

**CLIENT** CITY OF WINNIPEG  
**PROJECT** OUTFALL MAINTENANCE PROGRAM  
**SITE** Dowker Outfall  
**LOCATION** 20 m from edge of water  
**DRILLING METHOD** Hand Auger

**JOB NO.** 05-107-11  
**GROUND ELEV.**  
**TOP OF PIPE ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 7-Oct-05  
**UTM (NAD83)** N 5,522,638  
 E 633,830

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	TYPE	SAMPLE NUMBER	Cu from Uncon. Comp. Test (kPa) ◇			
						PL	MC	LL	% - (kPa)
			<b>SILT SEDIMENT</b> - Mottled dark grey and dark brown, with clay, trace leaves.						
			<b>CLAY (CH)</b> - Dark brown, moist, firm, high plasticity, trace gravel (3/4" down), trace sand.						
	1		- Trace organic matter below 1.07 m.		1				
	2		<b>CLAY (CI-CH)</b> - Dark grey, moist, soft, intermediate to high plasticity, trace sand.		2				
	2.51		<b>END OF HOLE AT 2.51 m</b>		3				
	3		Notes: 1. Test hole walls squeezing in at 1.98 m. 2. Water sample taken from manhole: pH = 7.6 pH units E.C. = 415 uS/cm Temp. = 7.3 Celcius						
	4								
	5								
	6								

SAMPLE TYPE Auger Grab

CONTRACTOR  
**KGS Group**

INSPECTOR  
**J. CHING**

APPROVED \_\_\_\_\_ DATE 6/12/05

**CLIENT** CITY OF WINNIPEG  
**PROJECT** OUTFALL MAINTENANCE PROGRAM  
**SITE** Dowker Outfall  
**LOCATION** Near manhole  
**DRILLING METHOD** Hand Auger

**JOB NO.** 05-107-11  
**GROUND ELEV.**  
**TOP OF PIPE ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 7-Oct-05  
**UTM (NAD83)** N 5,522,628  
 E 633,803

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	TYPE	SAMPLE NUMBER	Cu from Uncon. Comp. Test (kPa) ◇			
						PL	MC	LL	% - (kPa)
			<b>TOPSOIL</b> - Black, moist, friable, trace fine grained rounded gravel (well graded), trace pockets of sand, trace rootlets.						
			<b>CLAY (CH)</b> - Brown, moist, firm, high plasticity, friable, trace oxidation, trace organic matter.						
	1								
	2		- Trace silt inclusions below 2.44 m.		1				
	3		- Trace sulphate nodules, some oxidation below 2.74 m.		2				
					3				
					4				
			<b>AUGER REFUSAL AT 3.00 m</b>						
			Notes: 1. Hit 900 mm corrugated metal pipe at 3.00 m.						
	4								
	5								
	6								

SAMPLE TYPE Auger Grab

CONTRACTOR  
**KGS Group**

INSPECTOR  
**J. CHING**

APPROVED \_\_\_\_\_ DATE 6/12/05

**CLIENT** CITY OF WINNIPEG  
**PROJECT** OUTFALL MAINTENANCE PROGRAM  
**SITE** Kennedy Outfall  
**LOCATION**  
**DRILLING METHOD** 125 mm ø Solid Stem Auger, Bobcat Mounted Drill Rig

**JOB NO.** 05-107-11  
 GROUND ELEV.  
 TOP OF PIPE ELEV.  
 WATER ELEV.  
**DATE DRILLED** 12-Oct-05  
 UTM (NAD83) N  
 E

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	TYPE	SAMPLE NUMBER	Cu from Uncon. Comp. Test (kPa) ◇			
						PL	MC	LL	
			<b>TOPSOIL</b> - Dry, loose, non-plastic, trace rootlets, trace organic matter.						
	1		- Very silty below 1.22 m.		1				
	2		<b>SILTY CLAY (CI-CH)</b> - Dark brown, moist, intermediate to high plasticity, stratified structure, trace silt inclusions.		2				
	3		<b>SILTY CLAY (CI)</b> - Brown, moist, soft, low to intermediate plasticity, friable.		3				
	4				4				
	5		<b>END OF HOLE AT 4.27 m</b>		5				
	6		Notes: 1. Test hole backfilled with auger cuttings to ground surface.						

SAMPLE TYPE Auger Grab

CONTRACTOR **Active Drilling & Piling** INSPECTOR **J. CHING**

APPROVED \_\_\_\_\_ DATE 6/12/05

**CLIENT** CITY OF WINNIPEG  
**PROJECT** OUTFALL MAINTENANCE PROGRAM  
**SITE** Hargrave Outfall  
**LOCATION**  
**DRILLING METHOD** 125 mm ø Solid Stem Auger, Bobcat Mounted Drill Rig

**JOB NO.** 05-107-11  
 GROUND ELEV.  
 TOP OF PIPE ELEV.  
 WATER ELEV.  
**DATE DRILLED** 12-Oct-05  
 UTM (NAD83) N  
 E

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	TYPE	SAMPLE NUMBER	Cu from Uncon. Comp. Test (kPa) ◇			
						PL	MC	LL	% - (kPa)
			<b>CLAY FILL (CH)</b> - Brown, moist, firm, high plasticity.						
	1		<b>SILT FILL</b> - Black, dry, trace fine grained gravel, trace sand.		1				
	2		<b>SILTY CLAY (CI)</b> - Brown, moist, soft, low plasticity, stratified, trace medium grained sand, trace rootlets.		2				
	3		<b>SAND</b> - Sand bedding, poorly graded.		3				
	4				4				
	4		- Wet below 4.11 m.		5				
	5		<b>END OF HOLE AT 4.72 m</b>		6				

SAMPLE TYPE Auger Grab

CONTRACTOR **Active Drilling & Piling** INSPECTOR **J. CHING**

APPROVED \_\_\_\_\_ DATE 6/12/05