APPENDIX A

TEST HOLE LOGS

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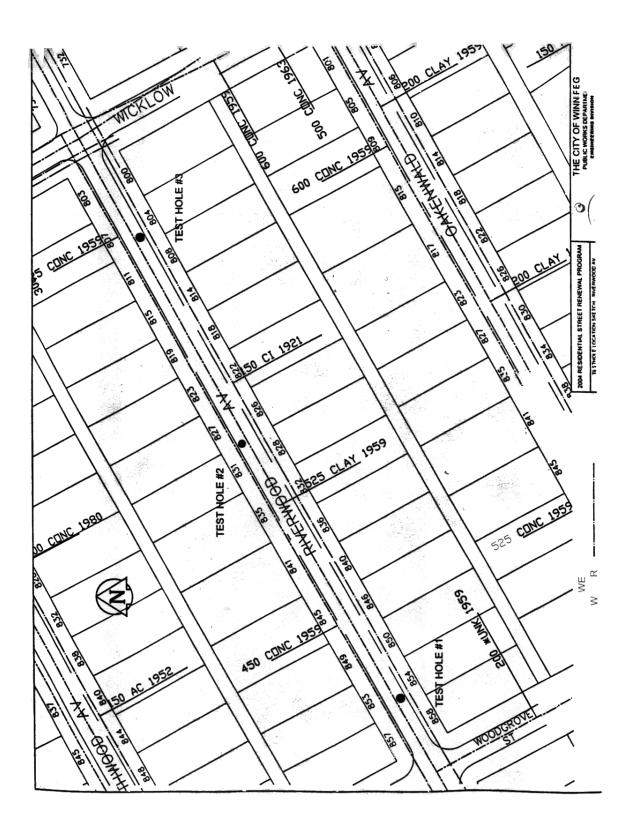
The following test hole logs are provided to aid in the Contractor's evaluation of site conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. however, variations in soils conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities. The nature and extent of variations in soil conditions and variations in groundwater levels may not become evident until construction.



RIVERWOOD AVENUE WOODGROVE STREET TO WICKLOW STREET

2004 STREET RENEWAL PROGRAM

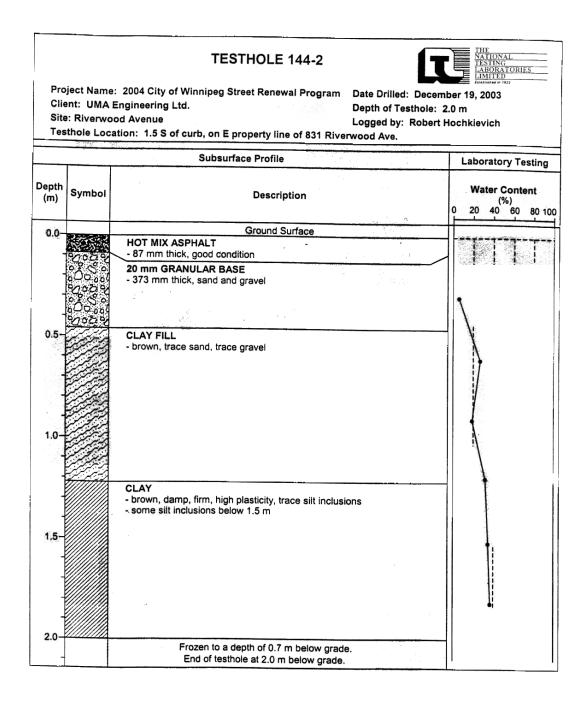
GEOTECHNICAL INVESTIGATION

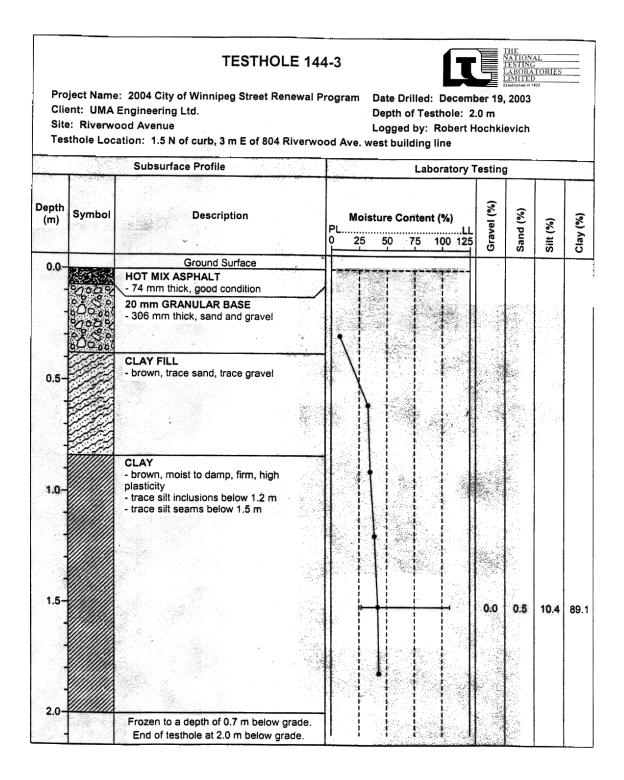


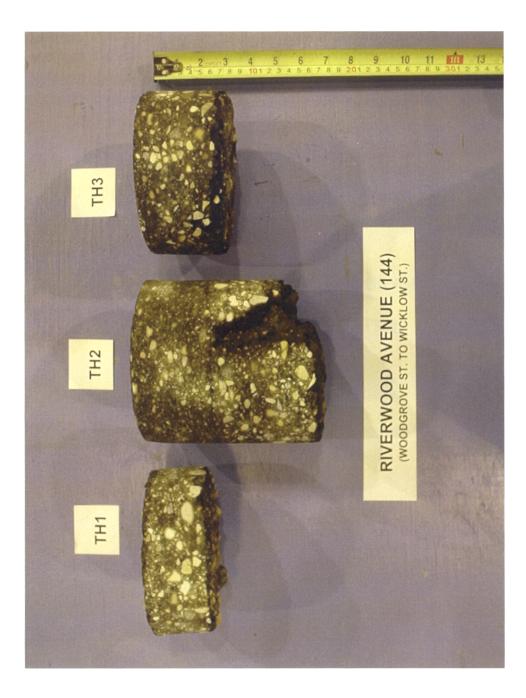
		Pavement Surface	Surface	Pavement Str	ent Structure Material		Sample	Moisture		Particle Si	ze Analysis		A	tterberg Lin	lits
Testhole No.	Testhole Location	Туре	Thickness (mm)	Type	Thickness (mm)	Sample Description	(m)	Content (%)	Gravel (%)	Sand	Silt	Clay (%)	Liquid	Plastic Limit	Plasticit
1	Riverwood Ave.	Asphalt	55	Granular	245		No.								
2	Riverwood Ave.	Asphalt	74	Granular	373			an an air a' a' an							
ω	Riverwood Ave.	Asphalt	74	Granular	306	Clay	. 1.5	42.2	0.0	0.5	10.4	89.1	107	27	8

City of Winnipeg 2004 Street Renewal Program Geotechnical Investigation

Clie Site	ent: UMA I Riverwo	TESTHOLE 144-1 Image: Construction of Winnipeg Street Renewal Program Engineering Ltd. Depth of Testhole: Depth of Testhole: Logged by: Robert ation: 1.75 N of curb, 1 m W of 854 Riverwood Ave. property line	2.0 m
-	;	Subsurface Profile	Laboratory Testing
Depth (m)	Symbol	Description	Water Content (%) 0 20 40 60 80 100
0.0		Ground Surface	
0.0-	2011-5-5	HOT MIX ASPHALT	
-	0000	- 55 mm thick, good condition	
-	a00 an	20 mm GRANULAR BASE	
	0000	- 245 mm thick, sand and gravel	
- 0.5- - - - - 1.0- - - - - -		CLAY - brown, moist, firm, high plasticity, trace silt inclusions	
1.5- 2.0-		Frozen to a depth of 0.7 m below grade.	









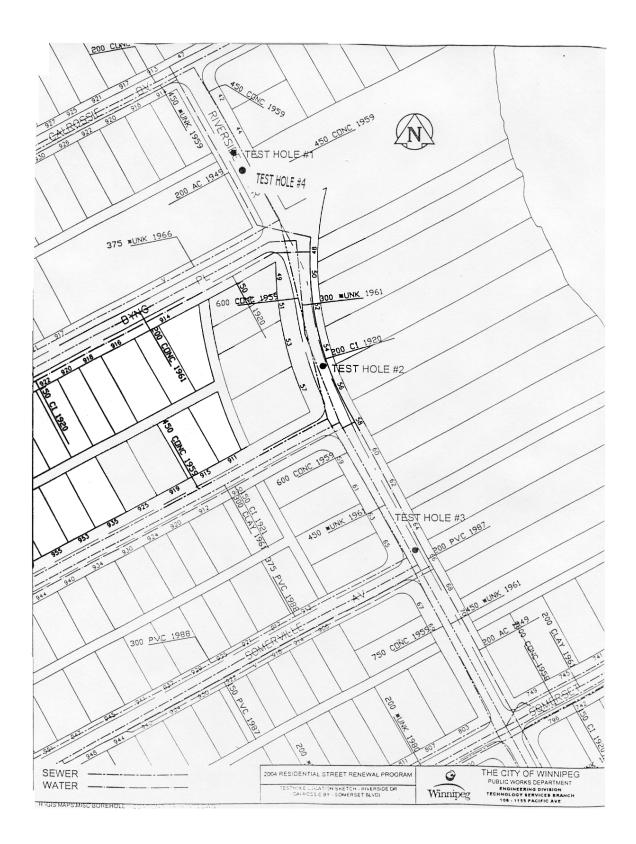
RIVERSIDE DRIVE

CALROSSIE BOULEVARD TO SOMERSET BOULEVARD

2004 STREET RENEWAL PROGRAM

GEOTECHNICAL INVESTIGATION

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Attached to the second s		Liquid Diratio		Fund Limit Limit			21 T 10				
Particle Size Analysis		Sult Clav	-		113 1 87 2		1 A2 A 1 14.3	Ļ			
Particle S	0 00000	Gravel I Sand		(or) 1 (or)	0.0 15		0.0 1 2.9			••••	
Moisture		Content	(%)		36.9		201				
Sample		Depth	Ĵ	1	2.0		8				
		Sample	Description		Clav		5				
Pavement Structure Material		Thickness	(mm)		1386	010	242	327		1400	
Pavement Sti			Type		uranular	Grouder	Clandia	Granular		Granular	
Surface		I hickness	(mm)		13	с Д		3		09	
Pavement S			Type	Acobolt	Asplicit	Achalt		Asphalt		Aspnait	
	Tastel	l estitole	Location	Divorcido Dr	Livelside UI.	Riverside Dr		Riverside Dr.	Diverside Dr	Livelaide Li	
	1 dethold	Diningal	0 N	-		~		~		-]	

