

BURROWS AVENUE

BATTERY STREET TO SGT. TOMMY PRINCE STREET

2006 STREET RENEWAL PROGRAM

GEOTECHNICAL INVESTIGATION



UMA

ALCO

Public Works Department-Engineering Division 2006 Residential Street Renewal Program

Burrows Avenue-Testhole Locations From Battery Street to Sgt.Tommy Prince Street

Figure - B-TH1

City of Winnipeg 2006 Street Renewal Program Geotechnical Investigation

		Pavement Surface		Pavement Structure Material			Sample	Moisture		Particle Siz	ze Analysis	Atterberg Limits			
Testhole	Testhole		Thickness		Thickness	Sample	Depth	Content	Gravel	Sand	Silt	Clay	Liquid	Plastic	Plasticity
No.	Location	Туре	(mm)	Туре	(mm)	Description	(m)	(%)	(%)	(%)	(%)	(%)	Limit	Limit	Limit
1	Burrows Avenue	Asphalt/Concrete	75/160	NA	0										
2	Burrows Avenue	Asphalt/Concrete	60/150	NA	0	Clay	2.0	42.4	0.0	0.0	8.4	91.6	99	27	72
3	Burrows Avenue	Asphalt/Concrete	100/130	NA	0										
4	Burrows Avenue	Asphalt/Concrete	52/143	NA	0										
5	Burrows Avenue	Asphalt/Concrete	40/150	NA	0	Silt	1.2	23.4	0.0	4.4	70.9	24.7	20	16	4
6	Burrows Avenue	Asphalt/Concrete	25/245	NA	0										



Project Name: 2006 City of Winnipeg Streets Reconstruction Client: UMA Engineering Ltd. Site: Burrows Avenue, Westbound Curb Lane Date Drilled: January 16, 2006 Depth of Testhole: 2.0 m Logged by: Robert Brown

Testhole Location: 1029 Burrows Ave., in line with W side of front door, 1.2 m S of curb

Subsurface Profile							sting
Depth	Symbol	Description	0	Wa 20	ter (9	Conte %) 60	ent 80 100
0.0-		Ground Surface ASPHALT - 75 mm thick, condition good CONCRETE - 160 mm thick, fractured CLAY - black - moist, firm, intermediate plasticity, with silt below 0.6 m					
1.0-		SILT - tan, moist, soft, low plasticity					
- - 1.5- - - -		CLAY - brown, moist, firm, high plasticity, some silt - trace silt below 1.6 m					
2.0-		Frozen to a depth of 0.6 m below grade. End of testhole at 2.0 m below grade.					



Project Name: 2006 City of Winnipeg Streets Reconstruction Client: UMA Engineering Ltd. Site: Burrows Avenue, Westbound Curb Lane Date Drilled: January 16, 2006 Depth of Testhole: 2.0 m

Logged by: Robert Brown

Testhole Location: 1019 Burrows Ave., 3.0 m E of west building line, 1.4 m S of curb

Subsurface Profile				Laboratory Testing								
Depth (m)	Symbol	Description	PI 0	Mc 2	bist i	ure C	onte	nt (%) LL 100 125	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
0.0-		Ground Surface		,			, _					
-	<u>12.112872</u>	ASPHALT - 60 mm thick, good condition	$\left \right $	 								
_	*	CONCRETE		1		i I	i I I					
-		CLAY - black, and silt			ſ							
0.5-		SILT - tan - moist, soft, low plasticity below 0.6 m										
- - 1.0- - -												
- 1.5- - -		CLAY - brown, moist, stiff, high plasticity, some silt inclusions										
- 2.0-					,		 	_	0.0	0.0	8.4	91.6
-		Frozen to a depth of 0.6 m below grade. End of testhole at 2.0 m below grade.										



Project Name: 2006 City of Winnipeg Streets Reconstruction Client: UMA Engineering Ltd. Site: Burrows Avenue, Westbound Curb Lane Date Drilled: January 16, 2006 Depth of Testhole: 2.0 m Logged by: Robert Brown

Testhole Location: 1005 Burrows Ave., 3.3 m W of west building line, 1.1 m S of curb

Subsurface Profile						у Те	sting
Depth	Symbol	Description	0	Wa 20	1 ter C (% 40	Conte 60	ent 80 100
0.0		Ground Surface ASPHALT - 100 mm thick, condition good CONCRETE - 130 mm thick, fractured CLAY - black - moist, stiff, intermediate plasticity below 0.6 m - some silt below 0.5 m SILT - tan, moist, soft, low plasticity			•		
		CLAY - brown, moist, firm, high plasticity Frozen to a depth of 0.6 m below grade. End of testhole at 2.0 m below grade.					



Project Name: 2006 City of Winnipeg Streets Reconstruction Client: UMA Engineering Ltd. Site: Burrows Avenue, Westbound Curb Lane Date Drilled: January 16, 2006 Depth of Testhole: 2.0 m Logged by: Robert Brown

Testhole Location: 987 Burrows Ave., 3.3 m W of west building line, 1.1 m S of curb

		Labo	rator	y Te	sting		
Depth	Symbol	Description	0	Wa 20	ter C (% 40	onte 6) 60	nt 80 100
0.0-		Ground Surface ASPHALT - 52 mm thick, condition good CONCRETE - 143 mm thick, fractured CLAY - black - moist, firm, intermediate plasticity, with silt from 0.8 m to 1.4 m - trace silt below 1.4 m					
- 2.0		Frozen to a depth of 0.8 m below grade. End of testhole at 2.0 m below grade.					



Project Name: 2006 City of Winnipeg Streets Reconstruction Client: UMA Engineering Ltd.

Date Drilled: January 16, 2006

Depth of Testhole: 2.0 m

Site: Burrows Avenue, Westbound Curb Lane

Logged by: Robert Brown

Testhole Location: 1.0 m W of east building line of garage, 236 Battery St., 1.2 m S of curb

Subsurface Profile				Laboratory Testing									
Depth (m)	Symbol	Description	PI 0	Mois 25	ture C	onter	n t (%) LL 100 125	Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
0.0		Ground Surface ASPHALT - 40 mm thick, condition good CONCRETE - 150 mm thick, fractured CLAY - black - moist, firm, intermediate plasticity below 0.8 m SILT - tan, moist, soft, low plasticity											
		CLAY - brown, moist, firm, high plasticity Frozen to a depth of 0.8 m below grade. End of testhole at 2.0 m below grade.						0.0	4.4	70.9	24.7		



Project Name: 2006 City of Winnipeg Streets Reconstruction Client: UMA Engineering Ltd. Site: Burrows Avenue, Westbound Curb Lane

Date Drilled: January 16, 2006 Depth of Testhole: 2.0 m Logged by: Robert Brown

Testhole Location: 2.4 m W of east building line, 236 Battery St., 1.3 m S of curb

Subsurface Profile						у Те	sting
Depth	Symbol	Description	0	Wa 20	ter C (%	60	ent 80 100
0.0-	10 S 10 S 10 S 10 S 10 S 10 S 10 S 10 S	Ground Surface ASPHALT - 25 mm thick, frctured CONCRETE - 245 mm thick, rubble in top 50 mm CLAY - black, some silt below 0.5 m - brown, moist, stiff below 0.8 m - with silt below 0.9 m					
		SILT - tan, moist, soft, low plasticity CLAY - brown, moist, firm, high plasticity Frozen to a depth of 0.8 m below grade. End of testhole at 2.0 m below grade.					





