

FHWA REGION	STATE	PROJECT	DATE
	OHIO	BRIDGE EXTENSION, LAK-90-26.87 S.R. 528 OVER I-90	87-27-94

LAKE COUNTY LAK-90-26.87

Date Started 12/29/93 Sampler: Type S.S. Dia. 2.0" Water Encountered 49'-5" Project I.D.: 142-35142
Date Completed 12/29/93 Casing: Length 5.0' Dia. 3.25" Water on Completion NONE BRIDGE EXTENSION, LAK-90-26.87
Surface Elevation 825.8± LAKE COUNTY S.R. 528 OVER I-90

Boring No: B-1 Station & Offset 28 + 07, 8' LEFT

Elev.	Std. pen. Test	Description	Depth (Feet)	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class	Qu (psf)
824.5				AU-1								6	A-3a	4600.0
6-9-9		HARD/V/STIFF, MOIST, BROWN TO GRAY SILT, TRACE ROCK FRAGMENTS, TRACE SAND.	5	SS-2								15	A-4b	
				ST-3										
3-6-9			10	SS-4								17	A-4b	
4-6-7			15	SS-5	3	6	6	50	35	25	8	18	A-4b	6681.0
			20	ST-6										
8-12-12			25	SS-7								11		
10-18-24			30	SS-8								15		
13-16-19			35	SS-9								15		
9-13-15			40	SS-10								18		
6-8-11			45	SS-11								17		
6-9-9			50	SS-12								17		
5-7-8			55	SS-13								19		
766.8		V/STIFF, SATURATED, GRAY SILT.	60	SS-14				100				23	A-4b	
762.8		V/DENSE, SATURATED, GRAY SAND, TRACE CLAY.	65	SS-15								12	A-3a	
756.8		40'-50'/4' *** END OF BORING 70'-0" ***	70	SS-16								15		
755.8		*** 10' ASPHALT CONCRETE *** *** 6" SAND & GRAVEL BASE ***												

Date Started 1/10/94 Sampler: Type S.S. Dia. 2.0" Water Encountered 28'-5" Project I.D.: 142-35142
Date Completed 1/10/94 Casing: Length 5.0' Dia. 3.25" Water on Completion NONE BRIDGE EXTENSION, LAK-90-26.87
Surface Elevation 803.0± LAKE COUNTY S.R. 528 OVER I-90

Boring No: B-3 Station & Offset 29 + 70, 28' LEFT

Elev.	Std. pen. Test	Description	Depth (Feet)	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class	Qu (psf)
802.7				SS-1								16		
2-4-5		V/STIFF TO HARD, MOIST, BROWN TO GRAY SILTY CLAY, TRACE ROCK FRAGMENTS.	5	SS-2								17		
8-14-15				SS-3								17		
6-10-12			10	SS-4								15		
9-10-16			15	SS-5								13		
8-15-20			20	SS-6	3	5	10	42	40	33	16	15	A-6b	
7-11-12			25	SS-7								14		
6-9-12			30	SS-8								16		
6-11-12			35	SS-9								16		
5-11-12			40	SS-10								21		
4-8-8			45	SS-11	35	34	24	7		NP	NP	11	A-1-b	
760.5		DENSE, SATURATED, GRAY SAND, TRACE CLAY.	50	SS-12								9	A-4b	
754.5		HARD, MOIST, GRAY, SILT.	55	SS-13								6		
751.5		SOFT, WEATHERED TO FIRM GRAY WEATHERED SHALE.	60	SS-14								10		
			65	SS-15								9		
738.0		END OF BORING 65'-0" *** 3' TOPSOIL ***	70											

Date Started 1/11/94 Sampler: Type S.S. Dia. 2.0" Water Encountered 34'-9" Project I.D.: 142-35142
Date Completed 1/12/94 Casing: Length 5.0' Dia. 3.25" Water on Completion NONE BRIDGE EXTENSION, LAK-90-26.87
Surface Elevation 804.0± LAKE COUNTY S.R. 528 OVER I-90

Boring No: B-2 Station & Offset 29 + 07.5', 30' RIGHT

Elev.	Std. pen. Test	Description	Depth (Feet)	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class	Qu (psf)
803.7				SS-1								9		
2-3-8		V/STIFF, MOIST, BROWN, SILT, TRACE ORGANICS.	5	SS-2								24	A-4b	
5-7-10				SS-3								59	A-4b	
804.0		V/STIFF, MOIST, BLACK, SILT, W/ ORGANICS.	10	SS-4								20	A-4b	
4-7-10				SS-5								14	A-4b	
8-13-15		V/STIFF, MOIST, BROWN, SILT, TRACE ORGANICS.	15	SS-6	2	8	6	37	47	26	10	15		9419.0
791.0		HARD, MOIST, GRAY, SILT, TRACE ROCK FRAGMENTS.	20	SS-7								8		
8-16-22			25	SS-8								15		
7-12-15			30	SS-9								15		
7-12-15			35	SS-10								21		
7-15-30			40	SS-11	33	10	18	25	14			12	A-4a	
761.5		V/STIFF, SATURATED, BROWN SANDY SILT.	45	SS-12								6	A-4b	
758.0		HARD, MOIST, GRAY SILT.	50	SS-13								9	A-4b	
751.0		HARD, MOIST, GRAY, SILT, SOME WEATHERED SHALE.	55	SS-14								7		
745.0		SOFT WEATHERED GRAY SHALE.	60	DB-15										
744.0		SOFT GRAY SHALE.	65											
		CORE DATA: RUN RECOVERY: 10'-0" 96% LONGEST PIECE: 14" 50% R. Q. D.:	70											
734.0		END OF BORING 70'-0" * 4' SAND & GRAVEL *												

Date Started 1/10/94 Sampler: Type S.S. Dia. 2.0" Water Encountered 46'-0" Project I.D.: 142-35142
Date Completed 1/10/94 Casing: Length 5.0' Dia. 3.25" Water on Completion NONE BRIDGE EXTENSION, LAK-90-26.87
Surface Elevation 802.0± LAKE COUNTY S.R. 528 OVER I-90

Boring No: B-4 Station & Offset 30 + 56, 28' LEFT

Elev.	Std. pen. Test	Description	Depth (Feet)	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class	Qu (psf)
801.7				SS-1								18		
2-3-5		V/STIFF TO HARD, MOIST, BROWN SILT, TRACE ROCK FRAGMENTS.	5	SS-2								16	A-4b	
4-8-10				SS-3								16	A-4b	
5-8-11			10	ST-4										4819.0
789.0		DENSE, MOIST, BROWN SAND TRACE CLAY.	15	SS-5								14	A-3a	
784.0		V/STIFF, MOIST, GRAY, SILT.	20	SS-6								17		
18-26-22			25	SS-7	2	6	7	40	45	24	10	15	A-4b	
14-17-16			30	SS-8								17		
5-7-11			35	ST-9								16		
			40	SS-10								23		
10-10-13			45	SS-11	20	15	10	35	20			7		
11-26-33			50	SS-12								11	A-4b	
754.0		HARD, MOIST, GRAY SILT, SOME WEATHERED SHALE.	55	SS-13								10		
749.0		SOFT TO FIRM GRAY SHALE.	60	SS-14								7		
			65	SS-15								6		
			70	SS-16										
732.0		END OF BORING 70'-0" * 3' TOPSOIL *												

Date Started 1/3/94 Sampler: Type S.S. Dia. 2.0" Water Encountered 52'-0" Project I.D.: 142-35142
Date Completed 1/3/94 Casing: Length 5.0' Dia. 3.25" Water on Completion NONE BRIDGE EXTENSION, LAK-90-26.87
Surface Elevation 820.5± LAKE COUNTY S.R. 528 OVER I-90

Boring No: B-5 Station & Offset 31 + 42', 12' RIGHT

Elev.	Std. pen. Test	Description	Depth (Feet)	SAMPLE NUMBER	% Agg.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	W.C.	SHTL Class	Qu (psf)
819.5				AU-1								12		
4-7-7		V/STIFF TO STIFF, MOIST BROWN SILT, TRACE ROCK FRAGMENTS.	5	SS-2								19		
5-5-8				SS-3								16		
5-6-10			10	SS-4								17	A-4b (FILL)	
			15	ST-5										7667
802.0		MED. DENSE, MOIST, GRAY SLUG.	20	SS-6								15	(FILL)	
800.5		V/STIFF, WET, GRAY SILT.	25	ST-7										3176
			30	SS-8								8		
10-12-17			35	SS-9								12		
5-10-20			40	SS-10								16		
6-6-8			45	SS-11								15		
8-10-14			50	SS-12				88	12			18	A-4b	
4-6-9			55	SS-13								23		
764.5		V/STIFF, WET, GRAY SILTY CLAY.	60	SS-14				45	55	31	16	24	A-6b	
7-8-9			65	SS-15								12	A-6b	
758.5		V/STIFF, WET, GRAY SILTY CLAY & WEATHERED SHALE.	70	SS-16								8		
750.5		END OF BORING 70'-0" * 6" ASPHALT CONCRETE * * SAND & GRAVEL BASE *												

NOTE:

- Δ NO ATTERBERG LIMITS. DESCRIPTION/CLASSIFICATION IS VISUAL/MANUAL WITH THE AID OF GRAIN SIZE ANALYSIS.
- ΔΔ DESCRIPTION/CLASSIFICATION IS VISUAL/MANUAL WITH THE AID OF PREVIOUS BORING INFORMATION.

PS&I CONSULTANTS, INC.
 44158 (21) 417-1335
 SCALE: NONE
 DATE: 1-27-94
 REVIEWED: AV
 CHECKED: PS&I
 DRAWN BY: MAC
 REVISED: 5-24-95

SOILS BORING LOG PRESENTATION

LAK-90-26.87