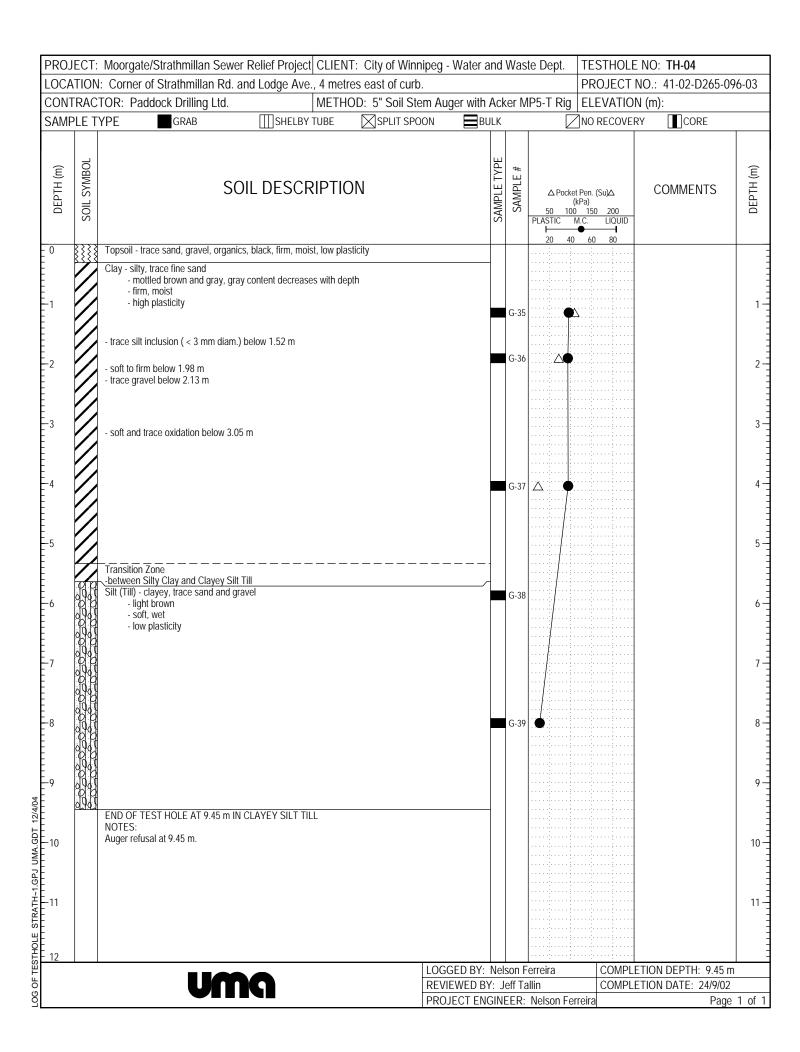
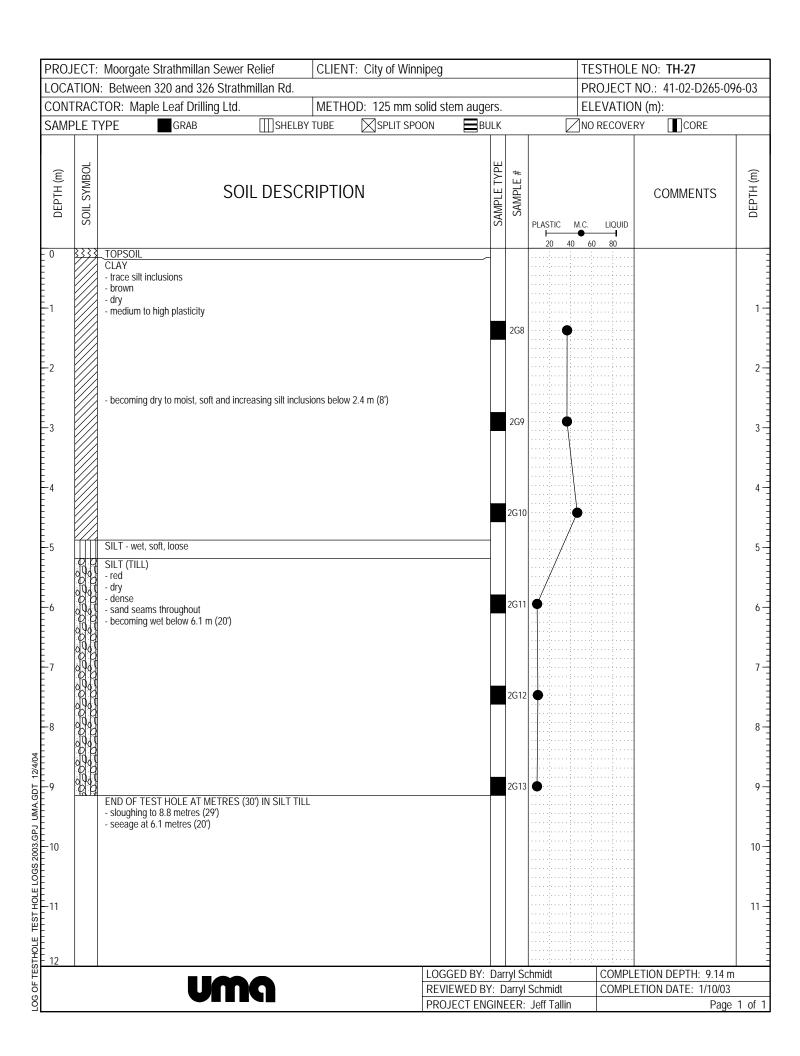
APPENDIX A

TEST HOLE LOGS





PROJECT: Moorgate/Strathmillan Sewer Relief Project CLIENT: City of Winnipeg - Water and Waste Dept.								te Dept.	TESTHOLE NO: TH-05				
LOCA	LOCATION: 30 metres south of Lodge Ave., 3 metres east of curb on Whytewold Rd.									PROJECT NO.: 41-02-D265-096-03			
			Paddock Drilling Ltd.		HOD: 5" Soil Ster			ker N		ELEVATIO			
SAMPLE TYPE GRAB SHELBY TUBE SPLIT										NO RECOVERY CORE			
BACK	FILL T	YPE	BENTONITE	GRAVEL	SLOUGH	GI	ROU	T		CUTTINGS	SAND		
DEPTH (m)	SLOTTED PIEZOMETER	SOIL SYMBOL	Ş	SOIL DESCRIP	TION		SAMPLE TYPE	SAMPLE #	50 100	Pen. (Su)\(\triangle \) Pa) 150 200 1.C. LIQUID 60 80	COMMENTS	DEPTH (m)	
- 0		3333	Topsoil - trace sand, gravel, Gravel (Fill) - sandy	black, firm, moist, low plast	ticity								
-1			- light brown - dense, moist to wet - sand to gravel Clay (Fill) - silty, some fine silty, soft, moist to wet - high plasticity Clay - silty, trace fine sand, silty		n) ovidation			G-40	Δ •			1-	
-3 -4 5			- mottled brown and gr - very soft, moist to we - high plasticity	ay	i., oxidation			G-42	Δ			3 - 4 - 5 - 5 -	
-6 6 			- dark gray and trace gravel	below 5.64 m				G-43)		6 -	
-7 7 			- trace of block/friable structu	ıre below 6.86 m								7 - 8 -	
PJ UMA.GDT 12/4/04	<u>▼</u>		Silt (Till) - clayey, trace sand - light gray - soft to firm, moist to v - low plastcity - dry to moist and very stiff b	vet				G-45 G-46		Δ		9 -	
LOG OF TESTHOLE STRATH~1.GPJ UMA.GDT 12/4/04			END OF TEST HOLE AT 10 NOTES: Piezometer (SP-4) installed i Ground water level measure	n test hole.								11 -	
E TE					<u></u>	LOGGED BY:					ETION DEPTH: 10.67	m	
000	UMA					REVIEWED BY: Jeff Tallin PROJECT ENGINEER: Nelson Ferr				COMPLETION DATE: 24/9/02 rreira Page 1 of 1			

PROJECT: Moorgate/Strathmillan Sewer Relief Project CLIENT: City of Winnipeg - Water and Wa						Nas							
	LOCATION: 40 metres east of Strathmillan Rd., 1.5 metres south of curb on Bruce Ave.									PROJECT NO.: 41-02-D265-096-03			
			Paddock Drilling Ltd.		HOD: 5" Soil Stem			er M		ELEVATIO			
-	PLE TY		GRAB	SHELBY TUBE	SPLIT SPOOM					NO RECOVE			
BACK	(FILL]	YPE	BENTONITE	GRAVEL	SLOUGH	GF	ROUT	Γ		CUTTINGS	SAND		
DEPTH (m)	SLOTTED PIEZOMETER	SOIL SYMBOL		SOIL DESCRIP			SAMPLE TYPE	SAMPLE #	50 100	Pen. (Su)△ (Pa) 150 200 1.C. LIQUID 60 80	COMMENTS	DEРТН (m)	
= 0			Topsoil - trace sand, gravel, Clay (Fill) - silty, trace fine sa	organics black, firm, moist,	low plasticity								
-1 -2 -3			clay (Fill) - silly, trace line s gray and brown - soft to firm, moist - high plasticity Clay - silty, trace fine sand, s - mottled dark gray an - firm, moist - high plasticity	-				G-59 G-60 G-61				1 - 2 - 3 - 4 - 4 -	
5			Silt - trace clay, fine sand - light brown and gray - very soft, wet - none to low plasticity					G-63	•			5 -	
LOG OF TESTHOLE STRATH-1.GPJ UMA.GDT 12/4/04			Silt (Till) - clayey, trace sand - light brown and gray - firm, moist - low plasticity END OF TEST HOLE AT 7.3 NOTES: Seepage and sloughing belocation of the seepage and stoughing belocation of the seepage and	32 m IN CLAYEY SILT TILL bw 4.27 m. in test hole.				G-64				6 - 7 - 8 - 9 - 10 - 11 -	
H 12					1	OGGED BY:	Nels	on F			ETION DEPTH: 7.32 m	<u> </u>	
UMA					R	REVIEWED BY: Jeff Tallin					COMPLETION DATE: 24/9/02		
					Р	ROJECT ENG	GINE	ER:	Nelson Fer	rreira Page 1 of 1			

