	-	-	-	-	-	-	-	-	11	A-6a (V)
	646.8	6	15	15														

NOTES:

- No groundwater noted.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 106+11, 155' LT	EXPLORATION ID B-060-1-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: SR 254 CL	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 12/22/22	ELEVATION: 672.1 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.425337 N, 82.081436 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 2-3/4 INCHES	672.1																	
CONCRETE - 9-1/4 INCHES	671.1	1																
GRANULAR BASE - 6 INCHES	670.6	2	3															
FILL: Very-stiff to hard dark-brown and gray SILT AND CLAY , some fine to coarse sand, trace fine gravel, becoming black with slightly organic odor below 3', damp. Dense dark-brown COARSE AND FINE SAND , little silt, little clay, trace fine gravel, damp.	668.8	3	8 14	31	78	SS-1	3.5- 4.5+	10	10	14	26	40	28	17	11	11	A-6a (7)	
		4	5			SS-2A	4.5+	-	-	-	-	-	-	-	-	14	A-6a (V)	
		5	10			SS-2B	-	8	19	45	15	13	NP	NP	NP	9	A-3a (0)	
		6	15 14	40	94	SS-3	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
		7	3 12 11	32	89	SS-4	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
	664.6	EOB																

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 831+68, 209' RT	EXPLORATION ID B-060-2-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 12/22/22	ELEVATION: 659.5 (MSL) EOB: 8.1 ft.	PAGE 1 OF 1
START: 3/16/23 END: 3/16/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.426154 N, 82.082256 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 5-1/2 INCHES	659.1																		
CONCRETE - 9-1/2 INCHES	658.2	1																	
GRANULAR BASE - 10 INCHES	657.4	2																	
FILL: Very-stiff to hard dark-brown to gray SILT AND CLAY , some fine to coarse sand, trace fine to coarse gravel, damp.	653.7	3	5	7	17	94	SS-1	3.5-4.5	5	9	14	33	39	27	15	12	12	A-6a (8)	
		4	2	4	11	72	SS-2	3.5-4.5	5	9	17	25	44	29	17	12	13	A-6a (8)	
		5	4	4			SS-3A	3.0-4.5	-	-	-	-	-	-	-	-	-	13	A-6a (V)
FILL: Medium-dense brown COARSE AND FINE SAND , little clay, little silt, trace to little fine gravel, damp. @6.6' very-dense, few slag fragments.	651.4	6	6	12	25	89	SS-3B	-	-	-	-	-	-	-	-	-	-	10	A-3a (V)
		7	12	29	75	100	SS-4	-	-	-	-	-	-	-	-	-	-	9	A-3a (V)
		8	25	25															

NOTES:

- Boring caved at 5.7' after auger removal, boring hole was dry.
- No ground water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 832+49, 34' RT	EXPLORATION ID: B-061-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 652.0 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.426374 N, 82.082891 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 5 INCHES	652.0																	
Hard brown and dark-brown SILT AND CLAY , "and" fine to coarse sand, trace fine gravel, damp.	651.6	1	3															< < < <
	650.0	2	5	16	50	SS-1	4.5+	9	15	26	23	27	27	16	11	11	A-6a (3)	> > > >
Very-stiff to hard brown and dark-brown SILTY CLAY , some fine to coarse sand, trace fine to coarse gravel, few seams and pockets of sand and gravel, damp.		3	6	15	67	SS-2	3.5-4.5	10	9	22	28	31	35	18	17	16	A-6b (8)	< < < <
		4	6	7														> > > >
		5	7	10	24	78	SS-3	3.5-4.0	-	-	-	-	-	-	-	20	A-6b (V)	< < < <
		6	10	11														> > > >
	645.5	6	13	34	67	SS-4	3.5-3.75	-	-	-	-	-	-	-	-	21	A-6b (V)	< < < <
			13	16														> > > >

EOB

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 836+47, 45' LT	EXPLORATION ID: B-062-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 651.5 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.427465 N, 82.083196 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 6 INCHES	651.0																		
CONCRETE - 9-1/4 INCHES	650.2	1																	
GRANULAR BASE - 6 INCHES	649.7	2	3			SS-1A	-	-	-	-	-	-	-	-	14	A-1-a (V)	< < < <		
FILL: Medium-dense brown to dark brown COARSE AND FINE SAND , little silt, little clay, trace fine gravel, pockets of medium-stiff clay, damp. Very-stiff to hard brown mottled with dark-brown and gray SILTY CLAY , some fine to coarse sand, trace fine gravel, damp to moist.	648.5	3	4	21	72	SS-1B	-	10	20	41	16	13	18	14	4	8	A-3a (0)	< < < <	
		4	10	24	72	SS-2	4.5+	4	10	14	36	36	36	19	17	18	A-6b (10)	< < < <	
		5	7	13	29	61	SS-3	3.5	-	-	-	-	-	-	-	-	25	A-6b (V)	< < < <
		6	17	14	28	100	SS-4	3.5-4.0	-	-	-	-	-	-	-	-	18	A-6b (V)	< < < <
		7	10																< < < <
	644.0	EOB																	

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 840+67, 47' RT	EXPLORATION ID: B-063-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 650.6 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.428620 N, 82.082874 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	650.2																	
CONCRETE - 9-3/4 INCHES	649.4	1																
GRANULAR BASE - 7 INCHES	648.8	2	3												16	A-1-a (V)	<V>	
POSSIBLE FILL: Medium-dense brown COARSE AND FINE SAND , little silt, little clay, little fine gravel, damp.	646.8	3	7	21	72	SS-1A	-	-	-	-	-	-	-	-	-	-	-	<V>
	646.8	3	11			SS-1B	-	11	20	45	13	11	NP	NP	NP	8	A-3a (0)	<V>
Very-stiff to hard gray and black SILT AND CLAY , "and" fine to coarse sand, trace fine gravel, damp to moist.	646.1	4	4	19	78	SS-2A	-	-	-	-	-	-	-	-	-	-	-	<V>
	646.1	4	6			SS-2B	2.5-4.5	7	13	28	26	26	29	16	13	15	A-6a (5)	<V>
Medium-dense dark-brown and black COARSE AND FINE SAND , little silt, trace clay, moist.	645.2	5	8	23	100	SS-3A	-	-	-	-	-	-	-	-	-	-	-	<V>
	645.2	5	10			SS-3B	4.5	-	-	-	-	-	-	-	-	-	-	<V>
Very-stiff to hard dark-brown and gray CLAY , some silt, some fine to coarse sand, trace to little fine gravel, damp.	643.1	6	7	27	61	SS-4	4.0-4.5	-	-	-	-	-	-	-	-	-	-	<V>
	643.1	7	10															<V>
		7	13															<V>

NOTES:

- Encountered seepage at 4.5'.
- Boring caved at 5' after removing augers and was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 844+41, 33' LT	EXPLORATION ID: B-064-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 649.2 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.429644 N, 82.083174 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ROOTMAT - 7 INCHES	649.2																		
FILL: Stiff brown SILT AND CLAY , "and" fine to coarse sand, trace fine gravel, damp.	647.2	1	2	9	56	SS-1	1.0-1.5	9	14	29	21	27	27	15	12	14	A-6a (3)	<L>	
FILL: Medium-dense brown COARSE AND FINE SAND , trace fine gravel, little clay, damp.	646.5	2	9	14	94	SS-2A	-	11	18	36	17	18	22	21	1	10	A-3a (0)	<L>	
Very-stiff brown and dark-brown CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, zone of stiff black silty clay from 3.5' to 5.0', damp to moist.	642.7	3	6			SS-2B	3.0-3.5	-	-	-	-	-	-	-	-	20	A-7-6 (V)	<L>	
		4	4	5	16	67	SS-3	1.0-2.0	-	-	-	-	-	-	-	-	27	A-7-6 (V)	<L>
		5	9																<L>
		6	11	28	100	SS-4	2.0-3.5	-	-	-	-	-	-	-	-	23	A-7-6 (V)	<L>	
	642.7	EOB	13																<L>

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 852+50, 46' LT	EXPLORATION ID B-066-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 647.8 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.431877 N, 82.083112 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-3/4 INCHES	647.3																	
CONCRETE - 10-1/4 INCHES	646.5	1																
GRANULAR BASE - 4 INCHES	646.1	2	4			SS-1A		-	-	-	-	-	-	-	-	-	A-1-a (V)	
FILL: Loose to medium-dense brown and dark-brown GRAVEL WITH SAND AND SILT , little clay, damp.	644.0	3	3	7	17	SS-1B	-	-	-	-	-	-	-	-	-	-	A-2-4 (V)	
		4	12	8	19	100	SS-2A	-	14	17	38	16	15	21	13	8	10	A-2-4 (0)
FILL: Stiff brown and dark-brown SILTY CLAY , some fine to coarse sand, trace fine gravel, moist.	641.8	5	12	8		SS-2B	1.5-2.0	7	9	20	32	32	33	17	16	20	A-6b (8)	
		6	14		30	33	SS-3	4.5+	-	-	-	-	-	-	-	-	16	A-6b (V)
Hard dark-brown stained with black CLAY , some to "and" silt, trace to little fine to coarse sand, trace fine gravel, few stiff zones, damp to moist.	640.3	7	10															
		EOB	13	28	67	SS-4	1.0-2.0	-	-	-	-	-	-	-	-	-	24	A-7-6 (V)

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 856+77, 45' RT	EXPLORATION ID: B-067-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 646.3 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.432984 N, 82.082502 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-1/4 INCHES	645.9																	
CONCRETE - 10-1/2 INCHES	645.0	1																
GRANULAR BASE - 4 INCHES	644.7	2	5			SS-1A												
FILL: Stiff to very-stiff brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	643.7	3	6	15	44	SS-1B	1.5-3.5	5	10	22	27	36	29	17	12	14	A-6a (6)	
POSSIBLE FILL: Dense brown and dark-brown SANDY SILT , little clay, trace fine gravel, damp.		4	10	18	42	100	SS-2	-	10	17	37	17	19	21	14	7	9	A-4a (0)
Very-stiff gray mottled with brown CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, few slightly organic pockets below 6', moist.	641.8	5	14	10	24	67	SS-3	2.75-3.75	-	-	-	-	-	-	-	-	22	A-7-6 (V)
		6	14	15	38	78	SS-4	3.25-3.75	-	-	-	-	-	-	-	-	25	A-7-6 (V)
	638.8	7	15	18														

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 860+52, 32' LT	EXPLORATION ID: B-068-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 644.8 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.434027 N, 82.082389 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4 INCHES	644.8																	
POSSIBLE FILL: Hard dark-brown SILT AND CLAY, some fine to coarse sand, little fine gravel, dry.	642.8	1	2	6	15	100	SS-1	4.5	9	12	21	26	32	28	14	14	6	A-6a (6)
Medium-dense to dense brown GRAVEL WITH SAND, trace silt, trace clay, damp.		2																
		3	13	17	41	67	SS-2	-	56	14	12	9	9	NP	NP	NP	12	A-1-b (0)
	640.7	4	14	15	29	89	SS-3A	-	-	-	-	-	-	-	-	-	6	A-1-b (V)
Very-stiff to hard dark-brown CLAY, some silt, little to some fine to coarse sand, trace fine gravel, damp.	639.8	5	3	10			SS-3B	2.0-4.5	-	-	-	-	-	-	-	-	22	A-7-6 (V)
Stiff brown and gray CLAY, "and" silt, trace to little fine to coarse sand, moist.	638.3	6	5	8	15	67	SS-4	1.5-2.0	-	-	-	-	-	-	-	-	30	A-7-6 (V)
		EOB																

NOTES:

- Encountered groundwater at 3.9' during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 864+57, 32' RT	EXPLORATION ID: B-069-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 644.6 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 3/9/23 END: 3/9/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.434990 N, 82.081606 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 7 INCHES	644.6																	
POSSIBLE FILL: Very-stiff brown SILT AND CLAY, some fine to coarse sand, trace fine gravel, damp.	642.2	1	2	7	61	SS-1	2.7-4.0	10	12	20	24	34	30	17	13	13	A-6a (6)	
Medium-dense brown COARSE AND FINE SAND, little silt, little clay, little fine gravel, damp.	641.1	2	4	27	78	SS-2A	3.5-4.0	-	-	-	-	-	-	-	-	13	A-6a (V)	
Very-stiff to hard brown SILT AND CLAY, some fine to coarse sand, trace fine gravel, damp.	638.1	3	10	30	67	SS-2B	4.0	15	19	35	16	15	19	15	4	10	A-3a (0)	
		4	10	30	67	SS-3	2.5-4.5+	-	-	-	-	-	-	-	-	17	A-6a (V)	
		5	13	33	78	SS-4	2.7	-	-	-	-	-	-	-	-	17	A-6a (V)	
		6	15	33	78	SS-4	2.7	-	-	-	-	-	-	-	-	17	A-6a (V)	
	638.1	EOB	13															

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 868+36, 45' LT	EXPLORATION ID: B-070-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 644.0 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.436010 N, 82.081222 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	643.6																	
CONCRETE - 10 INCHES	642.7	1																
GRANULAR BASE - 4 INCHES	642.4	2																
POSSIBLE FILL: Very-stiff to brown and gray SILT AND CLAY , little to some fine to coarse sand, trace fine gravel, damp.		3	1	4	10	67	SS-1	4.0	4	8	15	26	47	30	16	14	17	A-6a (9)
		4	6	8	20	61	SS-2	3.5	4	6	13	33	44	28	14	14	16	A-6a (10)
		5	4	8	9		SS-3A	2.0	-	-	-	-	-	-	-	-	24	A-6a (V)
Very-stiff brown CLAY , some to "and" silt, trace to little fine to coarse sand, trace fine gravel, moist.	638.8	6	4	10	67		SS-3B	2.0	-	-	-	-	-	-	-	-	26	A-7-6 (V)
		7	6	7	21	94	SS-4	4.0	-	-	-	-	-	-	-	-	25	A-7-6 (V)
	636.0	8	6	7	11													
		EOB																

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 872+73, 45' RT	EXPLORATION ID B-071-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 642.8 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.436929 N, 82.080146 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-1/2 INCHES	642.3																	
CONCRETE - 9-1/2 INCHES	641.5	1																
GRANULAR BASE - 3 INCHES	641.3	2	2															
FILL: Very-stiff gray SILT AND CLAY , "and" fine to coarse sand, little fine gravel, moist.	639.8	3	4	17	78	SS-1	2.0	12	16	21	21	30	27	15	12	13	A-6a (4)	
FILL: Very-dense gray and brown GRAVEL WITH SAND AND SILT , little clay, damp.	638.3	4	13	21	53	100	-	14	35	26	14	11	21	14	7	9	A-2-4 (0)	
Very-stiff to hard brown and gray CLAY , some silt, little fine to coarse sand, trace fine gravel, damp.		5	4	7	24	94	SS-3	4.5-4.5+	-	-	-	-	-	-	-	20	A-7-6 (V)	
		6		10														
	635.3	7	3	6	21	89	SS-4	2.5-4.0	-	-	-	-	-	-	-	25	A-7-6 (V)	
		EOB		9														

NOTES:

- Boring hole caved at 4.4' after auger removal, boring was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 880+62, 31' RT	EXPLORATION ID B-073-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 640.3 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.438824 N, 82.078755 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 3 INCHES	640.0																	
FILL: Very-stiff to hard brown and dark-brown SILTY CLAY , some fine to coarse sand, little fine gravel, damp.	637.8	1	5	7	22	100	SS-1	-	17	15	18	22	28	34	17	17	13	A-6b (5)
Very-stiff to hard brown mottled with gray SILTY CLAY , "and" fine to coarse sand, trace fine gravel, damp.	634.8	2	3	5	15	89	SS-2	4.0-4.25	2	19	19	26	34	35	17	18	22	A-6b (8)
		3	3	5	15	78	SS-3	3.5-4.0	-	-	-	-	-	-	-	-	25	A-6b (V)
Very-stiff brown mottled with gray SANDY SILT , some clay, trace fine gravel, damp.	633.3	4	3	4	15	100	SS-4	3.0-4.0	-	-	-	-	-	-	-	-	17	A-4a (V)
		5	3	4	15	100	SS-4	3.0-4.0	-	-	-	-	-	-	-	-	17	A-4a (V)
		6	3	4	15	100	SS-4	3.0-4.0	-	-	-	-	-	-	-	-	17	A-4a (V)
		7	3	4	15	100	SS-4	3.0-4.0	-	-	-	-	-	-	-	-	17	A-4a (V)
		EOB																

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 884+50, 45' LT	EXPLORATION ID: B-074-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 640.2 (MSL) EOB: 7.5 ft.	PAGE: 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.439855 N, 82.078300 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-3/4 INCHES	639.7																	
CONCRETE - 10-1/4 INCHES	638.8	1																
GRANULAR BASE - 4 INCHES	638.4	2																
POSSIBLE FILL: Very-stiff brown and dark-brown SILTY CLAY , some fine to coarse sand, trace fine gravel, damp to moist.	635.7	3	2	8	28	SS-1A	-	-	-	-	-	-	-	-	-	-		
		4	3	4		SS-1B	2.5-3.0	-	-	-	-	-	-	-	-	17	A-6b (V)	
Very-stiff to hard dark-brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, moist.	634.2	5	4	12	39	SS-2	2.5-3.0	4	9	24	25	38	30	13	17	19	A-6b (8)	
		6	9	6				7	8	17	30	38	32	17	15	20	A-6a (9)	
Very-stiff brown CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, damp.	632.7	7	8	13	67	SS-3	3.0-4.5	7	8	17	30	38	32	17	15	20	A-6a (9)	
		EOB	8	2				8	2									A-7-6 (V)

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 888+82, 45' RT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	B-075-0-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 639.0 (MSL) EOB: 8.0 ft.	PAGE
START: 4/6/23 END: 4/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.440761 N, 82.077233 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-1/4 INCHES	639.0																	
CONCRETE - 10-1/2 INCHES	637.7	1																
GRANULAR BASE - 7 INCHES	637.1	2																
FILL: Very-stiff to hard gray mottled with brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	634.0	2	2															
		3	3	14	72	SS-1	3.5-4.5	6	9	19	28	38	29	16	13	15	A-6a (7)	
Very-stiff to hard dark-gray stained with black SILTY CLAY , little to some fine to coarse sand, trace fine gravel, slight organic odor (LOI = 1.1%), damp.	631.0	4	2															
		3	2	7	67	SS-2	2.0-2.5	8	13	20	27	32	29	15	14	15	A-6a (6)	
		5	2															
		3	2	7	78	SS-3	2.0-2.7	-	-	-	-	-	-	-	-	21	A-6b (V)	
		6	2															
		3	2	7	78	SS-3	2.0-2.7	-	-	-	-	-	-	-	-	21	A-6b (V)	
		7	2															
		5	5	15	83	SS-4	3.0-4.5	-	-	-	-	-	-	-	-	21	A-6b (V)	
		8	6															

NOTES:

- Boring hole caved at 6.7' after auger removal, boring was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 892+81, 34' LT	EXPLORATION ID: B-076-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 637.6 (MSL) EOB: 6.5 ft.	PAGE: 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.441817 N, 82.076757 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4 INCHES	637.3																	
Medium-stiff brown SILTY CLAY , some fine to coarse sand, trace fine gravel, moist.	636.8	1	5			SS-1A	0.5-	-	-	-	-	-	-	-	-	-	20	A-6b (V)
	635.6		6	15	100	SS-1B	1.0/ 3.5-	8	11	21	25	35	30	15	15	13		A-6a (7)
Very-stiff to hard brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	634.8	2	8			SS-2A	4.5+	16	26	28	19	11	21	17	4	12		A-3a (0)
Dense brown COARSE AND FINE SAND , little silt, little clay, little fine gravel, damp.	633.8	3	16	34	100	SS-2B	4.5+	-	-	-	-	-	-	-	-	-	17	A-6a (V)
	632.6	4	6	23	47	SS-3A	1.5- 2.5/	-	-	-	-	-	-	-	-	-	17	A-6a (V)
Stiff to hard dark-brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp to moist.	632.6	5	10	17	100	SS-3B	-	-	-	-	-	-	-	-	-	-	12	A-3a (V)
Dense dark-brown COARSE AND FINE SAND , little silt, little clay, trace to little fine gravel, moist.	631.1	6	10	26	67	SS-4	4.5	-	-	-	-	-	-	-	-	-	27	A-7-6 (V)
Hard dark-brown CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, moist.			12															

NOTES:

- Encountered seepage at 4.0' during drilling.
- Groundwater was at 5.0' after drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 896+12, 31' RT	EXPLORATION ID B-077-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 637.7 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.442507 N, 82.075955 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 3 INCHES	637.4	1																
FILL: Very-stiff brown SANDY SILT , some clay, trace fine gravel, damp to moist.		1-2	4	21	83	SS-1	3.0-3.25	8	20	25	23	24	24	14	10	13	A-4a (2)	
	634.3	3	3	22	89	SS-2A	3.25-4.25	-	-	-	-	-	-	-	-	17	A-4a (V)	
Medium-dense gray COARSE AND FINE SAND , little silt, little clay, trace fine gravel, damp to moist.	633.7	3-4	2	9		SS-2B	-	5	32	38	13	12	NP	NP	NP	16	A-3a (0)	
Very-stiff dark gray CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, few wood fragments, moist.		4-5	2	12	100	SS-3	3.5-4.0	-	-	-	-	-	-	-	-	28	A-7-6 (V)	
	630.7	6	2	14	89	SS-4	2.0-3.5	-	-	-	-	-	-	-	-	25	A-7-6 (V)	
		7	4	6														

NOTES:

- No groundwater was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 900+65, 46' LT	EXPLORATION ID: B-078-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 639.2 (MSL) EOB: 7.7 ft.	PAGE: 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.443703 N, 82.075375 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-3/4 INCHES	639.2																	
CONCRETE - 10-1/4 INCHES	637.9	1																
GRANULAR BASE - 4 INCHES	637.5	2	5															
FILL: Hard dark-brown SANDY SILT , some clay, trace to little fine gravel, damp.		3	10	23	78	SS-1	4.5+	15	13	20	23	29	25	15	10	9	A-4a (3)	
@ 4.5' stiff	634.0	4	19	36	78	SS-2	4.5+	4	9	30	28	29	24	15	9	8	A-4a (4)	
		5	9			SS-3A	1.0	-	-	-	-	-	-	-	-	13	A-4a (V)	
Hard becoming stiff dark-brown SILT AND CLAY , little to some fine to coarse sand, trace fine gravel, damp to moist.		6	12	27	78	SS-3B	4.5+	-	-	-	-	-	-	-	-	18	A-6a (V)	
	631.5	7	10			SS-4	1.0-1.5	-	-	-	-	-	-	-	-	12	A-6a (V)	
		EOB	8															

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 904+72, 46' RT	EXPLORATION ID: B-079-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 638.4 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 4/6/23 END: 4/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.444549 N, 82.074350 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	638.0																	
CONCRETE - 10-1/4 INCHES	637.1	1																
GRANULAR BASE - 7 INCHES	636.4	2																
FILL: Very-stiff to hard gray SILT AND CLAY , little to some fine to coarse sand, trace fine gravel, damp.		3	4	21	100	SS-1	4.5+	6	11	19	26	38	25	13	12	10	A-6a (7)	
		4	6	9														
		5	6	5	12	44	SS-2	4.5+	4	9	11	29	47	31	17	14	A-6a (10)	
		6	3	4														
	632.1	7	5	12	24	83	SS-3	3.0-4.5	-	-	-	-	-	-	-	-	A-6a (V)	
Medium-dense brown with gray SANDY SILT , some clay, trace fine gravel, damp to moist.	630.9	8	6	7	18	89	SS-4A	-	-	-	-	-	-	-	-	-	A-4a (V)	
Hard dark-gray SILTY CLAY , little fine to coarse sand, trace fine gravel, moist.	630.4	EOB	7			SS-4B	4.5+	-	-	-	-	-	-	-	-	-	A-6b (V)	

NOTES:

- No groundwater was encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 908+58, 32' LT	EXPLORATION ID: B-080-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 636.7 (MSL) EOB: 6.5 ft.	PAGE 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.445573 N, 82.073900 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 6 INCHES	636.2																	
FILL: Very-stiff brown SILT AND CLAY, some fine to coarse sand, little fine to coarse gravel, damp.	634.7	1	3	15	56	SS-1	3.5	12	9	20	26	33	30	17	13	13	A-6a (6)	
FILL: Medium-dense dark-brown GRAVEL WITH SAND AND SILT, little clay, few cinders, dry.	633.2	2	19	28	17	SS-2	-	23	17	32	14	14	20	14	6	7	A-2-4 (0)	
Stiff to very-stiff dark-brown and dark-gray SILT AND CLAY, little fine to coarse sand, trace fine to coarse gravel, few medium-stiff zones, slightly organic seam from 5.5'-5.7', damp.	630.2	3	5	13	17	SS-3	3.0	-	-	-	-	-	-	-	-	13	A-6a (V)	
		4	6	16	44	SS-4	0.5-1.5	-	-	-	-	-	-	-	-	19	A-6a (V)	
	630.2	6	7	7														

NOTES:

- No groundwater encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 912+57, 32' RT	EXPLORATION ID B-081-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 635.7 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/6/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.446427 N, 82.072974 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 3 INCHES	635.4	0																
POSSIBLE FILL: Stiff to very-stiff brown mottled with gray and dark-gray SILTY CLAY , some fine to coarse sand, little fine to coarse gravel, damp.	633.2	1	3	12	83	SS-1	1.7-3.7	11	7	20	23	39	38	16	22	16	A-6b (10)	
Hard brown mottled with gray SANDY SILT , some clay, trace fine gravel, damp.	631.7	2	5	18	94	SS-2	4.5+	6	9	13	39	33	27	17	10	13	A-4a (7)	
Stiff to very-stiff gray with brown SILTY CLAY , little to some fine to coarse sand, trace fine gravel, moist.	628.7	3	2	6	89	SS-3	1.0-2.5	-	-	-	-	-	-	-	-	19	A-6b (V)	
		4	3	5	18	83	SS-4	3.0-3.5	-	-	-	-	-	-	-	22	A-6b (V)	
		EOB																

NOTES:

- Hole caved at 5.9' after auger removal, boring was dry.
- No ground water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 916+61, 45' LT	EXPLORATION ID B-082-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 635.5 (MSL) EOB: 7.5 ft.	PAGE 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.447505 N, 82.072484 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5 INCHES	635.1																	
CONCRETE - 9-1/4 INCHES	634.3	1																
GRANULAR BASE - 3 INCHES	634.1	2	2															
POSSIBLE FILL: Very-stiff to hard brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	631.0	3	5	10	67	SS-1	3.5-4.5	4	7	14	40	35	30	18	12	13	A-6a (9)	
		4	6	13	89	SS-2	3.5-4.5	5	9	13	40	33	29	16	13	13	A-6a (9)	
Stiff to very-stiff dark-brown and dark-gray SILTY CLAY , little to some fine to coarse sand, trace fine gravel, damp to moist.	628.0	5	8	26	17	SS-3	3.5-4.0	-	-	-	-	-	-	-	-	19	A-6b (V)	
		6	10	12														
		7	11	29	78	SS-4	1.0-2.0	-	-	-	-	-	-	-	-	28	A-6b (V)	
			14															

EOB

NOTES:

- No ground water encountered during drilling

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 920+78, 45' RT	EXPLORATION ID B-083-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 634.4 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.448375 N, 82.071442 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 5-3/4 INCHES	634.4																	
CONCRETE - 9-1/2 INCHES	633.9	1																
GRANULAR BASE - 5 INCHES	633.1	2																
FILL: Hard dark-gray mottled with brown SILT AND CLAY , little to some fine to coarse sand, trace fine gravel, damp.	632.7	3	2															
		4	4	12	94	SS-1	4.5+	4	10	13	42	31	26	14	12	12	A-6a (8)	
Very-stiff to hard dark-gray mottled with brown CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, moderately organic (LOI = 6.0%), few wood fragments, moist.	629.8	5	3	5	100	SS-2A	4.0-4.5	7	8	11	34	40	31	18	13	17	A-6a (9)	
		6	3	6		SS-2B	4.0-4.5	-	-	-	-	-	-	-	-	28	A-7-6 (V)	
		7	4	17	72	SS-3	4.0-4.5	-	-	-	-	-	-	-	-	25	A-7-6 (V)	
	626.4	8	3	5	17	94	SS-4	3.0-4.5	-	-	-	-	-	-	-	21	A-7-6 (V)	
		EOB	7															

NOTES:

- No ground water encountered during drilling

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / T. FROST	DRILL RIG: S&ME ATV D50 (R61)	STATION / OFFSET: 923+93, 29' LT	EXPLORATION ID: B-084-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / S. SMITH	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 6/7/22	ELEVATION: 633.5 (MSL) EOB: 6.5 ft.	PAGE 1 OF 1
START: 2/20/23 END: 2/20/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 69.8	LAT / LONG: 41.449224 N, 82.071110 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4 INCHES	633.5																	
FILL: Very-stiff dark-brown SILTY CLAY , some fine to coarse sand, some fine gravel, dry to damp.	631.5	1	8	19	39	SS-1	3.0	29	15	13	21	22	34	16	18	10	A-6b (4)	
Very-stiff to hard brown SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.		2	7	27	56	SS-2	4.5+	6	5	11	36	42	35	17	18	14	A-6b (11)	
		3	11															12
Stiff dark-gray CLAY , some to "and" silt, little fine to coarse sand, trace fine gravel, damp to moist.	628.5	4	9	22	28	SS-3	3.5-4.0	-	-	-	-	-	-	-	-	14	A-6b (V)	
		5	8															11
	627.0	6	12	26	83	SS-4	1.0-4.0	-	-	-	-	-	-	-	-	25	A-7-6 (V)	
			11															11

NOTES:

- No ground water encountered during drilling

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 928+37, 21' RT	EXPLORATION ID B-085-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 639.4 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.450205 N, 82.070150 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4-1/2 INCHES	639.0																	
FILL: Very-stiff brown mottled with gray SILTY CLAY , little fine to coarse sand, trace fine gravel, few roots, damp.	636.9	1	3	12	83	SS-1	3.5-4.0	8	5	10	31	46	37	20	17	19	A-6b (11)	
Stiff to very-stiff brown mottled with gray CLAY , some silt, little fine to coarse sand, trace fine gravel, damp to moist.	635.4	3	3	12	72	SS-2	1.5-3.5	1	3	9	31	56	48	22	26	23	A-7-6 (16)	
Very-stiff to hard brown and gray SILTY CLAY , little fine to coarse sand, trace fine gravel, damp to moist.	632.4	4	2	15	100	SS-3	2.0-4.5	-	-	-	-	-	-	-	-	15	A-6b (V)	
		6	4	22	100	SS-4	4.0-4.5	-	-	-	-	-	-	-	-	19	A-6b (V)	
		7	7															

NOTES:

- No ground water encountered during drilling

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 932+31, 34' LT	EXPLORATION ID: B-086-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 648.2 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 11/14/22 END: 11/14/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.451229 N, 82.069602 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 13-1/4 INCHES	648.2																	
GRANULAR BASE - 8-1/2 INCHES	647.1	1																
POSSIBLE FILL: Very-stiff to hard brown SILT AND CLAY, little fine to coarse sand, trace fine gravel, damp.	646.4	2	3	5	16	67	SS-1	3.75-4.5+	6	8	12	37	37	32	19	13	15	A-6a (9)
	644.7	3	7	9	22	100	SS-2	2.0-3.0	7	11	14	35	33	29	17	12	15	A-6a (7)
Very-stiff to hard brown and gray SILT AND CLAY, some fine to coarse sand, trace fine gravel, few silt zones, damp.		640.2	4	3	5	17	100	SS-3	1.75-3.25	-	-	-	-	-	-	-	-	17
	5		8	10	26	100	SS-4	2.5-4.5+	-	-	-	-	-	-	-	-	17	A-6a (V)
		6	10	10														
		7																
		8																
		EOB																

NOTES:

- No groundwater noted during drilling.
- After removal of augers, boring was dry.
- Patched with the recovered pavement core and cold-patch asphalt.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 936+38, 25' RT	EXPLORATION ID B-087-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 656.1 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.452089 N, 82.068629 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 13-1/2 INCHES	656.1																	
GRANULAR BASE - 8 INCHES	655.0	1																
FILL: Hard dark-gray SILT AND CLAY , some fine to coarse sand, little fine gravel, few roots, damp.	654.4	2	3															
	652.6	3	5	17	83	SS-1	4.5+	14	12	19	27	28	28	16	12	13	A-6a (5)	
4		4	7	15	83	SS-2	4.5+	5	7	10	36	42	35	18	17	16	A-6b (11)	
Very-stiff to hard brown mottled with gray SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.	648.1	5	3															
		6	5	15	100	SS-3	3.0-4.0	-	-	-	-	-	-	-	-	17	A-6b (V)	
		7	4	6														
		8	4	6	14	100	SS-4	4.0-4.5	-	-	-	-	-	-	-	16	A-6b (V)	
		EOB	6															

NOTES:

- No ground water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 940+49, 8' LT	EXPLORATION ID: B-088-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 658.2 (MSL) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 11/14/22 END: 11/14/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.453045 N, 82.067834 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 2 INCHES	658.0	0																
FILL: Medium-dense dark brown GRAVEL WITH SAND, SILT, AND CLAY, damp.	655.7	1	5	3	12	39	SS-1	-	36	16	14	18	16	29	18	11	14	A-2-6 (0)
Hard brown and gray SILT AND CLAY, some fine to coarse sand, trace fine gravel, damp.	655.7	2	5	6	18	39	SS-2	4.0 - 4.25	3	11	13	37	36	31	18	13	17	A-6a (9)
		3	4	8	26	100	SS-3	4.5+	-	-	-	-	-	-	-	-	12	A-6a (V)
	651.2	4	11	12	31	33	SS-4	4.5+	-	-	-	-	-	-	-	-	11	A-6a (V)
		5	12															
		6																
		7																

NOTES:

- Groundwater encountered at 0.3' during drilling.
- After removal of augers the boring did not cave and groundwater was observed at 1.5'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 944+28, 9' RT	EXPLORATION ID B-089-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 660.2 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.453799 N, 82.066900 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4 INCHES	659.9	1																
FILL: Very-stiff to hard dark-brown and brown SILT AND CLAY , some fine to coarse sand, little to some fine to coarse gravel, damp.		2	8	6	18	100	SS-1	4.0-4.5	36	12	12	21	19	31	17	14	11	A-6a (2)
		3	4	4	15	78	SS-2	3.5-4.0	14	10	13	32	31	31	18	13	14	A-6a (7)
Very-stiff brown mottled with gray SILTY CLAY , little fine to coarse sand, trace fine gravel, damp to moist.	656.2	4	3	5	15	83	SS-3	2.0-2.5	-	-	-	-	-	-	-	-	21	A-6b (V)
		5	5	6	15	83	SS-3	2.0-2.5	-	-	-	-	-	-	-	-	21	A-6b (V)
		6	3	5	17	89	SS-4	2.5-2.75	-	-	-	-	-	-	-	-	23	A-6b (V)
	653.2	7	5	7	17	89	SS-4	2.5-2.75	-	-	-	-	-	-	-	-	23	A-6b (V)

NOTES:

- No ground water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

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S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ

PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 948+05, 27' LT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	B-090-0-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 657.6 (MSL) EOB: 8.0 ft.	PAGE
START: 11/14/22 END: 11/14/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.454626 N, 82.066040 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 13 INCHES	657.6																	
GRANULAR BASE - 8 1/2 INCHES	656.5	1																
Very-stiff brown to dark-brown SANDY SILT , some clay, little fine to coarse gravel, damp.	655.8	2																
	654.1	3	9	20	100	SS-1	2.5	18	14	17	28	23	25	17	8	12	A-4a (3)	
4		4	4	10	100	SS-2	2.5 - 2.75	4	7	12	32	45	39	18	21	19	A-6b (12)	
Very-stiff to hard brown mottled with dark-brown SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.	649.6	5	6															
		6	6	20	100	SS-3	3.0 - 3.75	-	-	-	-	-	-	-	-	19	A-6b (V)	
		7	5															
		8	7	22	44	SS-4	3.75 - 4.5+	-	-	-	-	-	-	-	-	19	A-6b (V)	
		EOB	10															

NOTES:

- No groundwater noted during drilling.
- After removal of augers, boring was dry.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 952+41, 32' RT	EXPLORATION ID B-091-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 650.7 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.455367 N, 82.064774 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 13 INCHES	650.7																	
GRANULAR BASE - 7 INCHES	649.6	1																
FILL: Very-stiff to hard dark-gray SANDY SILT , some clay, little fine gravel, few shale fragments, damp.	649.0	2	4															
		3	7	19	100	SS-1	3.0-4.0	15	13	20	31	21	22	16	6	13	A-4a (3)	
		4	5	6	15	83	SS-2	3.5-3.75	12	12	15	35	26	21	14	7	10	A-4a (5)
		5	4	16	44	83	SS-3	4.5+	-	-	-	-	-	-	-	-	14	A-4a (V)
		6	8	12	33	67	SS-4	4.5+	-	-	-	-	-	-	-	-	10	A-4a (V)
	642.7	8	12	12														

NOTES:

- No ground water encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 956+35, 26' LT	EXPLORATION ID: B-092-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 642.2 (MSL) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 11/14/22 END: 11/14/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.456249 N, 82.063918 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 1 INCH	642.2																	
Hard brown mottled with dark-brown SANDY SILT , some clay, little fine to coarse sand, trace fine gravel, damp.		1	6	14	100	SS-1	4.5+	8	9	14	38	31	27	17	10	13	A-4a (7)	
		2	4	8	21	39	SS-2	4.5+	17	12	11	31	29	28	18	10	12	A-4a (5)
		3	6	8	25	100	SS-3	4.5+	-	-	-	-	-	-	-	-	23	A-4a (V)
		4	11	28	30	76	100	SS-4	4.5+	-	-	-	-	-	-	-	9	A-4a (V)
	635.2	EOB																

NOTES:
- No groundwater noted during drilling.

NOTES: SEE ABOVE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 960+22, 26' RT	EXPLORATION ID B-093-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 635.2 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.456883 N, 82.062819 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 5 INCHES	635.2																	
FILL: Stiff gray SILT AND CLAY , some fine to coarse sand, some fine gravel, few roots, damp.	634.8	1	4														< < < <	
	632.7	2	7	17	33	SS-1	1.5-2.0	23	15	14	26	22	27	15	12	13	A-6a (3)	< < < <
FILL: Stiff to very-stiff brown mottled with gray CLAY , some silt, little fine to coarse sand, trace fine gravel, damp to moist.		3	3															< < < <
		4	4	12	78	SS-2	2.5-3.0	4	5	10	31	50	42	18	24	20	A-7-6 (14)	< < < <
		5	2															< < < <
		6	3	10	89	SS-3	1.5-1.75	-	-	-	-	-	-	-	-	15	A-7-6 (V)	< < < <
		7	2															< < < <
	628.2	EOB	3	14	83	SS-4	2.5-3.25	-	-	-	-	-	-	-	-	26	A-7-6 (V)	< < < <

NOTES:

- Groundwater was not encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 964+08, 45' LT	EXPLORATION ID: B-094-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 632.0 (MSL) EOB: 8.0 ft.	PAGE: 1 OF 1
START: 11/14/22 END: 11/14/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.457801 N, 82.061992 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 5 INCHES	631.6																		
CONCRETE - 9-3/4 INCHES	630.8	1																	
GRANULAR BASE - 7 INCHES	630.2	2																	
FILL: Hard gray SANDY SILT, some clay, little fine to coarse gravel, damp.	628.5	3	5	6	13	100	SS-1	4.5+	15	12	12	33	28	25	16	9	11	A-4a (5)	
Stiff to very-stiff brown mottled with gray CLAY, some silt, little fine to coarse sand, trace fine gravel, damp to moist.		4	3	5	13	61	SS-2	1.0 - 2.0	1	3	11	31	54	50	23	27	26	A-7-6 (17)	
		5	2	3	10	33	SS-3	3.0 - 3.75	-	-	-	-	-	-	-	-	-	18	A-7-6 (V)
		6	4	8	24	100	SS-4	2.25 - 3.0	-	-	-	-	-	-	-	-	-	22	A-7-6 (V)
	624.0	7	4	8	24	100	SS-4	2.25 - 3.0	-	-	-	-	-	-	-	-	-	22	A-7-6 (V)
		8	10																

NOTES:

- No seepage noted.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINTWP\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 968+42, 46' RT	EXPLORATION ID B-095-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 632.1 (MSL) EOB: 8.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.458478 N, 82.060647 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ASPHALT - 4-3/4 INCHES	632.1																	
CONCRETE - 10-1/2 INCHES	630.7	1																
GRANULAR BASE - 5 INCHES	630.3	2																
FILL: Loose dark-gray GRAVEL WITH SAND, SILT, AND CLAY , damp.	629.1	3	3	10	61	SS-1	-	38	19	11	17	15	30	17	13	20	A-2-6 (1)	
Hard brown and gray SILT AND CLAY , little fine to coarse sand, trace fine gravel, damp to moist.	627.1	4	3	5	11	SS-2	4.5+	5	7	10	41	37	28	16	12	14	A-6a (9)	
Very-stiff brown mottled with gray CLAY , some silt, trace to little fine to coarse sand, trace fine gravel, damp to moist.	624.1	5	2															
		6	3	10	56	SS-3	2.0-2.5	-	-	-	-	-	-	-	-	27	A-7-6 (V)	
		7	4	5	18	100	SS-4	3.0-3.5	-	-	-	-	-	-	-	20	A-7-6 (V)	
		8	4	5	18	100	SS-4	3.0-3.5	-	-	-	-	-	-	-	20	A-7-6 (V)	
		EOB	8	8														

NOTES:

- Groundwater was not encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 972+43, 31' LT	EXPLORATION ID: B-096-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 632.3 (MSL) EOB: 7.0 ft.	PAGE: 1 OF 1
START: 11/14/22 END: 11/14/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.459407 N, 82.059828 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4 INCHES	632.0																	
Hard gray SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	629.8	1	7	18	44	SS-1	4.5+	10	10	12	35	33	30	17	13	11	A-6a (8)	
Very-stiff to hard brown and dark-brown SANDY SILT , some clay, trace fine gravel, damp.	628.3	2	5	17	72	SS-2	4.5+	7	9	12	40	32	27	17	10	11	A-4a (7)	
Very-stiff to hard brown mottled with gray CLAY , some silt, trace to little fine to coarse sand, trace fine gravel, organic odor, moist.	625.3	3	6	7														
		4	4	5	13	100	SS-3	3.5-4.5+	-	-	-	-	-	-	-	-	20	A-7-6 (V)
		5	5	5														
		6	5	7	24	100	SS-4	2.0-3.5	-	-	-	-	-	-	-	-	24	A-7-6 (V)
		7	7	11														

NOTES:

- No seepage noted.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: OTB / C. SVITAK	DRILL RIG: OTB SIMCO 2800	STATION / OFFSET: 976+39, 15' RT	EXPLORATION ID B-097-0-22
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. KHAN	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	
PID: 107714 BR ID: N/A	DRILLING METHOD: 2-1/4" HSA	CALIBRATION DATE: 12/22/22	ELEVATION: 633.1 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 4/6/23 END: 4/7/23	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.2	LAT / LONG: 41.460095 N, 82.058683 W	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
ROOTMAT - 4 INCHES	633.1																	
FILL: Stiff gray SILTY CLAY , some fine to coarse sand, little fine gravel, damp.	632.8	1	3														< < < <	
	630.6	2	4	10	100	SS-1	1.25-2.0	20	10	11	23	36	40	22	18	20	A-6b (8)	< < < <
Stiff to very-stiff gray mottled with brown CLAY , some silt, little fine to coarse sand, trace fine gravel, damp.		3	2														< < < <	
		4	5	12	67	SS-2	3.25-3.75	2	5	9	25	59	46	20	26	22	A-7-6 (16)	< < < <
		5	2														< < < <	
		6	3	10	72	SS-3	1.5-2.0	-	-	-	-	-	-	-	-	21	A-7-6 (V)	< < < <
		7	4														< < < <	
	626.1	EOB	5	14	100	SS-4	2.0-2.5	-	-	-	-	-	-	-	-	24	A-7-6 (V)	< < < <

NOTES:

- Encountered seepage at 2.0'.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:41 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ



PROJECT: LOR-90-10.76	DRILLING FIRM / OPERATOR: S&ME / P. TUTTLE	DRILL RIG: S&ME CME 550X (R50)	STATION / OFFSET: 980+06, 45' LT	EXPLORATION ID
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: S&ME / M. TORRES	HAMMER: CME AUTOMATIC	ALIGNMENT: IR 90 MAINLINE	B-098-0-22
PID: 107714 BR ID: N/A	DRILLING METHOD: 4-1/2" CFA	CALIBRATION DATE: 3/4/21	ELEVATION: 634.8 (MSL) EOB: 8.0 ft.	PAGE
START: 11/14/22 END: 11/14/22	SAMPLING METHOD: SPT	ENERGY RATIO (%): 78.7	LAT / LONG: 41.460933 N, 82.057912 W	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
ASPHALT - 4 INCHES	634.5																		
CONCRETE - 10 INCHES	633.6	1																	
GRANULAR BASE - 8 INCHES	632.9	2																	
FILL: Very-stiff to hard dark-brown and brown SILT AND CLAY , some fine to coarse sand, trace fine gravel, damp.	631.3	3	5	4	13	100	SS-1	3.75-4.5	-	-	-	-	-	30	18	12	15	A-6a (V)	
Hard dark-brown to brown SILTY CLAY , little fine to coarse sand, trace fine gravel, damp.	629.8	4	10	13	31	100	SS-2	4.5+	8	8	11	36	37	33	17	16	14	A-6b (10)	
Very-stiff to hard dark-brown to brown CLAY , some silt, little fine to coarse sand, trace fine gravel, damp.	626.8	5	5	5	14	100	SS-3	3.25-4.25	-	-	-	-	-	-	-	-	-	19	A-7-6 (V)
		6	8	11	33	100	SS-4	3.75-4.5+	-	-	-	-	-	-	-	-	-	21	A-7-6 (V)
		7																	
		8																	
		EOB																	

NOTES:

- Groundwater was not encountered during drilling.

NOTES: SEE ABOVE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; SOIL CUTTINGS MIXED WITH BENTONITE

S&ME ODOT LOG (8.5X11) - SGE 01/2019 - OH DOT.GDT - 6/27/23 13:42 - R:\SERVICE LINES\CS-2557\CLEVELAND\01 - LABORATORY\02 - GINT\PROJECTS\217525.GPJ