

**TEST BORING LOG STA. 3+508.68, 2.34m (R)**

ACT PROJECT NO. 9406.13 BORING NO. B-1 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 06-29-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 192.02m WILLLOUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				51 mm Asphalt Pavement 175 mm Concrete Slab					
0.75	1	SS		Brown coarse and fine sand, little gravel, trace cinders. Fill. Loose. Moist. (A-3a) (Visual)	2-3-3	10.5			
0.75				Brown and gray sandy silt, trace gravel and cinders. Fill. Loose. Moist. (A-4a) (Visual)		10.3			
1.5	2	SS		Brown and gray clay, some silt, little sand, trace gravel. Fill. Medium stiff. Moist. (A-7-6)	2-3-4	21.3	41/20		221
1.5						26.6			
2.25	3	SS		Brown and gray sandy silt. Medium dense. Moist. (A-4a) (Visual)	2-7-9	23.9			432+
2.25						19.1			
2.25				End of boring @ 2.4 m.					
3.0									
3.75									
4.5									

ENCOUNTERED AT: NONE  
 ON COMPLETION: 2.3 m  
 AFTER: NONE  
 REMARKS: BULK SAMPLE OBTAINED FROM 0.5 TO 1.5 METERS.

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

**TEST BORING LOG STA. 3+633.05, 1.53m (L)**

ACT PROJECT NO. 9406.13 BORING NO. B-2 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 07-11-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 192.08m WILLLOUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				13 mm Asphalt Pavement 103 mm Concrete Slab					
0.75	1	SS		Brown coarse and fine sand, some gravel, trace clay. Loose to medium dense. Moist. (A-3a) (Visual)	4-5-5	17.1			288
0.75				Brown silt and clay, little sand, trace gravel. Stiff. Moist. (A-6a) (Visual)		21.9			221
1.5	2	SS				21.9			
2.25	3	SS		Brown silty clay, trace sand, trace rock fragments. Very stiff. Moist. (A-5b) (Visual)	6-8-9	20.9			432+
2.25				End of boring @ 2.4 m.					
3.0									
3.75									
4.5									

ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: BULK SAMPLE OBTAINED FROM 0.5 TO 1.5 METERS.

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

**TEST BORING LOG STA. 3+749.28, 2.17m (R)**

ACT PROJECT NO. 9406.13 BORING NO. B-3 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 06-29-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 192.12m WILLLOUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				51 mm Asphalt Pavement 203 mm Concrete Slab					
0.75	1	SS		Brown coarse and fine sand, some gravel, trace clay and silt. Fill. Medium dense. Moist. (A-3a) (Visual)	4-8-9	7.0			
0.75						7.3			
1.5	2	SS				7.3			
2.25	3	SS		Brown coarse and fine sand, some gravel, trace silt. Loose. Moist to wet. (A-3a) (Visual)	3-4-5	8.2			
2.25						11.7			
3.0	4	SS			3-3-2	11.7			
3.0				End of boring @ 3.0 m.					
3.75									
4.5									

ENCOUNTERED AT: 2.6 m  
 ON COMPLETION: 2.6 m  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

**TEST BORING LOG STA. 3+869.18, 6.51m (L)**

ACT PROJECT NO. 9406.13 BORING NO. B-4 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 07-11-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 191.72m WILLLOUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				102 mm Asphalt Pavement 203 mm Concrete Slab					
0.75	1	SS		Brown fine sand. Possible Fill. Dense. Moist. (A-3) (Visual)	4-7-10	14.7			144
0.75				Brown silt and clay, little sand, trace gravel fragments. Very stiff. Moist. (A-6a) (Visual)		20.6			125
1.5	2	SS			4-7-9	20.6			
2.25	3	SS		Brown with trace gray silty clay, trace sand, trace gravel fragments. Very stiff. Moist. (A-6b)	4-7-11	19.7	35/16		432+
2.25						16.6			432+
3.0	4	SS			5-9-12	16.6			432+
3.0						11.5			432+
3.75	5	SS			8-11-11	11.5			432+
3.75				End of boring @ 3.6 m.					
4.5									

ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

**TEST BORING LOG STA. 3+975.50, 4.04m (R)**

ACT PROJECT NO. 9406.13 BORING NO. B-5 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 06-29-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 193.32m WILLLOUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				51 mm Asphalt Pavement 228 mm Concrete Slab					
0.75	1	SS		Brown coarse and fine sand, little gravel, trace silt and clay. Fill. Loose. Moist. (A-3a) (Visual)	2-3-4	15.9			192
0.75				Brown with trace gray silt and clay, trace fine sand, trace rock fragments. Medium to stiff. Moist. (A-6a) (Visual)		17.4			
1.5	2	SS			3-4-5	23.1			365
1.5						22.4			432+
2.25	3	SS		Brown and gray sandy silt, trace fine sand, trace rock fragments. Medium dense. Moist. (A-4a) (Visual)	4-8-10	16.7			432+
2.25						13.4			432+
3.0	4	SS			7-8-9	13.4			432+
3.0				End of boring @ 3.6 m.					
3.75									
4.5									

ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

**TEST BORING LOG STA. 4+111.50, 7.60m (L)**

ACT PROJECT NO. 9406.13 BORING NO. B-6 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 07-11-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 192.28m WILLLOUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				101 mm Asphalt Pavement 203 mm Concrete Slab					
0.75	1	SS		Brown fine sand. Medium dense. Moist. (A-3) (Visual)	8-6-6	13.3			385
0.75				Brown silty clay, little sand, trace gravel and rock fragments. Stiff to very stiff. Moist. (A-5b) (Visual)		17.6			432+
1.5	2	SS			4-4-7	17.6			432+
1.5						18.6			432+
2.25	3	SS			5-8-10	18.6			432+
2.25						10.0			432+
3.0	4	SS		Gray silt and clay, trace fine sand, trace gravel and rock fragments. Very stiff. Moist. (A-6a) (Visual)	8-11-13	10.0			432+
3.0						9.8			432+
3.75	5	SS			8-11-19	9.8			432+
3.75				End of boring @ 4.5 m.					
4.5									

ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

CALCULATED CHECKED SOIL BORING LOGS LAK-640-3.444 3/5