APPENDIX 'A' GEOTECHNICAL REPORT

APPENDIX 'A' - GEOTECHNICAL REPORT

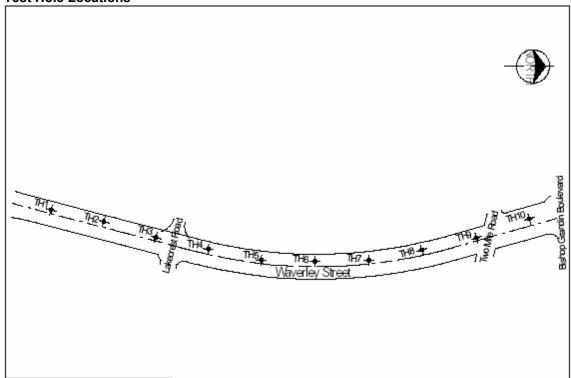
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The geotechnical report is provided to aid in the Contractor's evaluation of the existing pavement structure and/or soil conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations in pavement structure and/or soil 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 may not become evident until construction commences.

Geotechnical Report for Waverley Street Southbound

Test Hole Locations



Template Version: C420061130

Summary of Core Samples

		Pavement Su	rface	Pavement Str	ucture Material		Sample	Moisture		Partide St	ze Analysis		,	Atterbeng Lin	Tilts
Testrole ID	Testrole Location	Туре	Thickness (mm)	Туре	Thickness (mm)	Sample Description	Dapth (m)	Content (%)	Gravel (%)	Sand (%)	SIIt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
TH1	SB Waverley St., approx. Sts. 0+190, median lane, 2.1 m W of E curb	Asphalt/Concrete	32/213	Granular	65	N/A	N/A	-	-	,	,	-	-	-	
TH2	SB Waverley St., approx. Sta. 0+250, shoulder lane, 1.2 m E of W side of lane	Asphalt/Concrete	25/195	Granular	50	N/A	N/A	-	1	1	1	-	-	-	-
TH3	SB Waverley St., approx. Sta. 0+350, median lane, 1.7 m W of E side of curb	Asphalt/Concrete	27/213	Granular	70	N/A	N/A	-	-	1	,	-	-	-	-
TH4	SB Waverley St., approx. Sta. 0+450, shoulder lane, 1.6 m E of W side of lane	Asphalt/Concrete	25/205	Granular	80	Clayey Sit	1.2	22.0	0.0	6.8	65.2	28.0	28	17	11
TH5	SB Waverley St., approx. Sta. 0+550, median lane, 2.0 m W of E curb	Asphalt/Concrete	35/190	Granular	B5	N/A	N/A	-	1	1	1	-	-	-	-
THB	SB Waverley St., approx. Sta. 0+650, shoulder lane, 1.6 m E of W side of lane	Asphalt/Concrete	25/200	Granular	B5	N/A	N/A	-	-	1	,	-	-	-	-
TH7	SB Waverley St., approx. Sts. 0+750, median lane, 2.0 m W of E curb	Asphalt/Concrete	30/220	Granular	220	N/A	N/A	-	-	1	,	-	-	-	-
TH8	SB Waverley St., approx. Sta. 0+850, shoulder lane, 2.0 m E of W side of lane	Asphalt/Concrete	33/197	Granular	70	Clay	1.5	29.1	0.0	1.6	21.2	77.2	75	19	56
TH9	SB Waverley St., approx. Sta. 0+960, median lane, 3.9 m W of E curb	Asphalt/Concrete	30/205	Granular	50	N/A	N/A	-	-			-	-	-	-
TH10	SB Woverley St., approx. Sta. 1+050, acceleration lane, 1.6 m E of W side of lane	Asphalt/Concrete	55/170	Limestone	385	N/A	N/A	-	-	-		-	-	-	-

TESTHOLE TH1



Project Name: 2007 Regional and Residential Streets Program

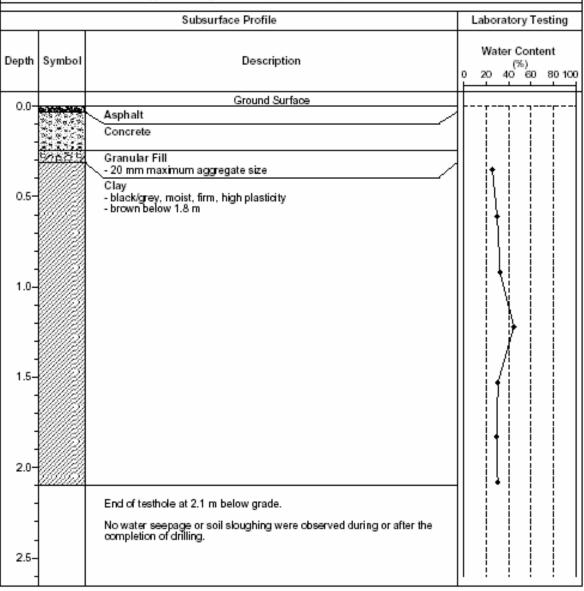
Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Date Drilled: January 17, 2007

Testhole Location: SB, approximately Sta. 0+150, median lane, 2.1 m W of E curb



TESTHOLE TH2

SATIONAL TESTING LABORATORIES LIMITED

Project Name: 2007 Regional and Residential Streets Program

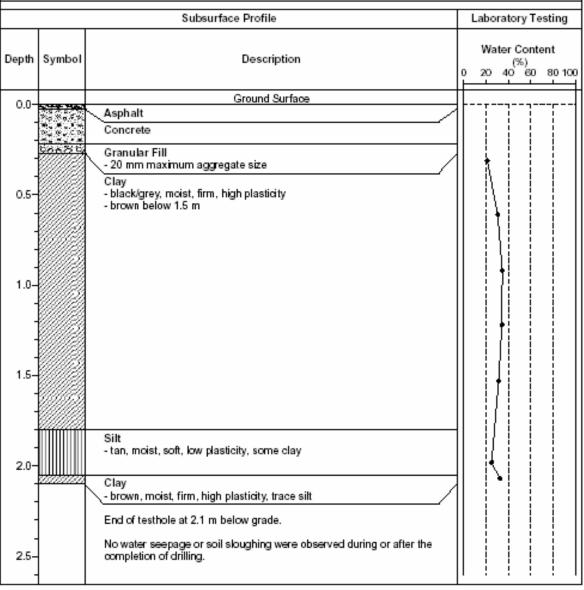
Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Date Drilled: January 17, 2007

Testhole Location: SB, approximately Sta. 0+250, shoulder lane, 1.2 m E of W side of lane



TESTHOLE TH3

THE NATIONAL TESTING LABORATORIES LIMITED

Date Drilled: January 17, 2007

Logged by: Kurtis Kulchyski

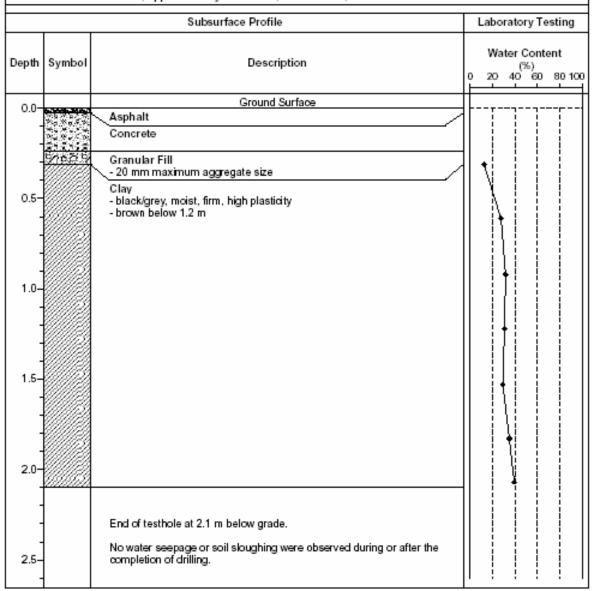
Depth of Testhole: 2.1 m

Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Testhole Location: SB, approximately Sta. 0+350, median lane, 1.7 m W of E side of curb



TESTHOLE TH4



Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Date Drilled: January 17, 2007

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive Logged by: Kurtis I Testhole Location: SB, approximately Sta. 0+450, shoulder lane, 1.6 m E of W side of lane

		Subsurface Profile	Laboratory Testing							
Depth (m)	Symbol	Description	Moisture Content (%) PL LL 0 25 50 75 100	Gravel (%)	Sand (%)	SH (%)	Clay (%)			
0.0-		Ground Surface								
0.0	######################################	Asphalt	1							
		Concrete								
	87528	Granular Fill								
Ι.	255	- 20 mm maximum aggregate size								
0.5-		Clay Fill - grey/brown, moist, firm, high plasticity, trace fine grained gravel, trace fine to coarse grained sand								
		Clay - black/grey, moist, firm, high plasticity								
1.0-										
1.5-		Clayey Silt - tan, moist, soft, low plasticity, some clay		0.0	6.8	65.2	28.0			
2.0-		Clay - brown, moist, firm, high plasticity, trace thin layers of silt								
2.5-		End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of drilling.								

TESTHOLE TH5

THE NATIONAL TESTING LABORATORIES LIMITED BY

Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Date Drilled: January 17, 2007

Testhole Location: SB, approximately Sta. 0+550, median lane, 2.0 m W of E curb

		Subsurface Profile		Labo	rator	y Te	sting
Depth	Symbol	Description	o.		ter C (% 40		ent 80 100
		Ground Surface	╫				\neg
0.0-	200 20 B 200	✓ Asphalt	11.	<u>-</u> -		7	[[
	De Co	Concrete					
	9000	Granular Fill - 20 mm maximum aggregate size	1	į			
0.5- - -		Clay Fill - grey/brown, moist, firm, high plasticity, trace fine grained gravel, trace fine to coarse grained sand, trace silt		•			
1.0- - -							
1.5-		Clay - black/grey, moist, firm, high plasticity, trace layers of silt between 1.7 to 2.0 m - brown below 2.0 m					
2.5-	-	End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of drilling.					

TESTHOLE TH6

NATIONAL JESTING LABORATORIES LIMITED

Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Date Drilled: January 17, 2007

Testhole Location: SB, approximately Sta. 0+650, shoulder lane, 1.6 m E of W side of lane

		Subsurface Profile	Laboratory Testing
Depth	Symbol	Description	Water Content (%) 0 20 40 60 80 100
		Ground Surface	+
0.0-	38 0 8 B	∖ Asphalt /	الــــــــــــــــــــــــــــــــــــ
	D. O. C.D.	Concrete	
-	960	Granular Fill - 20 mm maximum aggregate size	11 1
0.5-		Clay Fill - grey/brown, moist, firm, high plasticity, trace fine grained gravel, trace fine to coarse grained sand, trace silt	$\ \cdot\}\ \cdot\ $
1.0- -			
1.5-			
2.0-		Clay - brown, moist, firm, high plasticity - light brown below 2.0 m, firm to soft, intermediate plasticity, some silt	
		End of testhole at 2.1 m below grade.	
2.5-		No water seepage or soil sloughing were observed during or after the completion of drilling.	

TESTHOLE TH7

NATIONAL TESTING LABORATORIES LIMITED

Date Drilled: January 17, 2007

Logged by: Kurtis Kulchyski

Depth of Testhole: 2.1 m

Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Testhole Location: SB, approximately Sta. 0+750, median lane, 2.0 m W of E curb

		Subsurface Profile	Laboratory Testing
Depth	Symbol	Water Content (%) 0 20 40 60 80 100	
	\vdash	Ground Surface	+ +
0.0-	28 0 8 2 8	Asphalt	4
:		Concrete	
		Granular Fill - 20 mm maximum aggregate size]\
0.5- - -		Clay Fill - grey/brown, moist, firm, high plasticity, trace fine grained gravel, trace fine to coarse grained sand, trace silt	
1.0- - -		Clay - light brown, moist, firm, high plasticity, trace rootlets to 1.5 m - brown below 1.8 m	-
1.5- - -			
2.0-			
-		End of testhole at 2.1 m below grade.	
2.5-		No water seepage or soil sloughing were observed during or after the completion of drilling.	

TESTHOLE TH8

THE NATIONAL TESTING LABORATORIES LABORATORIES

Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Date Drilled: January 17, 2007

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive Logged by: Kurtis K Testhole Location: SB, approximately Sta. 0+850, shoulder lane, 2.0 m E of W side of lane

		Subsurface Profile	Laboratory Testing	\dashv
Depth (m)	Symbol	Description	Moisture Content (%) PL	clay (%)
0.0- - - 0.5- - 1.0- - - - - - - - - - - - - - - - - - -	The state of the s	Ground Surface Asphalt Concrete Granular Fill - 20 mm maximum aggregate size Clay Fill - grey, moist, firm, high plasticity, trace fine grained gravel, trace fine to coarse grained sand Clay - grey, moist, firm, high plasticity - light brown between 0.8 m to 1.1 m, intermediate plasticity, with silt - brown below 1.1 m, high plasticity, some silt End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of drilling.	0.0 1.6 21.2 77	7.2

TESTHOLE TH9

THE NATIONAL TESTING LABORATORIES LAMITED

Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Date Drilled: January 17, 2007 Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Testhole Location: SB, approximately Sta. 0+950, median lane, 3.9 m W of E curb

		Subsurface Profile	Laboratory Testing
Depth	Symbol	Description	Water Content (%) 0 20 40 60 80 100
0.0-		Ground Surface][]
0.0-	888988 888	Asphalt	7[-::-::-]
:	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Concrete	
-	62.007462	Granular Fill	/ •
-	255	- 20 mm maximum aggregate size	
0.5-		Clay Fill - grey, moist, firm, high plasticity, trace fine grained gravel, trace fine to coarse grained sand	
1.0-			
1.5-		Clay - grey, moist, firm, high plasticity - brown below 1.5 m, trace silt	
2.0-			
2.5-		End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of drilling.	

TESTHOLE TH10

SATIONAL JESTING LABORATORIES LIMITED

Date Drilled: January 17, 2007

Logged by: Kurtis Kulchyski

Depth of Testhole: 2.1 m

Project Name: 2007 Regional and Residential Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Testhole Location: SB, approximately Sta. 1+050, acceleration lane, 1.6 m E of W side of lane

		Subsurface Profile	Laboratory Testing
Depth	Symbol	Description	Water Content (%) 0 20 40 60 80 100
0.0-		Ground Surface	
0.0	38224 38124 12.53	Asphalt	1
]]	Parkern H. A. Ch Parkern Day	Concrete]
0.5-	2 0 3 0	Limestone Fill - 20 mm maximum aggregate size	
-		Clay Fill - grey/brown, moist, firm, high plasticity, trace fine grained gravel, trace fine to coarse grained sand	
1.0-			
1.5-		Clay - brown, moist, firm, high plasticity - light brown below 2.0 m, some silt	
2.0-		End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of drilling.	

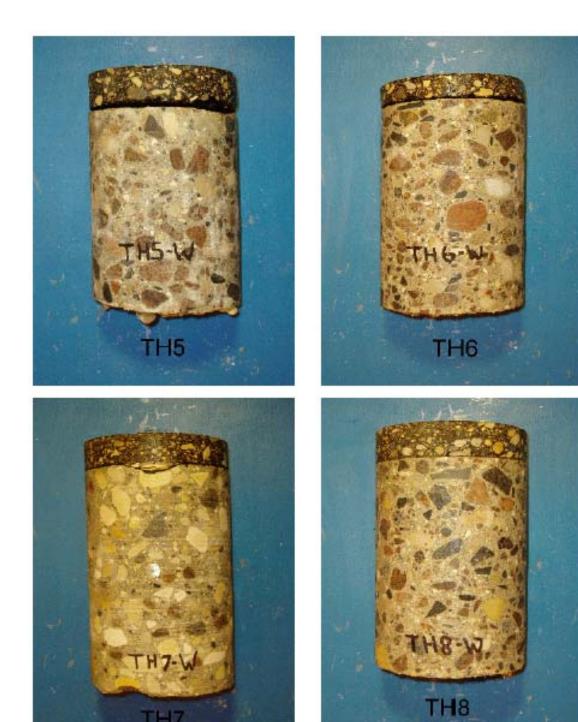
Pavement Core Photos



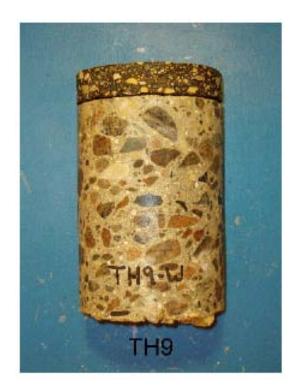








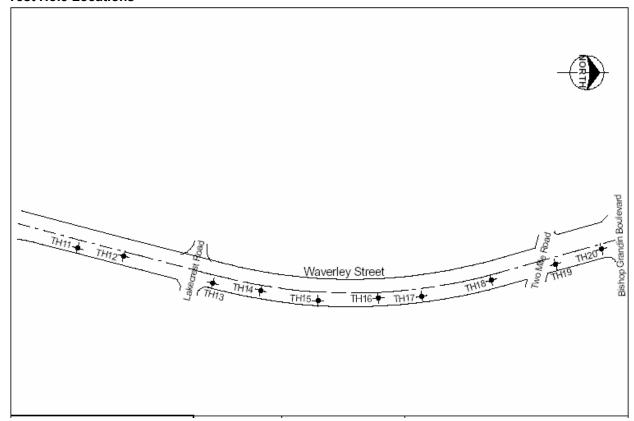
Template Version: C420061130





Geotechnical Report for Waverley Street Northbound

Test Hole Locations



Template Version: C420061130

Summary of Core Samples

		Pavement Surface		Pavement Structure Material		Sample	Moisture	Porticle Size Analysis				Atterberg Limits			
Cestrole ID	Testrole Location	Туре	Thickness (mm)	Type	Thickness (mm)	Sample Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	91t (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
TH11	NB Waverley St., approx. Sta. 0+200, shoulder lane, 1.6 m W of E side of lane	Asphalt/Concrete	44/204	Granular	125	NA	NA	,		,	-	-	-	-	-
TH12	NB Waverley St., approx. Sta. 0+295, median lane, 2.1 m E of W curb	Asphalt/Concrete	70/1B2	Granular	48	N/A	N/A	,	,	,	-	-	-	-	-
TH13	NB Waverley St., approx. Sta. 0+410, shoulder lane, 1.7 m W of E side of lane.	Asphalt/Concrete	52/198	Granular	50	Slify Clay	1.5	26.8	0.0	2.5	31.0	66.5	63	16	47
TH14	NB Waverley St., approx. Stz. 0+500, median lane, 2.1 m E of W curb	Asphalt/Concrete	66/195	Granular	96	SII	1.8	21.3	0.0	5.3	71.8	22.9	26	15	11
TH15	NB Waverley St., approx. Sta. 0+600, shoulder lane, 1.5 m W of E side of lane	Asphalt/Concrete	56/209	Granular/ Limestone	14 1/960	NA	N/A	,	,	,	-	-	-	-	-
TH16	NB Waverley St., approx. Stz. 0+700, median lane, 1.9 m E of W curb	Asphalt/Concrete	56/209	Granular	35	N/A	NA	,	,	1	-	-	-	-	-
TH17	NB Waverley St., approx. Sta. 0+795, shoulder lane, 1.5 m W of E side of lane	Asphalt/Concrete	5B/1B2	Granular	60	NA	N/A	1	,	1	-	-	-	-	-
TH18	NB Waverley St., approx. Stz. 0+900, median lane, 2.0 m E of W curb	Asphalt/Concrete	38/202	Granular	60	NA	N/A	1	,	1	-	-	-	-	-
TH19	NB Waverley St., approx. Sta. 1+000, east NB Iane, 4.9 m W of E shoulder	Asphalt/Concrete	75/185	Granular	50	N/A	N/A		,		-	-	-	-	-
TH20	NB Waverley St., approx. Sta. 1+080, east WB turning lane, 5.8 m E of W curb	Asphalt/Concrete	63/237	Granular	305	N/A	N/A	-	-	-	-	-	-	-	-

TESTHOLE TH11

Project Name: 2007 Regional Streets Program

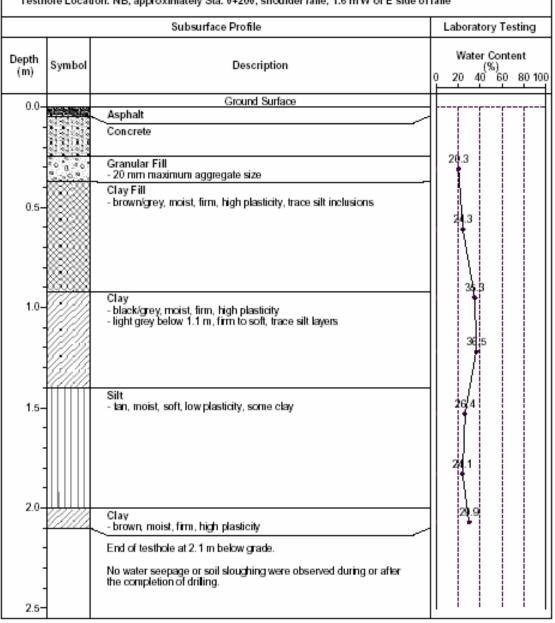
Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Date Drilled: February 8, 2007 Depth of Testhole: 2.1 m

Logged by: Kurtis Kulchyski

Testhole Location: NB, approximately Sta. 0+200, shoulder lane, 1.6 m W of E side of lane



Test Hole Log for TH12 TESTHOLE TH12 Project Name: 2007 Regional Streets Program Date Drilled: February 8, 2007 Client: Stantec Consulting Ltd. Depth of Testhole: 2.1 m Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive Logged by: Kurtis Kulchyski Testhole Location: NB, approximately Sta. 0+295, median lane, 2.1 m E of W curb Subsurface Profile Laboratory Testing Water Content Depth Symbol Description (%) 40 60 80 100 (m) Ground Surface Asphalt Concrete 13.₿ Granular Fill 20 mm maximum aggregate size - grey, moist, firm, high plasticity - light grey below 0.9 m, firm to soft, intermediate plasticity, trace silt 1.0 light brown/tan, moist, soft, low plasticity, some clay with clay layers below 1.8 m 20.2 1.5 2.0 brown, moist, firm, high plasticity

End of testhole at 2.1 m below grade.

the completion of drilling.

2.5

No water seepage or soil sloughing were observed during or after

2.5

Test Hole Log for TH13

TESTHOLE TH13

Project Name: 2007 Regional Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Date Drilled: February 8, 2007 Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Testhole Location: NB, approximately Sta 0+410, shoulder lane, 1.7 m W of E side of lane Subsurface Profile Laboratory Testing Gravel (%) Sand (%) Clay (%) Water Content Depth Silt (%) Symbol Description (m) 80 100 Ground Surface Asphalt Concrete 11.3 Granular Fill 20 mm maximum aggregate size Silty Clay black/grey, moist, firm to soft, high 0.5° plasticity - brown below 1.1 m, firm, with silt 1.0 1.5 0.02.5 31.0 66.5 2.0 End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of

TESTHOLE TH14

Project Name: 2007 Regional Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Testhole Location: NB, approximately Sta. 0+500, median lane, 2.1 m E of W curb

	NATIONAL
	HISTORY
-	AUCHATORES
	MANAGE.
	CALLEGE STREET

Date Drilled: February 8, 2007 Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

	Subsurface Profile	Laboratory Testing							
Depth (m) Symbol	Description	Water Content (%) 0 20 40 60 80 100	Gravel (%)	Sand (%)	Silt (%)	Clay (%)			
0.0	Ground Surface Asphalt Concrete Granular Fill - 20 mm maximum aggregate size Clay Fill - brown, moist, firm, high plasticity	9.7 31.6 30.0 33.8							
2.0-	Clay - brown, moist, firm, high plasticity Silt - tan, moist, soft, low plasticity, some clay End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of	29.8 2 /3 1 /1 23.7	0.0	5.3	71.8	229			

Date Drilled: February 8, 2007

Depth of Testhole: 2.1 m

Test Hole Log for TH15

TESTHOLE TH15

Project Name: 2007 Regional Streets Program

Client: Stantec Consulting Ltd. Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive Logged by: Kurtis Kulchyski Testhole Location: NB, approximately 0x600, shoulder lane, 1.6 m W of E side of lane.

		Subsurface Profile	Laboratory Testing
Depth (m)	Symbol	Description	Water Content (%) 0 20 40 60 80 10
		Ground Surface	
0.0-	263326	Asphalt	─ ┃├ṛṛ
		Concrete	
	8.8.18.8	0 1 578	— 14.6
•	40 g 40"	Granular Fill - 20 mm maximum aggregate size	t
0.5-	స్త్రీస్తోన్కిన . ది.కి స్త్రీస్తే స్త్రీస్తోన్న	Limestone Fill - red, maximum aggregate size could not be determined due to grinding of the auger	7/8
	2000 2000 2000 2000 2000 2000 2000 200		
	-C102-C1d		le i
1.0-	200, D		
	200 200 200 200		$ \parallel$ \parallel \parallel \parallel \parallel \parallel
		Clay - black/grey, moist, firm, high plasticity	32.7
1.5-			33.9
	-	Silt - tan, moist, soft, low plasticity, some clay	253
2.0-			286
	-	End of testhole at 2.1 m below grade.	
		No water seepage or soil sloughing were observed during or after the completion of drilling.	

TESTHOLE TH16

Project Name: 2007 Regional Streets Program

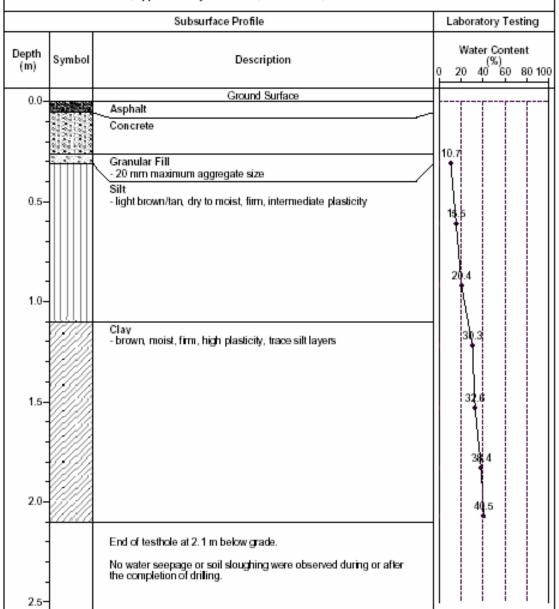
Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Testhole Location: NB, approximately Sta. 0+700, median lane, 1.9 m E of W curb



Date Drilled: February 8, 2007 Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski



TESTHOLE TH17

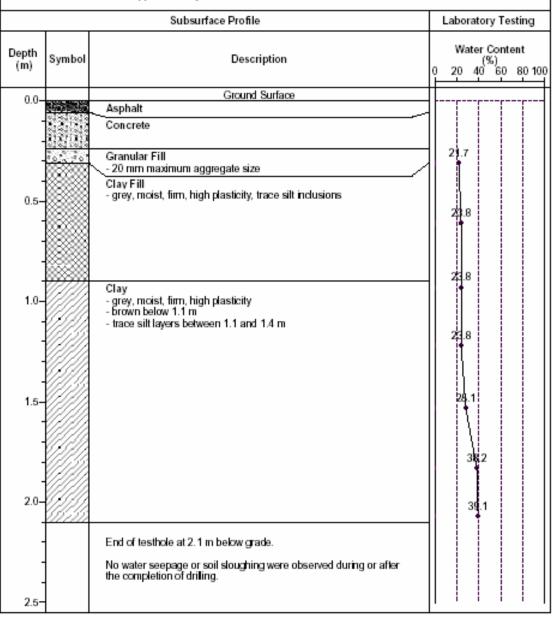
Project Name: 2007 Regional Streets Program

Client: Stantec Consulting Ltd. Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Date Drilled: February 8, 2007

Testhole Location: NB, approximately Sta 0+795, shoulder lane, 1.5 m W of E side of lane



2.5

Test Hole Log for TH18

TESTHOLE TH18

Project Name: 2007 Regional Streets Program

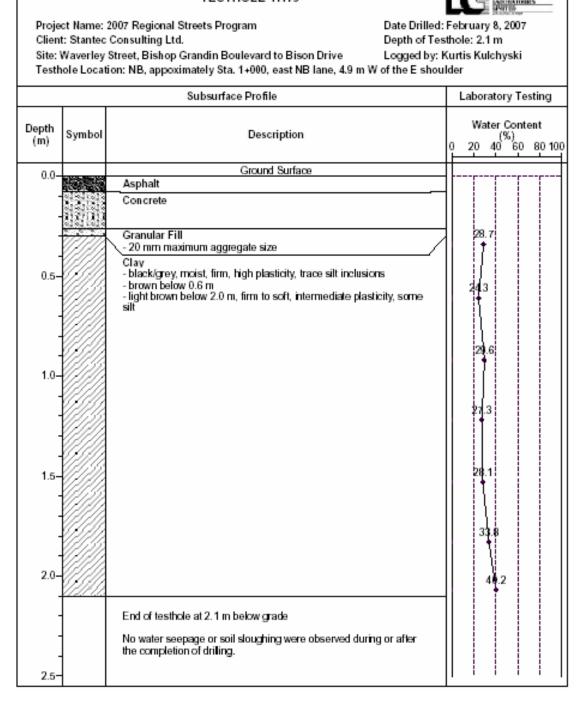
Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Date Drilled: February 8, 2007 Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Testhole Location: NB, approximately Sta 0+900, median lane, 2.0 m E of W curb Subsurface Profile Laboratory Testing Water Content Depth Symbol 20 40 60 80 100 Description (m) Ground Surface Asphalt Concrete Granular Fill 30. 20 mm maximum aggregate size Clay Fill - grey/brown, moist, firm, high plasticity 0.5 -- black/grey, moist, firm, high plasticity - brown below 1.2 m - trace silt layers between 1.2 and 1.8 m 1.0-1.5 2.0-End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of drilling.

TESTHOLE TH19



TESTHOLE TH20

Project Name: 2007 Regional Streets Program

Client: Stantec Consulting Ltd.

Site: Waverley Street, Bishop Grandin Boulevard to Bison Drive

Testhole Location: NB, approximately Sta. 1+080, east WB turning lane, 5.6 m E of W curb

Date Drilled: February 8, 2007 Depth of Testhole: 2.1 m Logged by: Kurtis Kulchyski

Subsurface Profile			Laboratory Testing	
Depth (m)	Symbol	Description	Water Content (%) 0 20 40 60 80 10	
0.0-		Ground Surface		
0.0-	美国教育	Asphalt	_][[[
		Concrete		
0.5-	10 g 10 20 g 10	Granular Fill - 20 mm maximum aggregate size to 0.45 m depth - larger aggregate size was encountered below 0.45 m; maximum aggregate size could not be determined due to the grinding of the auger	9.3	
		Clay - brown, moist, firm, high plasticity, some silt - light brown below 2.0 m, high to intermediate plasticity	28.2	
1.0-			28.9	
1.5-			30.2	
2.0-			31/2	
		End of testhole at 2.1 m below grade. No water seepage or soil sloughing were observed during or after the completion of drilling.		
2.5-	1			

Pavement Core Photos









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