# APPENDIX 'A' GEOTECHNICAL REPORT

# APPENDIX 'A' - GEOTECHNICAL REPORT

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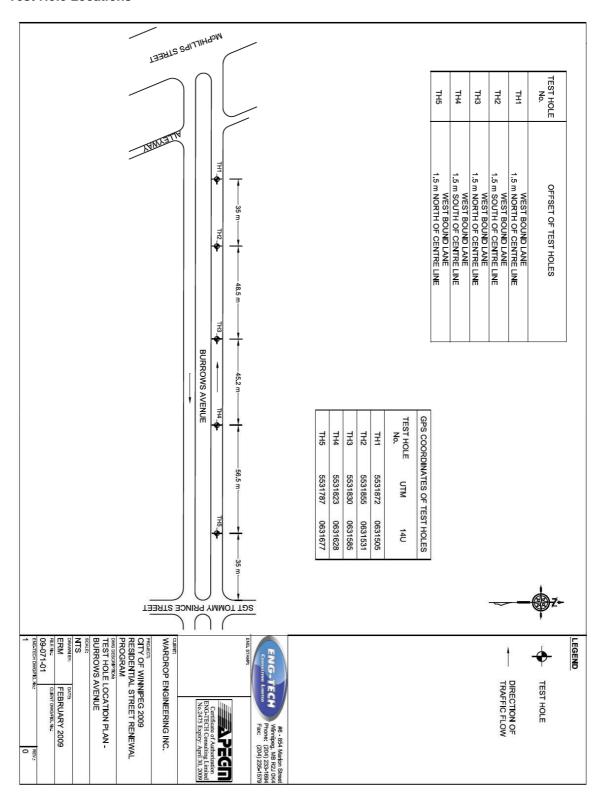
## **GEOTECHNICAL REPORT FOR BURROWS AVENUE**

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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

# **Geotechnical Report for Burrows Avenue**

# **Test Hole Locations**



# **Summary of Pavment Structure for Burrows Avenue**

#### Table 1 Summary of Pavement Structure

File No.: 09-071-01

#### Wardrop Engineering Inc. City of Winnipeg 2009 Residential Street Renewal Program

Page 1 of 3

				,											
Test Hole	To the letter of the	Pavemen	t Surface	Pavement Stru	cture Material	Subgrade	Sample	Moisture	Ну	rdromete	Analysis	5	A	Atterberg Lin	nits
No.	Testhole Location	Type	Thickness (mm)	Type	Thickness (mm)	Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
						Clay	0.3	25.6							
						(Fill)	0.76	31.9							
							1.00	26.0							
1	Burrows Avenue	Asphalt	95			Silt	1.52	23.9							
		Concrete	175				1.83	43.0							
						Clay	2.13	45.1							
							0.5	29.5							
						Clay (Fill)	0.76	26.4							
							1.00	27.7							
2	Burrows Avenue	Asphalt Concrete	85 175				1.52	29.9							
		301101010				Clavi	1.83	50.5							
						Clay	2.13	50.5							

P:\2009\Projects\071(Wardrop)\01(2009 Residential Streets)\summary tables\Table 1 - Pavement Summary\_Burrows\_Ave(final).rtf

#### Table 1 Summary of Pavement Structure

File No.: 09-071-01

#### Wardrop Engineering Inc. City of Winnipeg 2009 Residential Street Renewal Program

Page 2 of 3

Test		Pavemer	nt Surface	Pavement Stru	cture Material	Cohanada	Comple	Moisture	Ну	rdrometer	Analysis	3	,	Atterberg Li	mits
Hole No.	Testhole Location	Туре	Thickness (mm)	Туре	Thickness (mm)	Subgrade Description	Sample Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
							0.3	37.9							
						Clay (Fill)	0.61	28.9	0.0	0.0	23.5	76.5	71.6	28.9	42.7
							0.76	28.2							
		Asphalt	125			Silt	1.00	24.5							
3	Burrows Avenue	Concrete	165			SIII	1.52	23.7							
							1.83	30.0							
						Clay	2.13	41.5							
							0.3	27.5							
						Clayey Silt (Fill)	0.61	32.7							
							0.76	28.9	0.0	5.2	67.4	27.4	31.4	18.3	13.1
4	Burrows Avenue	Asphalt	95			Oleve	1.00	40.0							
4	Burrows Avenue	Concrete	150			Clay	1.52	39.7							
						Silt	1.83	24.2							
						Clay	2.13	43.9							
						Clay									

# **Summary of Pavement Structure for Burrows Avenue**

#### Table 1 Summary of Pavement Structure

File No.: 09-071-01

# Wardrop Engineering Inc. City of Winnipeg 2009 Residential Street Renewal Program

Page 3 of 3

Test		Pavemen	t Surface	Pavement Stru	cture Material	0.1	0	Materia	Hy	/dromete	r Analysis	3	,	Atterberg Lir	nits
Hole No.	Testhole Location	Type	Thickness (mm)	Type	Thickness (mm)	Subgrade Description	Sample Depth (m)	Moisture Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
						Clay	0.3	43.9							
						(Fill)	0.61	36.5							
						Silt	0.76	24.3							
5	Burrows Avenue	Asphalt	90			Oilt	1.00	21.9							
5	Burrows Avenue	Concrete	150				1.52	43.0							
						Clay	1.83	48.4							
						Clay	2.13	53.7							
													·		
													·	·	

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# Particle Size Analysis of TH3 for Burrows Avenue



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

PARTICLE SIZE ANALYSIS REPORT

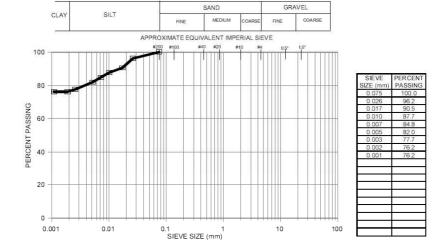
Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8

09-071-01 File No.:

ATTENTION: Naveed Haider, B.S.C.E.

PROJECT: CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM

Test Hole No. TH3 Sample No. 0.61m Depth: Sampled By: ENG-TECH Burrows Avenue Type of Sample: Grab Source: Date Sampled: Jan 28/09 Feb 2/09 Date Received: Jan 29/09 Date Tested:



Percent of: GRA Sample Description: GRAVEL (0.0%), SAND (0.0%), SILT (23.5%) and CLAY (76.5%)

ENG-TECH Consulting Limited

COMMENTS:

# Particle Size Analysis of TH4 for Burrows Avenue



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

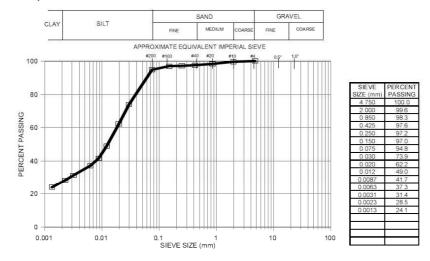
PARTICLE SIZE ANALYSIS REPORT

Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8 File No.: 09-071-01 Ref. No.: 9-71-1-4

ATTENTION: Naveed Haider, B.S.C.E.

PROJECT: CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM

Test Hole No.	TH4	Sample No.	S3	Depth:	0.762m
Sampled By:	ENG-TECH	Type of Sample:	Grab	Source:	Burrows Avenue
Date Sampled:	Jan 28/09	Date Received:	Jan 29/09	Date Tested:	Feb 2/09



Percent of: GRAVEL (0.0%), SAND (5.2%), SILT (67.4%) and CLAY (27.4%) Sample Description:

COMMENTS:

ENG-TECH Consulting Limited

# **Pavement Core Photos for Burrows Avenue**



Burrows Avenue McPhillips Street to Sgt Tommy Prince Street



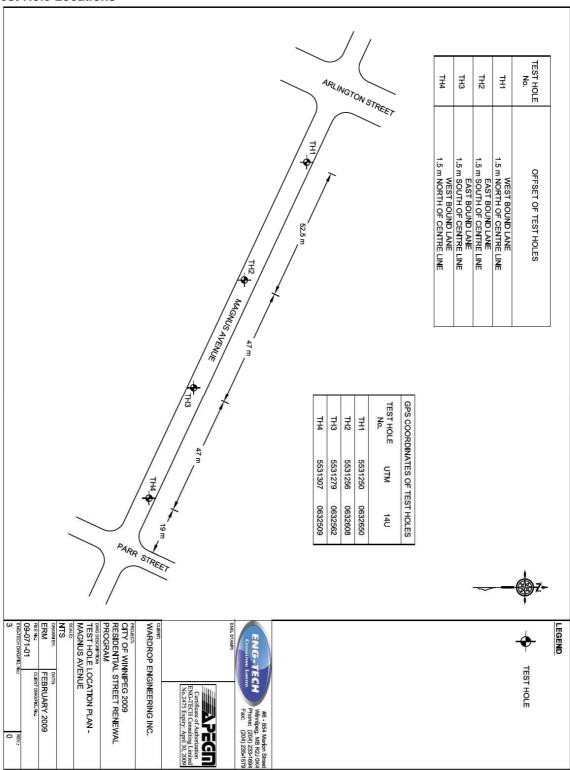


Burrows Avenue McPhillips Street to Sgt Tommy Prince Street



# **Geotechnical Report for Magnus Avenue**

# **Test Hole Locations**



# **Summary of Pavement Structure for Magnus Avenue**

#### Table 3 Summary of Pavement Structure

Wardrop Engineering Inc.
City of Winnipeg 2009 Residential Street Renewal Program

Page 1 of 2

File No.: 09-071-01

				, , , , , , , , , , , , , , , , , , ,	p-9				,					9	0 . 0
Test Hole	To the letter of the	Pavemen	t Surface	Pavement Stru	cture Material	Subgrade	Sample	Moisture	Ну	dromete	Analysis	5	,	Atterberg Lin	nits
No.	Testhole Location	Type	Thickness (mm)	Туре	Thickness (mm)	Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
							0.3	27.5							
						Silty Clay (Fill)	0.61	26.9							
						(Fill)	0.76	21.5							
1	Magnus Avenue	Asphalt	35				0.91	22.7	0.0	4.4	49.0	46.6	39.7	18.5	21.2
1	Magnus Avenue	Concrete	130				1.52	35.4							
						Clay	1.83	37.5							
						(Fill)	2.13	47.1							
							0.3	36.5							
							0.61	25.5							
						Silty Clay (Fill)	0.76	28.1							
		Asphalt	40				0.91	26.8							
2	Magnus Avenue	Concrete	145				1.00	27.6							
		00000					1.52	34.7						·	
						Clay (Fill)	1.83	45.3							
						(Fill)	2.13	44.2							

P:\2009\Projects\071(Wardrop)\01(2009 Residential Streets)\summary tables\Table 3 - Pavement Summary\_Magnus\_Ave(final).rtf

# Table 3 Summary of Pavement Structure

Wardrop Engineering Inc. City of Winnipeg 2009 Residential Street Renewal Program

Page 2 of 2

File No.: 09-071-01

Test Hole	Testhole Location	Pavemen	t Surface	Pavement Stru	cture Material	Subgrade	Sample	Moisture	Ну	rdromete	r Analysi:	5	,	Atterberg Lir	nits
No.	Testhole Location	Type	Thickness (mm)	Type	Thickness (mm)	Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
						Silty Clay	0.3	27.8							
						(Fill)	0.91	31.0							
							1.00	39.3							
		Asphalt	30				1.22	38.5							
3	Magnus Avenue	Concrete	165				1.52	35.8							
						Clay	1.83	33.6							
							2.13	37.7							
						Silty Clay (Fill)	0.3	28.1							
							0.61	30.2	0.0	8.3	38.8	52.9	53.0	23.7	29.3
							0.91	30.8							
4		Asphalt	40			Silty Clay	1.22	31.4							
4	Magnus Avenue	Concrete	180				1.52	29.1							
							1.83	24.6							
						Clavi	2.13	40.1							
						Clay									

# Particle Size Analysis of TH1 for Magnus Avenue



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

PARTICLE SIZE ANALYSIS REPORT

Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8

09-071-01 File No.: Ref. No.:

ATTENTION: Naveed Haider, B.S.C.E.

PROJECT: CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM Depth: 0.91m Test Hole No. TH1 Sample No. Sampled By: ENG-TECH Type of Sample: Grab Magnus Avenue Source: Date Sampled: Jan 28/09 Feb 2/09 Date Received: Jan 29/09 Date Tested: MEDIUM APPROXIMATE EQUIVALENT IMPERIAL SIEVE 100 80 PERCENT PASSING 60 40 20

Percent of: GRA Sample Description: GRAVEL (0.0%), SAND (4.4%), SILT (49.0%) and CLAY (46.6%)

0.1 1 SIEVE SIZE (mm)

COMMENTS:

**ENG-TECH Consulting Limited** per M.K. Landing L

# Particle Size Analysis of TH4 for Magnus Avenue



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

PARTICLE SIZE ANALYSIS REPORT

Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8 File No.: 09-071-01 Ref. No.: 9-71-1-1

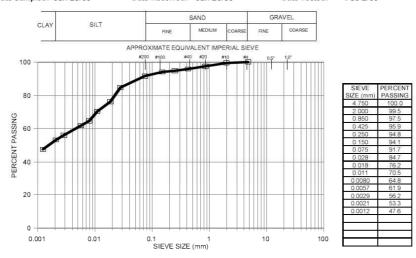
ATTENTION: Naveed Haider, B.S.C.E.

PROJECT: CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM

 Test Hole No.
 TH4
 Sample No.
 S2
 Depth:
 0.61m

 Sampled By:
 ENG-TECH
 Type of Sample:
 Grab
 Source:
 Magnus Avenue

 Date Sampled:
 Jan 28/09
 Date Received:
 Jan 29/09
 Date Tested:
 Feb 2/09



Percent of: GRAVEL (0.0%), SAND (8.3%), SILT (38.8%) and CLAY (52.9%) Sample Description:

COMMENTS:

ENG-TECH Consulting Limited

# **Pavement Core Photos for Magnus Avenue**

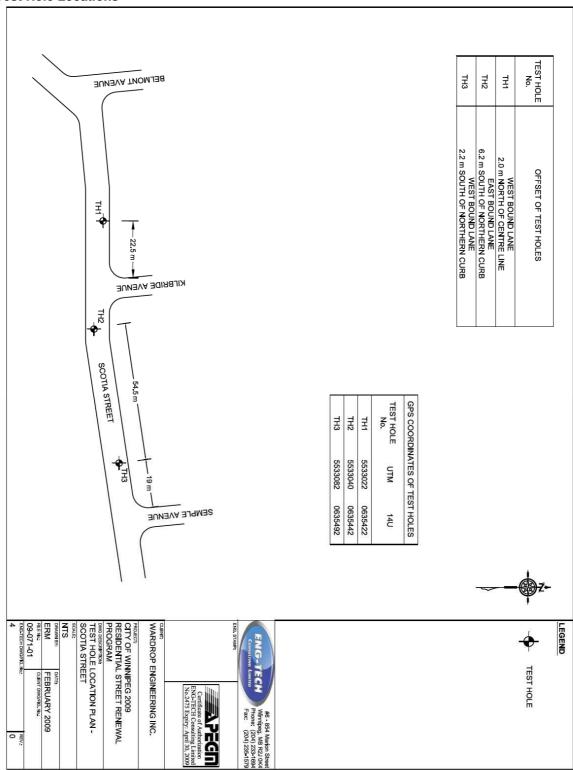


Magnus Avenue Arlington Street to Parr Street



# **Geotechnical Report for Scotia Street**

# **Test Hole Locations**



# **Summary of Pavement Structure for Scotia Street**

#### Table 4 Summary of Pavement Structure

#### Wardrop Engineering Inc. City of Winnipeg 2009 Residential Street Renewal Program

Page 1 of 2

File No.: 09-071-01

Test Hole	Testhole Location	Pavemen	t Surface	Pavement Stru	cture Material	Subgrade	Sample	Moisture	Ну	rdrometer	r Analysis	;	A	Atterberg Li	mits
No.	Testriole Location	Type	Thickness (mm)	Туре	Thickness (mm)	Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
						Silty Clay	0.3	19.3							
						(Fill)	0.61	32.0							
							0.76	32.2							
1	Scotia Street	Asphalt	95			Clay	1.00	32.1							
		Concrete					1.52	31.4							
							1.83	25.1							
						Silt	2.13	23.5							
						Silty Clay (Fill)	0.61	17.4	3.4	25.2	33.4	38.0	42.0	20.0	22.0
							0.76	30.1							
						Clay	1.00	30.2							
2	Scotia Street	Asphalt Concrete	70	Granular Fill (20 mm)	380		1.52	30.9							
							1.83	23.0							
						Silt	2.13	22.5							

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# Table 4 Summary of Pavement Structure

#### Wardrop Engineering Inc. City of Winnipeg 2009 Residential Street Renewal Program

Page 2 of 2

File No.: 09-071-01

Test	To the letter of the	Pavemen	t Surface	Pavement Stru	cture Material	Subgrade	Sample	Moisture	Hy	dromete	r Analysis	3	,	Atterberg Lir	nits
Hole No.	Testhole Location	Type	Thickness (mm)	Туре	Thickness (mm)	Description	Depth (m)	Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index
						Silty Clay (Fill)	0.76	28.9							
						Clay	1.00	30.4	0.1	0.1	25.6	74.2	72.9	32.6	40.3
3	Scotia Street	Asphalt	75	Granular Fill	380		1.52	27.6							
Ü	oodia oli oo	Concrete		(20 mm)	555		1.83	23.3							
						Silt	2.13	24.4							

# Particle Size Analysis of TH2 for Scotia Street



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

PARTICLE SIZE ANALYSIS REPORT

Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8 File No.: 09-071-01 Ref. No.: 9-71-1-7

ATTENTION: Naveed Haider, B.S.C.E.

## PROJECT: CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM

 Test Hole No.
 TH2
 Sample No.
 S3
 Depth:
 0.61m

 Sampled By:
 ENG-TECH
 Type of Sample:
 Grab
 Source:
 Scotia Street

Date Sampled: Jan 29/09 Date Received: Jan 30/09 Date Tested: Feb 3/09

251000	2025		SAND		GR	AVEL
CLAY	SILT	FINE	MEDIUM	COARSE	FINE	COARSE

SIEVE	PERCENT
SIZE (mm)	PASSING
19.000	100.0
12.500	98.0
9.500	97.4
4.750	96.6
2.000	93.5
0.850	87.7
0.425	82.0
0.250	78.3
0.150	75.1
0.075	71.4
0.0279	66.7
0.0184	61.0
0.0111	54.1
0.0080	49.5
0.0058	46.1
0.0029	40.4
0.0021	38.6
0.0013	34.0

Percent of: GRAVEL (3.4%), SAND (25.2%), SILT (33.4%) and CLAY (38.0%) Sample Description:

COMMENTS:

ENG-TECH Consulting Limited

# Particle Size Analysis of TH3 for Scotia Street



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

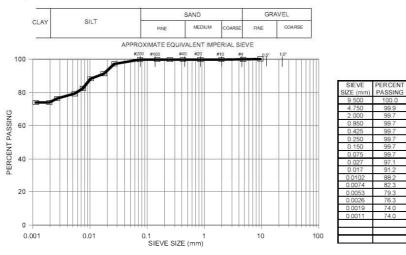
PARTICLE SIZE ANALYSIS REPORT

Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8 **File No.:** 09-071-01 **Ref. No.:** 9-71-1-8

ATTENTION: Naveed Haider, B.S.C.E.

PROJECT: CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM

Test Hole No.	TH3	Sample No.	S3	Depth:	1.0m
Sampled By:	ENG-TECH	Type of Sample:	Grab	Source:	Scotia Street
Date Sampled:	Jan 29/09	Date Received:	Jan 30/09	Date Tested:	Feb 3/09



Percent of: GRAVEL (0.1%), SAND (0.1%), SILT (25.6%) and CLAY (74.2%) Sample Description:

COMMENTS:

ENG-TECH Consulting Limited

# **Pavement Core Photos for Scotia Street**

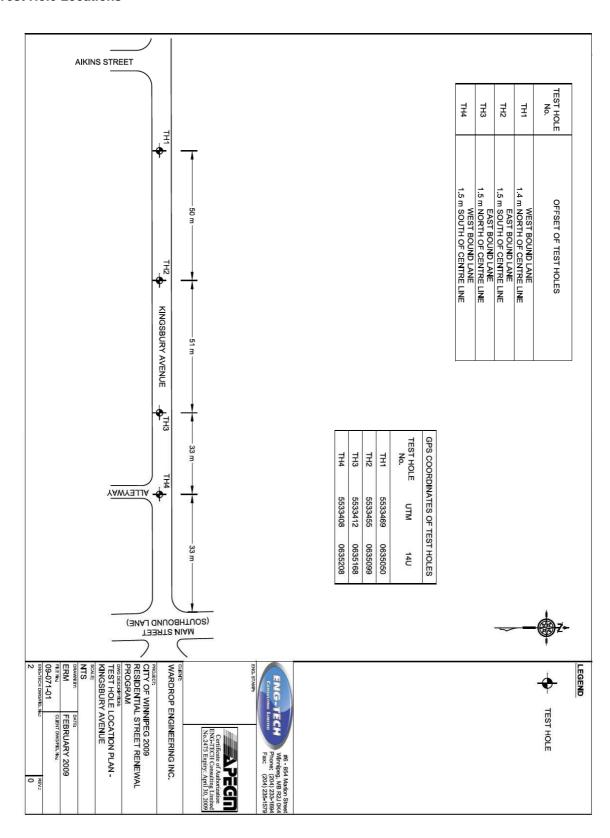


Scotia Street Belmont Avenue to Semple Avenue



# **Geotechnical Report for Kingsbury Avenue**

# **Test Hole Locations**



File No.: 09-071-01

Page 1 of 2

Template Version: C420081212 - RW

# **Summary of Pavement Structure for Kingsbury Avenue**

#### Table 2 Summary of Pavement Structure

ement Structure

	Wardrop Engineering Inc.
City of Winnipea	2009 Residential Street Renewal Program

		D	. 0	D	-t <b>3.5</b> -t1-1								г .		- 14 -				
Test Hole Testhole Location	Pavement Surface		Pavement Structure Material		Subgrade Description	Sample Depth (m)	Moisture Content (%)	Hydrometer Analysis				Atterberg Limits							
No.		Type	Thickness (mm)	Type	Thickness (mm)	Description	Deptil (III)	COINDIN (76)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index				
						Silty Clay (Fill)	0.50	19.5	2.6	37.4	34.7	25.3	37.1	18.4	18.7				
							0.76	30.3											
1 Kingsbury Avenue						Clay	1.00	32.7											
	Asphalt 60 Concrete	Granular Fill (20 mm)	375		1.52	32.2													
					1.83	24.4													
					Silt	2.13	22.8												
		Asphalt 93 Granular Fill					076	34.8											
			407					Clay	1.00	28.8									
2	Kingsbury Avenue			407	1.52	31.3													
	Kingabu y Avellue	Concrete			407		1.83	24.4											
										Silt	2.13	24.1							18.7

P:\2009\Projects\071(Wardrop)\01(2009 Residential Streets)\summary tables\Table 2 - Pavement Summary\_Kingsbury\_Ave(final).rt

#### Table 2 Summary of Pavement Structure

## Wardrop Engineering Inc. City of Winnipeg 2009 Residential Street Renewal Program

Page 2 of 2

File No.: 09-071-01

Test		Pavement Surface		Pavement Structure Material		Subgrade	Sample	Moisture	Hydrometer Analysis				Atterberg Limits						
Hole No.	Testhole Location	Type	Thickness (mm)	Type	Thickness (mm)	Description	Depth (m) Content (%)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid Limit	Plastic Limit	Plasticity Index					
						Silty Clay (Fill)	0.5	30.3											
							0.76	36.4											
						Clay	1.00	40.6	1.5	0.0	28.2	70.3	81.0	37.1	43.9				
3	3 Kingsbury Avenue		Granular Fill (20 mm)	225		1.52	34.2												
		, ,		Silt	1.83	22.7													
					2.13	23.5													
						Silty Clay (Fill)	0.5	26.2											
									0.76	27.2									
		Asphalt	70	Granular Fill						Clay	1.00	35.7							
4	Kingsbury Avenue		380	380		1.52	38.7												
					-						1.83	24.3							
						Silt	2.13	24.4											

P:\2009\Projects\071(Wardrop)\01(2009 Residential Streets)\summary tables\Table 2 - Pavement Summary\_Kingsbury\_Ave(final).rtt

# Particle Size Analysis of TH1 for Kingsbury Avenue



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

PARTICLE SIZE ANALYSIS REPORT

Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8 File No.: 09-071-01 Ref. No.: 9-71-1-5

ATTENTION: Naveed Haider, B.S.C.E.

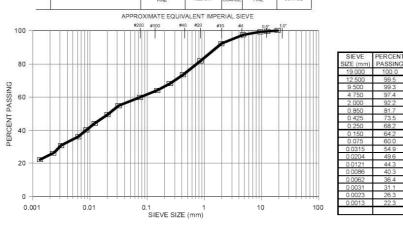
 PROJECT:
 CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM

 Test Hole No.
 Th1
 Sample No.
 S2
 Depth:
 0.5m

 Sampled By:
 ENG-TECH
 Type of Sample:
 Grab
 Source:
 Kingsbury Avenue

 Date Sampled:
 Jan 29/09
 Date Received:
 Jan 30/09
 Date Tested:
 Feb 3/09

CLAY SILT SAND GRAVEL
FINE MEDIJM COARSE FINE COARSE



Percent of: GRAVEL (2.6%), SAND (37.4%), SILT (34.7%) and CLAY (25.3%) Sample Description:

COMMENTS:

ENG-TECH Consulting Limited

1 St. K. Landbook

# Particle Size Analysis of TH3 for Kingsbury Avenue



#6 - 854 Marion Street Winnipeg, Manitoba R2J 0K4 eng\_tech@mts.net www.eng-tech.ca

PARTICLE SIZE ANALYSIS REPORT

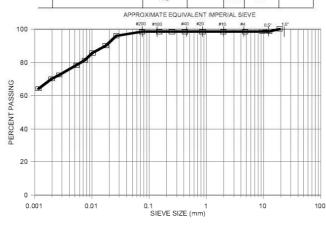
Wardrop Engineering Inc. 400-386 Broadway Winnipeg, Manitoba R3C 4M8 **File No.:** 09-071-01 **Ref. No.:** 9-71-1-6

ATTENTION: Naveed Haider, B.S.C.E.

PROJECT: CITY OF WINNIPEG 2009 RESIDENTIAL STREETS RENEWAL PROGRAM

Test Hole No.	TH3	Sample No.	S3	Depth:	1.0m
Sampled By:	ENG-TECH	Type of Sample:	Grab	Source:	Kingsbury Avenue
Date Sampled:	Jan 29/09	Date Received:	Jan 30/09	Date Tested:	Feb 3/09





SIEVE	PERCENT
SIZE (mm)	PASSING
19.000	100.0
12.500	98.6
9.500	98.6
4.750	98.5
2.000	98.5
0.850	98.5
0.425	98.5
0.250	98.5
0.150	98.5
0.075	98.5
0.0265	96.0
0.0174	90.1
0.0102	85.7
0.0074	81.3
0.0053	78.4
0.0027	72.5
0.0020	70.2
0.0012	64.3

Percent of: GRAVEL (1.5%), SAND (0.0%), SILT (28.2%) and CLAY (70.3%) Sample Description:

COMMENTS:

ENG-TECH Consulting Limited

# **Pavement Core Photos for Kingsbury Avenue**



Kingsbury Avenue Main Street to Aikins Street

