

# **GEOTECHNICAL INVESTIGATIONS**

**Highway Construction  
Km 1723.2 to 1734.6 Alaska Highway #1  
Yukon, 2003-2004  
Volume 1 of 3**



**Transportation Engineering Branch  
Geotechnical Services**

**BOX 2703, WHITEHORSE, YUKON  
PHONE 867-667-8820 FAX 867-393-6447**

**ORIGINAL - Do Not Remove From File**



HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1723.2 to 1734.6  
YUKON 2003-2004

ALASKA HIGHWAY #1

Highway Construction  
Km 1723.2 to 1734.6  
Alaska Highway #1  
Yukon 2003-2004  
**Volume 1 of 3**

This Data Package prepared for project viewing:

January, 2003

Transportation Engineering Branch  
Geotechnical Services  
461 Range Road  
Whitehorse, Yukon



## CONTENTS

### Volume 1 of 3

#### INTRODUCTION

Investigation notes, classification methods and legends.

#### CENTRELINE TESTING ALASKA HIGHWAY

Subsurface Exploration and Testing Report Sheets are provided.

The reports for the centreline holes are arranged according to project location, starting at Km 1723+140 and increasing to Km 1734+776.

TEST HOLES 343 to 379	shown with prefix 612-
TEST HOLES 380 to 384	shown with prefix 613-
TEST HOLES 385 to 409	shown with prefix 615-
TEST HOLES 410 to 434	shown with prefix 616-
TEST HOLES 435 to 459	shown with prefix 617-
TEST HOLES 460 to 484	shown with prefix 618-
TEST HOLES 485 to 500	shown with prefix 619-

#### **NOTE:**

**Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.**

## CONTENTS (continued)

### Volume 2 of 3

#### CENTRELINE TESTING ALASKA HIGHWAY

Laboratory Testing Result Sheets are provided.

The reports for the centreline holes are arranged according to test hole number, starting at 612-343 and increasing to 619-500.

TEST HOLES 343 to 379	shown with prefix 612-
TEST HOLES 380 to 384	shown with prefix 613-
TEST HOLES 385 to 409	shown with prefix 615-
TEST HOLES 410 to 434	shown with prefix 616-
TEST HOLES 435 to 459	shown with prefix 617-
TEST HOLES 460 to 484	shown with prefix 618-
TEST HOLES 485 to 500	shown with prefix 619-

#### **NOTE:**

Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.

## CONTENTS (continued)

### Volume 3 of 3

#### GRANULAR SOURCE Km 1730.2 LHS (Nines Creek) ALASKA HIGHWAY

A location plan, photographs, and subsurface exploration and testing report sheets are provided.

##### **Auger Testing**

2001	TEST HOLES 1926 to 1928	shown with prefix 623-
2001	TEST HOLES 1938 to 1941	shown with prefix 624-

##### **Backhoe Testing**

2002	TEST PITS 2460 to 2520	shown with prefix 638-
------	------------------------	------------------------

#### GRANULAR SOURCE Km 1732.0 RHS (Mines Creek) ALASKA HIGHWAY

A production history, location plan, photographs, and subsurface exploration and testing report sheets are provided.

##### **History of Aggregate Production**

1986	20 mm B.S.T. Aggregate
1994	20 mm B.S.T. Aggregate
1994	20 mm Granular "A" Base Course
2000	10 mm Crushed Sanding Aggregate

##### **Backhoe Testing**

2002	TEST PITS 2451 to 2459	shown with prefix 637-
------	------------------------	------------------------



HIGHWAY CONSTRUCTION

**GEOTECHNICAL INVESTIGATION**

Km 1723.2 to 1734.6  
YUKON 2003-2004

ALASKA HIGHWAY #1

**INTRODUCTION**



### GEOTECHNICAL INVESTIGATION DATA

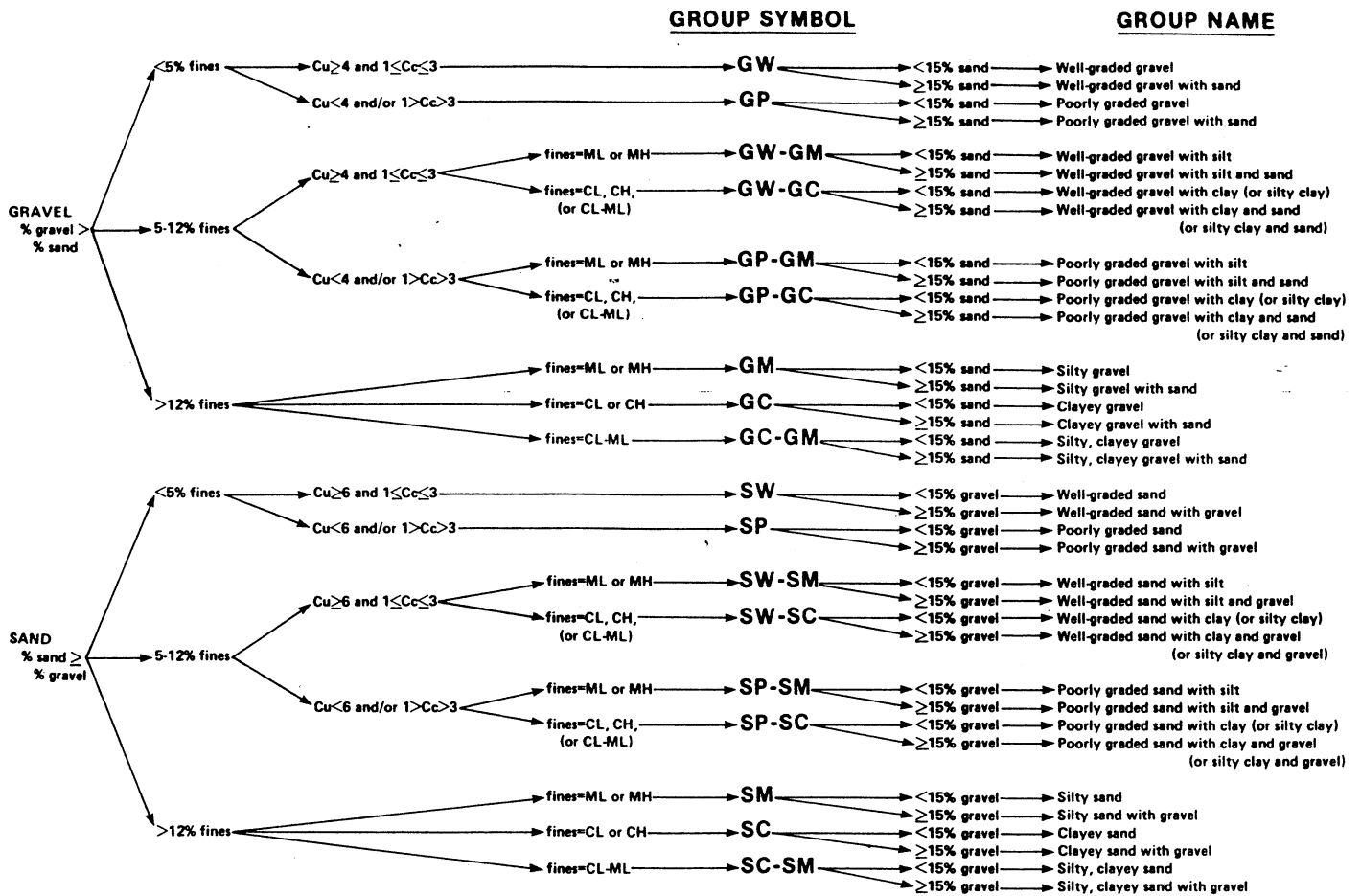
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

The description of material / soil description shown on the subsurface exploration and test reports is a textural description based on identification of retrieved material by the field drilling technician at the time of investigation. This description may be modified following laboratory testing and classification of selected samples. The system used is based on the ASTM standards for identification and classification of soils. Permafrost classifications and groundwater levels are indicated as detected at time of drilling, unless otherwise noted. Changes in moisture or frost conditions should be anticipated depending on the season, time lapse or amount of development work done since the date of investigation.

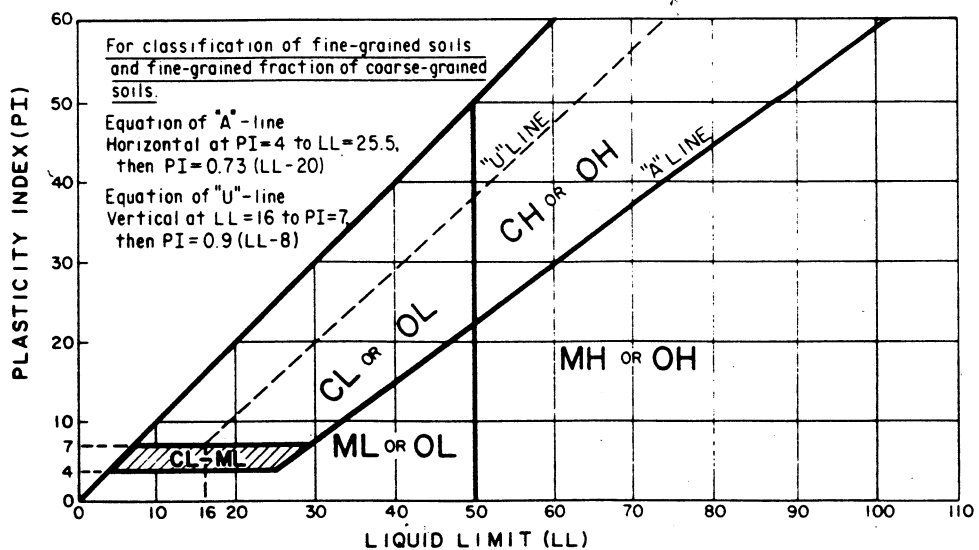
The sample identification and laboratory testing data is provided to give detailed physical properties of selected retrieved samples within the subsurface profile. ***These tests may be conducted on disturbed samples and may exhibit properties different from the native materials. The sample classification may also vary from the soil description due to variations within the sampled strata or because of changes resulting from the sampling method, excavation equipment used or testing preparation procedures.***

These descriptions are not intended to be conclusive as to the nature of any material encountered, or to conditions between or around the test borings/pits.

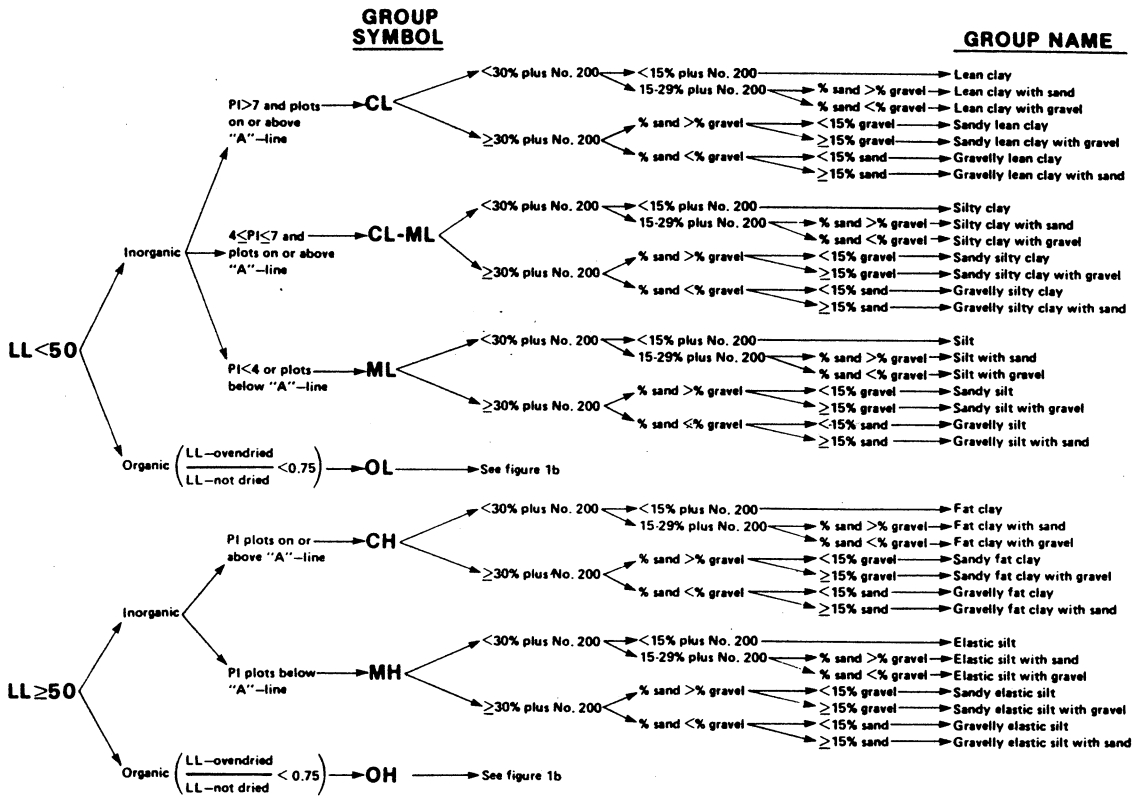
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions at the site for construction purposes.



Flow chart for classifying coarse-grained soil.



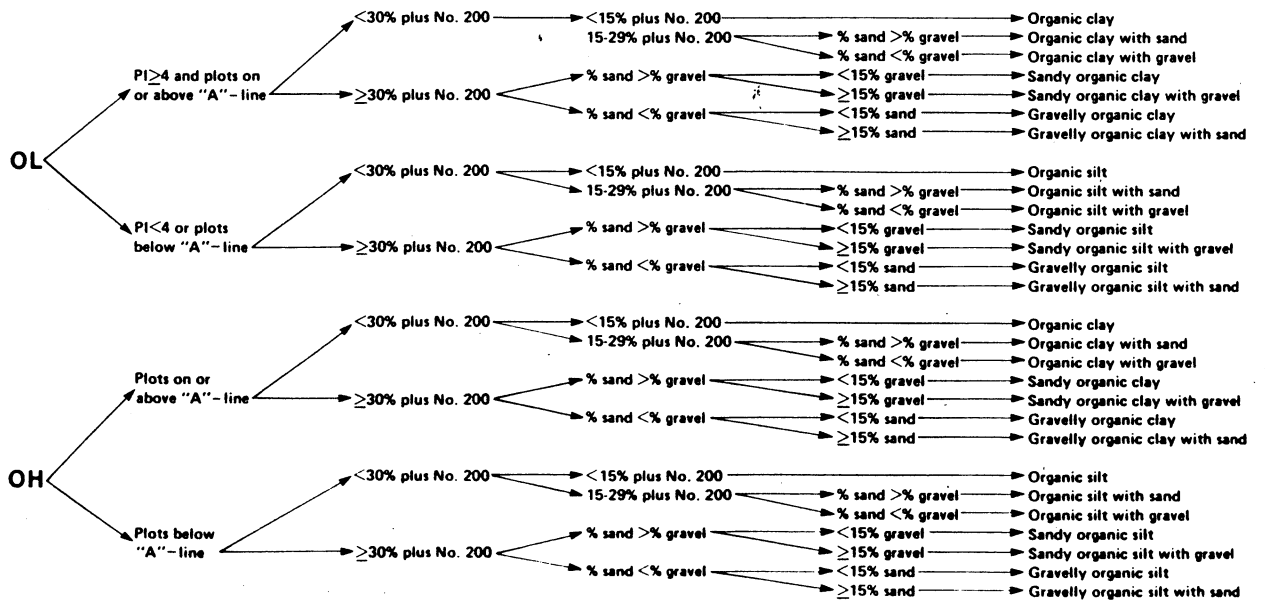
Plasticity chart.



Flow chart for classifying fine-grained soil.

**GROUP SYMBOL**

**GROUP NAME**



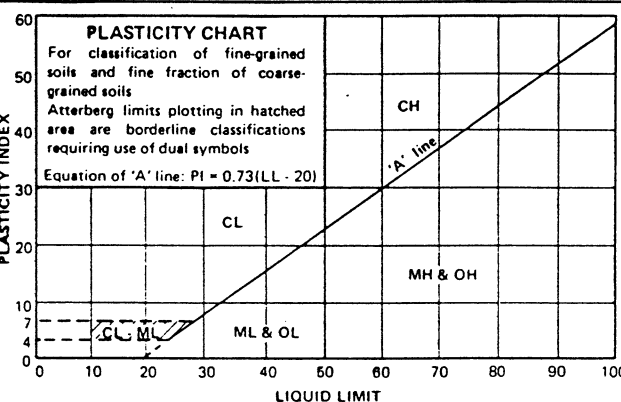
Flow chart for classifying organic soil.

CRITERIA FOR ASSIGNING GROUP SYMBOLS AND GROUP NAMES USING LABORATORY TESTS <sup>a</sup>				SOIL CLASSIFICATION		
				GROUP SYMBOL	GROUP NAME <sup>b</sup>	
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	GRAVELS More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS Less than 5% fines <sup>c</sup>	$C_u \geq 4$ and $1 \leq C_c \leq 3$ <sup>e</sup>	GW	Well-graded gravel <sup>f</sup>	
			$C_u < 4$ and/or $1 > C_c > 3$ <sup>e</sup>	GP	Poorly graded gravel <sup>f</sup>	
		GRAVELS WITH FINES More than 12% fines <sup>c</sup>	Fines classify as ML or MH	GM	Silty gravel <sup>f, g, h</sup>	
			Fines classify as CL or CH	GC	Clayey gravel <sup>f, g, h</sup>	
	SANDS 50% or more of coarse fraction passes No. 4 sieve	CLEAN SANDS Less than 5% fines <sup>d</sup>	$C_u \geq 6$ and $1 \leq C_c \leq 3$ <sup>e</sup>	SW	Well-graded sand <sup>f</sup>	
			$C_u < 6$ and/or $1 > C_c > 3$ <sup>e</sup>	SP	Poorly graded sand <sup>f</sup>	
		SANDS WITH FINES More than 12% fines <sup>d</sup>	Fines classify as ML or MH	SM	Silty sand <sup>g, h, i</sup>	
			Fines classify as CL or CH	SC	Clayey sand <sup>g, h, i</sup>	
FINE-GRAINED SOILS 50% or more passed the No. 200 sieve	SILTS AND CLAYS Liquid limit less than 50%	inorganic	PI > 7 and plots on or above "A" line <sup>j</sup>	CL	Lean clay <sup>k, l, m</sup>	
			PI < 4 or plots below "A" line <sup>j</sup>	ML	Silt <sup>k, l, m</sup>	
		organic	$\frac{\text{Liquid limit - oven dried}}{\text{Liquid limit - not dried}} < 0.75$		OL	Organic clay <sup>k, l, m, n</sup> Organic silt <sup>k, l, m, o</sup>
			SILTS AND CLAYS  Liquid limit 50% or more	inorganic	PI plots on or above "A" line	CH
	PI plots below "A" line	MH			Elastic silt <sup>k, l, m</sup>	
	organic	$\frac{\text{Liquid limit - oven dried}}{\text{Liquid limit - not dried}} < 0.75$		OH	Organic clay <sup>k, l, m, p</sup> Organic silt <sup>k, l, m, q</sup>	
		Highly organic soils		Primarily organic matter, dark in color, and organic odor	PT	Peat










- Based on the material passing the 3-in (75-mm) sieve.
- If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name.
- Gravels with 5 to 12% fines require dual symbols  
GW-GM well graded gravel with silt  
GW-GC well graded gravel with clay  
GP-GM poorly graded gravel with silt  
GP-GC poorly graded gravel with clay
- Sands with 5 to 12% fines require dual symbols  
SW-SM well graded sand with silt  
SW-SC well graded sand with clay  
SP-SM poorly graded sand with silt  
SP-SC poorly graded sand with clay
- $C_u = D_{60}/D_{10}$        $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
- If soil contains > 15% sand, add "with sand" to group name.
- If fines classify as CL-ML, use dual symbol GC-GM, SC-SM.
- If fines are organic, add "with organic fines" to group name.
- If soil contains > 15% gravel, add "with gravel" to group name.
- If Atterberg limits plot in hatched area, soil is a CL-ML, silty clay.
- If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant.
- If soil contains > 30% plus No. 200, predominantly sand, add "sandy" to group name.
- If soil contains  $\geq$  30% plus No. 200, predominantly gravel, add "gravelly" to group name.
- PI > 4 and plots on or above "A" line.
- PI < 4 or plots below "A" line.
- PI plots on or above "A" line.
- PI plots below "A" line.

*Soil classification chart*

# UNIFIED SOIL CLASSIFICATION†

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES	CLASSIFICATION CRITERIA			
COARSE-GRAINED SOILS	More than 50% retained on No. 200 sieve*	GRAVELS 50% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	$C_u = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting both criteria for GW Atterberg limits plot below 'A' line or plasticity index less than 4 Atterberg limits plot above 'A' line and plasticity index greater than 7	
			GRAVELS WITH FINES	GP	Poorly-graded gravels and gravel-sand mixtures, little or no fines		
			GRAVELS WITH FINES	GM	Silty gravels, gravel-sand-silt mixtures		
		SANDS More than 50% of coarse fraction passes No. 4 sieve	CLEAN SANDS	SW	Well-graded sands and gravelly sands, little or no fines		$C_u = \frac{D_{60}}{D_{10}}$ Greater than 6 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting both criteria for SW Atterberg limits plot below 'A' line or plasticity index less than 4 Atterberg limits plot above 'A' line and plasticity index greater than 7
			SANDS WITH FINES	SP	Poorly-graded sands and gravelly sands, little or no fines		
			SANDS WITH FINES	SM	Silty sands, sand-silt mixtures		
	FINE-GRAINED SOILS	50% or more passes No. 200 sieve*	SILTS AND CLAYS Liquid limit 50% or less	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	<b>PLASTICITY CHART</b> For classification of fine-grained soils and fine fraction of coarse-grained soils Atterberg limits plotting in hatched area are borderline classifications requiring use of dual symbols Equation of 'A' line: $PI = 0.73(LL - 20)$ 	
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		
				OL	Organic silts and organic silty clays of low plasticity		
		SILTS AND CLAYS Liquid limit greater than 50%	MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts			
CH	Inorganic clay of high plasticity, fat clays						
OH	Organic clays of medium to high plasticity						
HIGHLY ORGANIC SOILS		PT	Peat, muck and other highly organic soils	*Based on the material passing the 3 in. (75 mm) sieve †ASTM Designation D 2487, for identification procedure see D 2488			

## GROUND ICE DESCRIPTION

ICE NOT VISIBLE				VISIBLE ICE LESS THAN 50% BY VOLUME			
GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	IMAGE	GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	IMAGE
N	Nf	Poorly-bonded or friable		V	Vx	Individual ice crystals or inclusions	
	Nbn	No excess ice, well-bonded			Vc	Ice coatings on particles	
	Nbe	Excess ice, well-bonded			Vr	Random or irregularly oriented ice formations	
					Vs	Stratified or distinctly oriented ice formations	
				VISIBLE ICE GREATER THAN 50% BY VOLUME			
ICE	ICE + Soil Type	Ice with soil inclusions					
	ICE	Ice without soil inclusions (greater than 25 mm (1 in.) thick)					

- NOTE:**
- Dual symbols are used to indicate borderline or mixed ice classifications
  - Visual estimates of ice contents indicated on borehole logs  $\pm 5\%$
  - This system of ground ice description has been modified from NRC Technical Memo 79, Guide to the Field Description of Permafrost for Engineering Purposes

**LEGEND**  
 Soil  Ice 

		BOUNDARY LINES ON DRILL LOGS			TEST HOLE NO: 3					
ENGINEERING-CAPITAL					Project No:					
					ELEVATION: 0.00 (m)					
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	BOUNDARY LINES									0.0
	A solid line is used when a definite soil change is logged and a depth is known.									
1.0	A dashed line is used when a definite soil change is noted either by the field log or the sample test results and the depth of change is unknown.									1.0
2.0	A dotted line is used when a gradual or gradational change is noted by field notes and sample test results.									2.0
3.0										3.0
4.0	▼ A triangle over two lines indicates water level detected at the time of drilling, unless otherwise noted									4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY:		COMPLETION DEPTH: 6.0 m				
				REVIEWED BY:		COMPLETE: / /				
				Fig. No:						

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1723.2 to 1734.6  
YUKON 2003-2004

ALASKA HIGHWAY #1

**CENTRELINE TESTING  
1723+140 to 1734+776  
ALASKA HIGHWAY**



SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-500							
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362							
NODWELL B40 L 6" AUGER		LOCATION: 1723+140 3M RT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ASH & ORGANIC										0.0
0.0 - 1.0	SILTY SAND TO SILT WITH SAND (SM)-(ML) -brown -damp -smooth drilling		1148	●	▲		SM	○○○○		◆	1.0
1.0 - 2.0	-frozen below 1.4m -slow penetration below 1.6m		1149	●	▲		SM	○○○○		◆	2.0
2.0 - 3.0			1150	●	▲		ML			◆	3.0
3.0 - 4.0	-frozen (Vx) below 3.5m		1151		●	▲	ML			◆	4.0
4.0 - 5.0			1152	●	▲		SM	○○○○		◆	5.0
5.0 - 6.0	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -frozen -grinding between 5.0 - 7.5m -tight drilling		1153	●	▲		ML			◆	6.0
6.0 - 7.0			1154	●	▲		ML			◆	7.0
7.0 - 8.0											8.0
8.0 - 9.0											9.0
9.0 - 10.0	END HOLE @ 9.0m										10.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 9.0 m  
COMPLETE: 01/09/10

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-499								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1723+275 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -damp -easy drilling		1144				SW-SM					0.0
1.0												1.0
2.0	POORLY GRADED GRAVEL WITH SAND TO WELL-GRADED GRAVEL WITH SILT & SAND (GP)-(GW-GM) -brown -damp -little more grinding		1145				GP					2.0
3.0												3.0
4.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -moist to wet -smoother drilling below 3.0m		1146				GW-GM					4.0
5.0												5.0
6.0	END HOLE @ 4.5m		1147				GP-GM					6.0
				LOGGED BY: G.C.				COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:				COMPLETE: 01/09/10				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-498								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1723+350 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -rough drilling -grinding starts @ surface (previously stripped)		1140				GP-GM					0.0
1.0												1.0
2.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp		1141				GP					2.0
3.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -easier penetration @ 3.0m		1142				SW-SM					3.0
4.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		1143				GP-GM					4.0
4.0	END HOLE @ 4.0m											4.0
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.      COMPLETION DEPTH: 4.0 m  
 REVIEWED BY:      COMPLETE: 01/09/10  
 Fig. No:      Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-497										
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362										
NODWELL B40 L 6" AUGER		LOCATION: 1723+540 3M RT		ELEVATION: 0.00 (m)										
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE														
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)		
				PLASTIC	M.C.	LIQUID			20	40	60		80	20
0.0	SILT WITH ORGANICS -orange-brown -0.5m diameter boulders on slope	X	1136	●	▲		ML		◆			0.0		
1.0	SANDY SILT TO SILTY SAND (ML)-(SM) -creamy brown -dry -smooth easy drilling													1.0
2.0				X	1137	●			▲		SM		◆	
3.0	SILTY SAND WITH GRAVEL TO POORLY GRADED SAND WITH SILT (SM)-(SP-SM) -dry -minor grinding @ 2.6m	X	1138	●	▲		SM		◆	■		3.0		
4.0		X	1139	●	▲		SP-SM		◆			4.0		
5.0	SILT WITH GRAVEL -damp -grinding between 5 & 6m -no sample recovered between 5 & 6m											5.0		
6.0	END HOLE @ 6.0m -one refusal @ 6m -second refusal @ 5.5m -white rock dust on bit											6.0		
7.0												7.0		
8.0												8.0		
9.0												9.0		
10.0												10.0		

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.0 m  
COMPLETE: 01/09/10  
Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-496								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1723+625 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
0.0 - 1.0	SILTY SAND (SM) -brown -moist -smooth drilling	X	1130	●	▲		SM	○○○○		◆		1.0
1.0 - 2.0	POORLY GRADED SAND WITH SILT TO SILTY SAND (SP-SM)-(SM) -brown -damp -minor grinding drilling	X	1131	●	▲		SP-SM	○○○○	■		◆	2.0
2.0 - 3.0		X	1132	●	▲		SP-SM	○○○○	■		◆	3.0
3.0 - 4.0	-tight drilling, some grinding drilling below 5.0m	X	1133	●	▲		SM	○○○○	■		◆	4.0
4.0 - 5.0		X	1134	●	▲		SM	○○○○	■		◆	5.0
5.0 - 6.0	-smooth slow drilling below 6.0m	X	1135	●	▲		SM	○○○○	■		◆	6.0
6.0 - 7.0		X	1135	●	▲		SM	○○○○	■		◆	7.0
7.0 - 8.0												8.0
8.0 - 9.0												9.0
9.0 - 10.0	END HOLE @ 9.0m											10.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

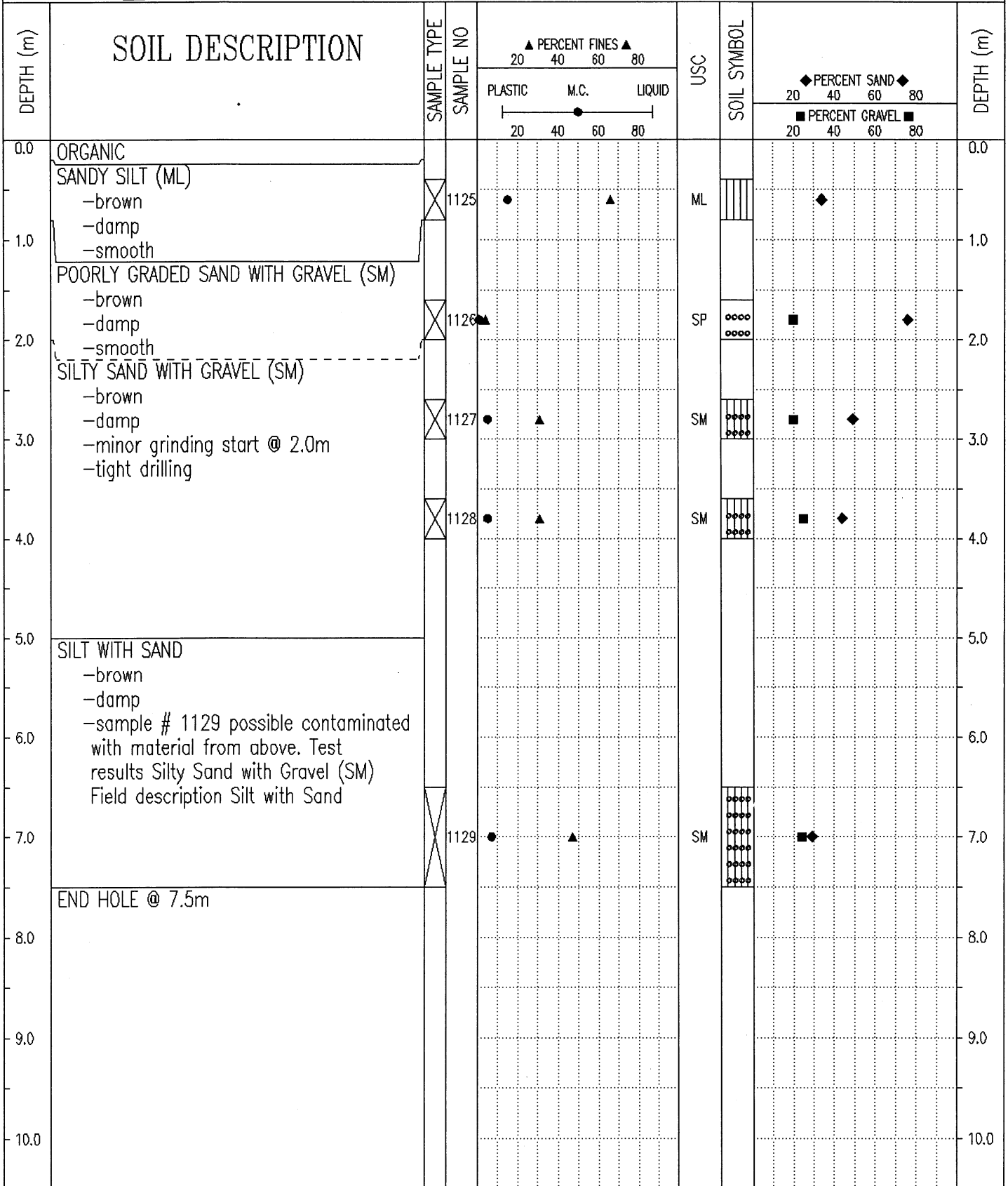
Fig. No:

COMPLETION DEPTH: 9.0 m

COMPLETE: 01/09/10

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 619-495
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1723+725 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.      COMPLETION DEPTH: 7.5 m  
 REVIEWED BY:      COMPLETE: 01/09/10  
 Fig. No:      Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-494						
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362						
NODWELL B40 L 6" AUGER		LOCATION: 1723+825 3M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC									0.0
	SANDY SILT (ML)									
	-brown									
	-damp									
	-smooth									
1.0			1121			ML				1.0
	SILTY SAND TO SILTY SAND WITH GRAVEL (SM)									
	-brown									
	-damp									
	-some grinding @ 1.6m (minor)									
2.0			1122			SM				2.0
3.0			1123			SM				3.0
4.0			1124			SM				4.0
	END HOLE @ 4.3m									
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.3 m				
				REVIEWED BY:		COMPLETE: 01/09/10				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-493								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1723+925 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE		
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC										0.0	
	SILT WITH SAND (ML) -wet to moist		1117	●		▲	ML		◆			
1.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -damp -grinding drilling										1.0	
			1118	▲			SW-SM		◆	■		
2.0											2.0	
	SILTY SAND WITH GRAVEL (SM) -damp -smooth below 3.0m										3.0	
			1119	●	▲		SM		◆	■		
3.0											3.0	
			1120	●	▲		SM		◆	■		
4.0											4.0	
	END HOLE @ 4.3m										5.0	
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

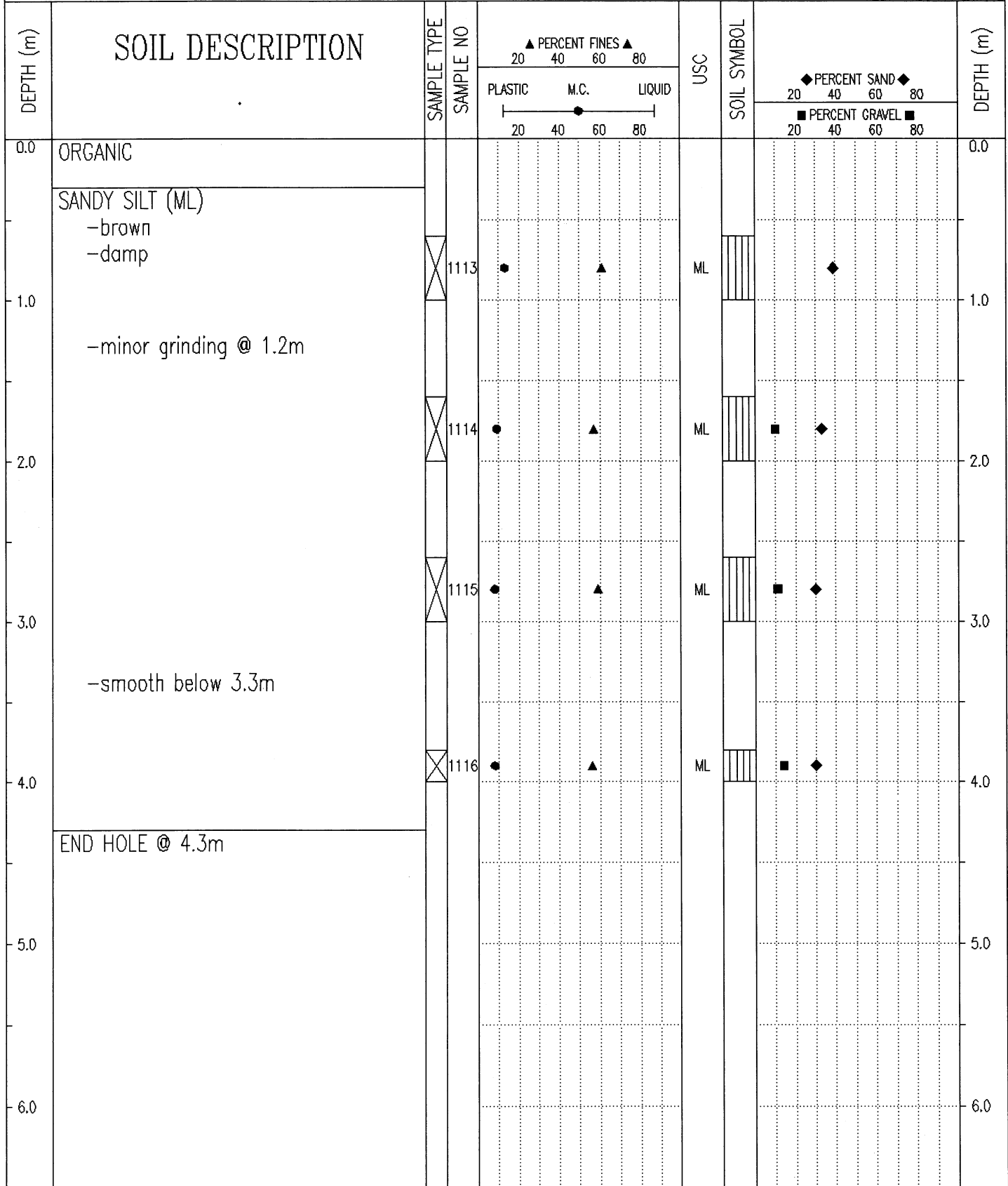
Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/07

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 619-492
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1724+025 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/06

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-491							
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362							
NODWELL B40 L 6" AUGER		LOCATION: 1724+125 3M RT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC									0.0	
0.0 - 1.0	SANDY SILT (ML) -brown -damp -smooth	X	1109	●		▲	ML	■	◆	1.0	
1.0 - 2.0	SANDY GRAVELLY SILT -moist -damp -some grinding -lost sample #1110	X	1110	●						2.0	
2.0 - 3.0	SILT WITH SAND TO SANDY SILT (ML) -brown -damp -smooth	X	1111	●		▲	ML	■	◆	3.0	
3.0 - 4.0		X	1112	●		▲	ML	■	◆	4.0	
4.0 - 4.3	END HOLE @ 4.3m									4.3	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

COMPLETION DEPTH: 4.3 m

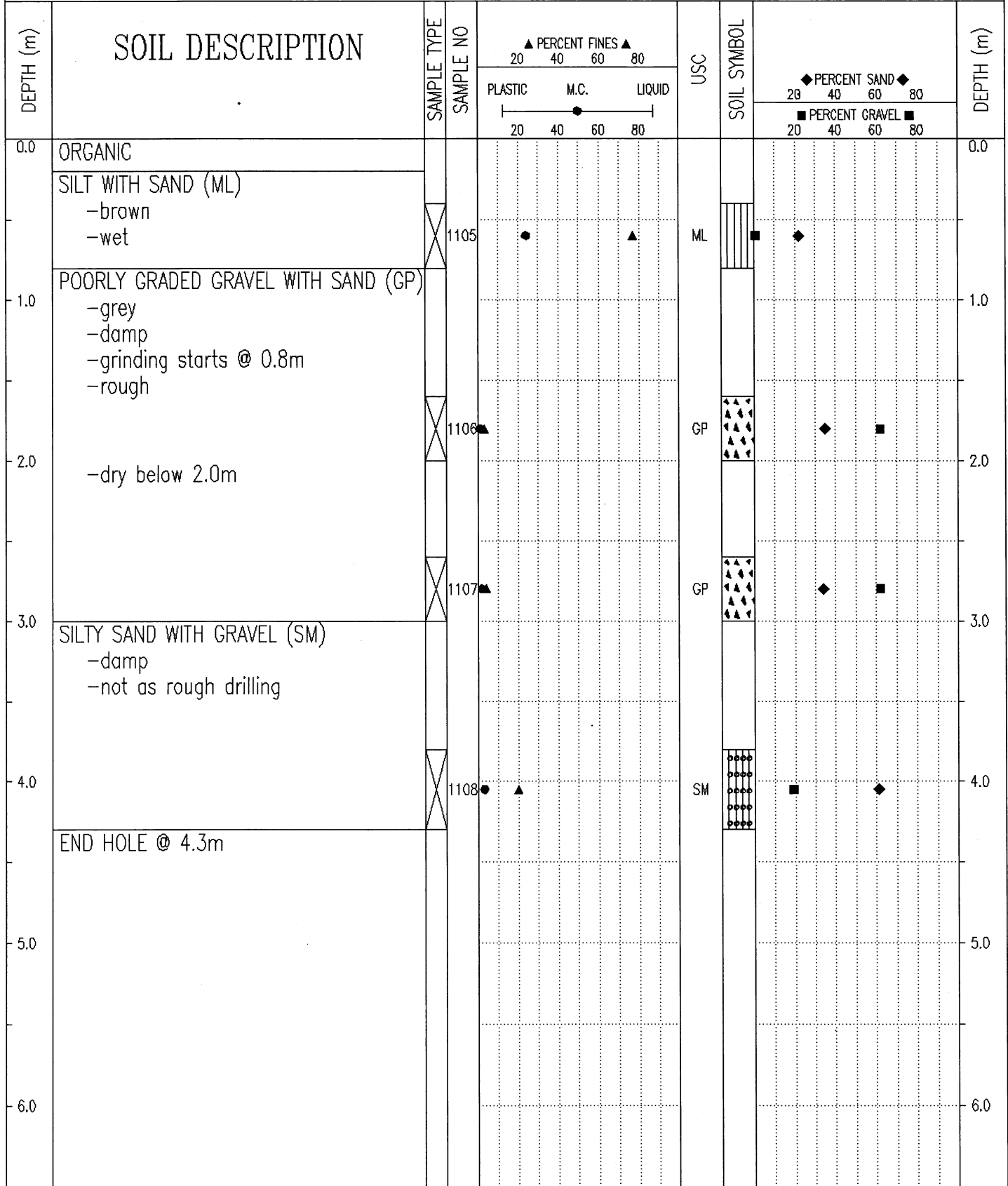
REVIEWED BY:

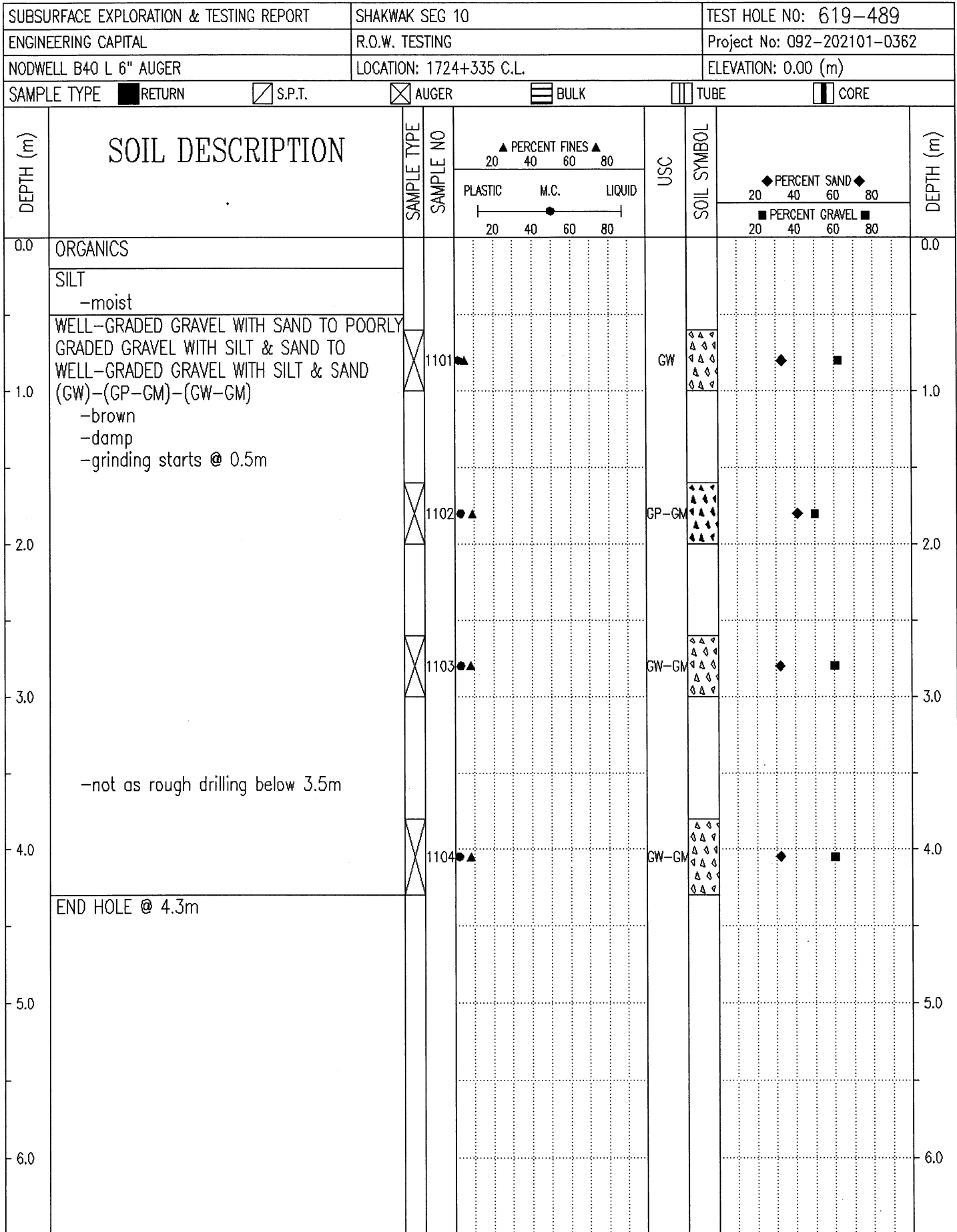
COMPLETE: 01/09/06

Fig. No:

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 619-490
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1724+225 C.L.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		





Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

COMPLETION DEPTH: 4.3 m

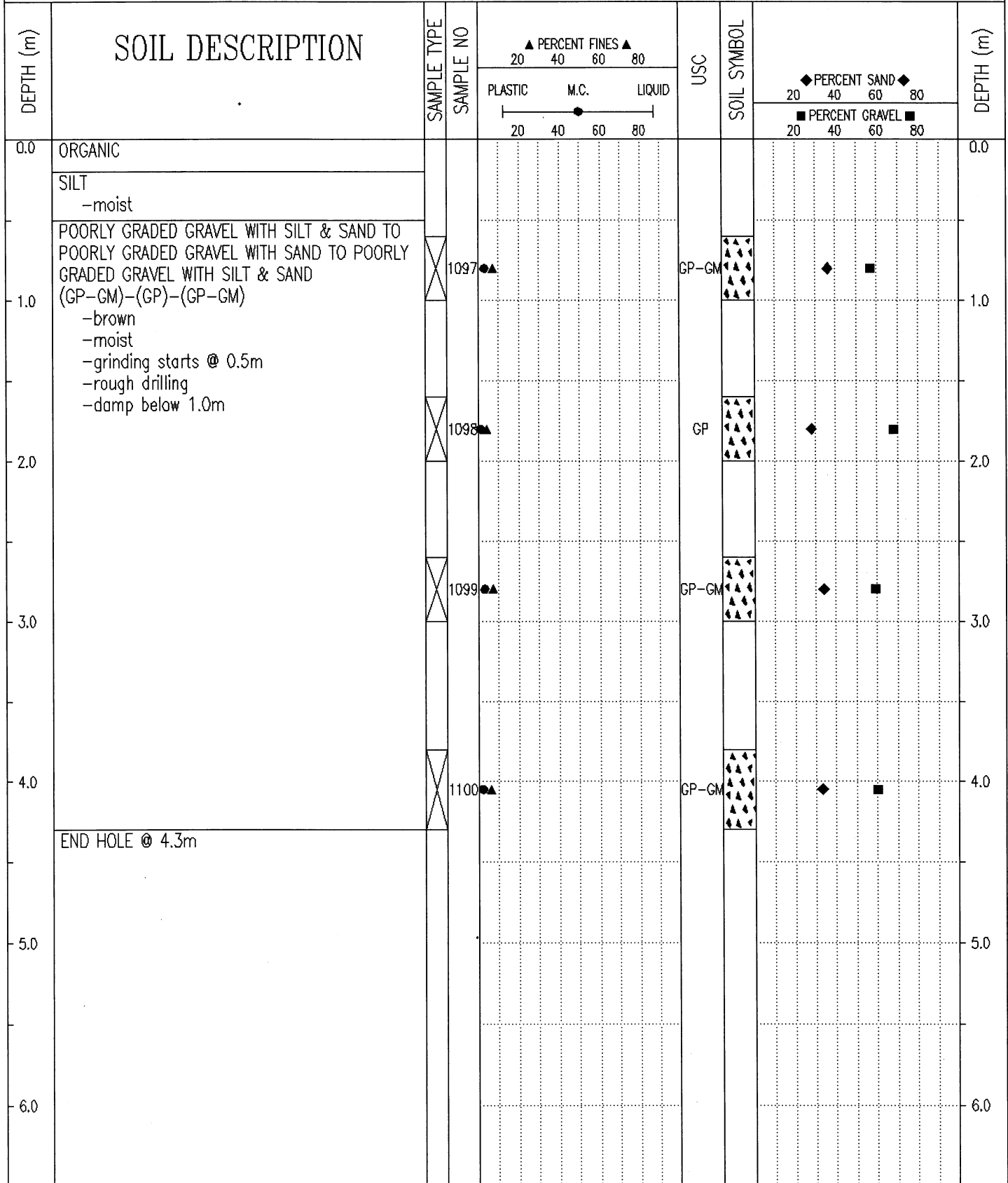
REVIEWED BY:

COMPLETE: 01/09/06

Fig. No:

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 619-488
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1724+400 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input checked="" type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/06

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-487								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1724+495 15M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER								
RETURN		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
0.0 - 1.0	SANDY SILT (ML) -brown -moist -smooth		1093	●	▲		ML	■	◆			1.0
1.0 - 2.0	WELL TO POORLY GRADED GRAVEL WITH SILT & SAND (GW-GM)-(GP-GM) -brown -damp -grinding starts @ 1.3m		1094	▲			GW-GM	◆	■			2.0
2.0 - 3.0			1095	●	▲		GP-GM	◆	■			3.0
3.0 - 4.0	SILTY SAND WITH GRAVEL (SM) -smoother but grinding drilling		1096	●	▲		SM	◆	■			4.0
4.0 - 4.3	END HOLE @ 4.3m											4.3

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/06

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-485							
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362							
NODWELL B40 L 6" AUGER		LOCATION: 1724+570 C.L.		ELEVATION: 0.00 (m)							
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE				
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆	PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID					
0.0	ORGANIC									0.0	
0.0 - 1.0	SILT WITH SAND (ML) -brown -damp -smooth tight drilling	X	1085	●	▲		ML	◆		1.0	
1.0 - 2.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY GRAVEL WITH SAND (GP-GM)-(GM) -brown -damp -grinding starts @ 1.5m -rough drilling below 2.0m	X	1086	●	▲		GP-GM	◆	■	2.0	
2.0 - 3.0		X	1087	●	▲		GM	◆	■	3.0	
3.0 - 4.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -smooth drilling	X	1088	●	▲		SM	◆		4.0	
4.0 - 4.3	END HOLE @ 4.3m									4.3	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

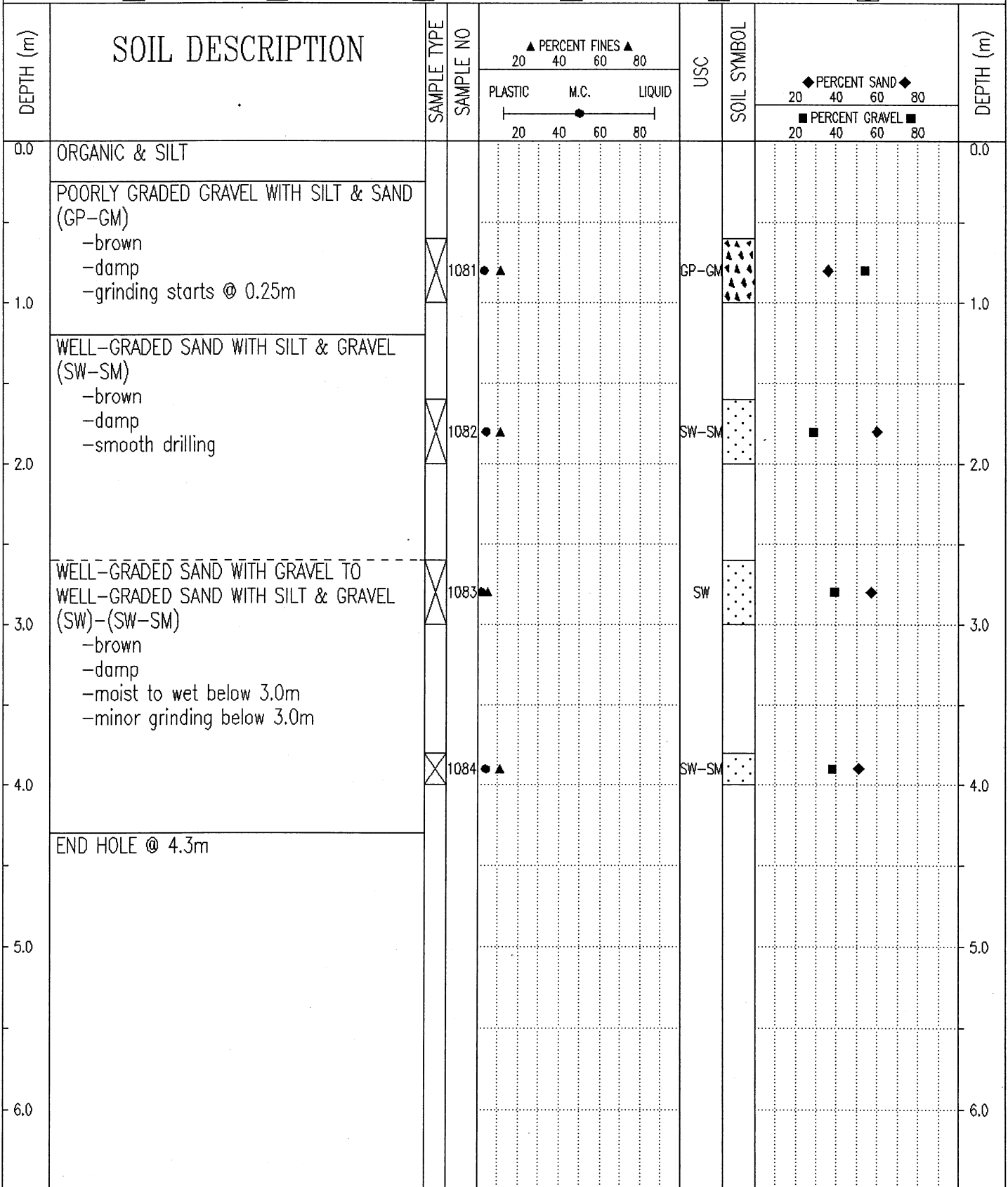
COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/06

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 619-486							
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362							
NODWELL B40 L 6" AUGER		LOCATION: 1724+570 20M LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER							
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE							
				<input type="checkbox"/> CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	SANDY SILT (ML) -brown -moist										0.0
1.0	WELL TO POORLY GRADED GRAVEL WITH SILT & SAND (GW-GM)-(GP-GM) -brown -damp -grinding starts @ 1.0m -rough drilling										1.0
2.0			1089	●		▲	ML		◆		
3.0			1090	●		▲	GW-GM		◆	■	
4.0	SILTY GRAVEL WITH SAND (GM) -brown -moist -not so rough		1091	●		▲	GP-GM		◆	■	
5.0	END HOLE @ 4.3m		1092	●		▲	GM		◆	■	
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.3 m COMPLETE: 01/09/06		Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-484
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1724+570 25M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon  
Transportation Engineering

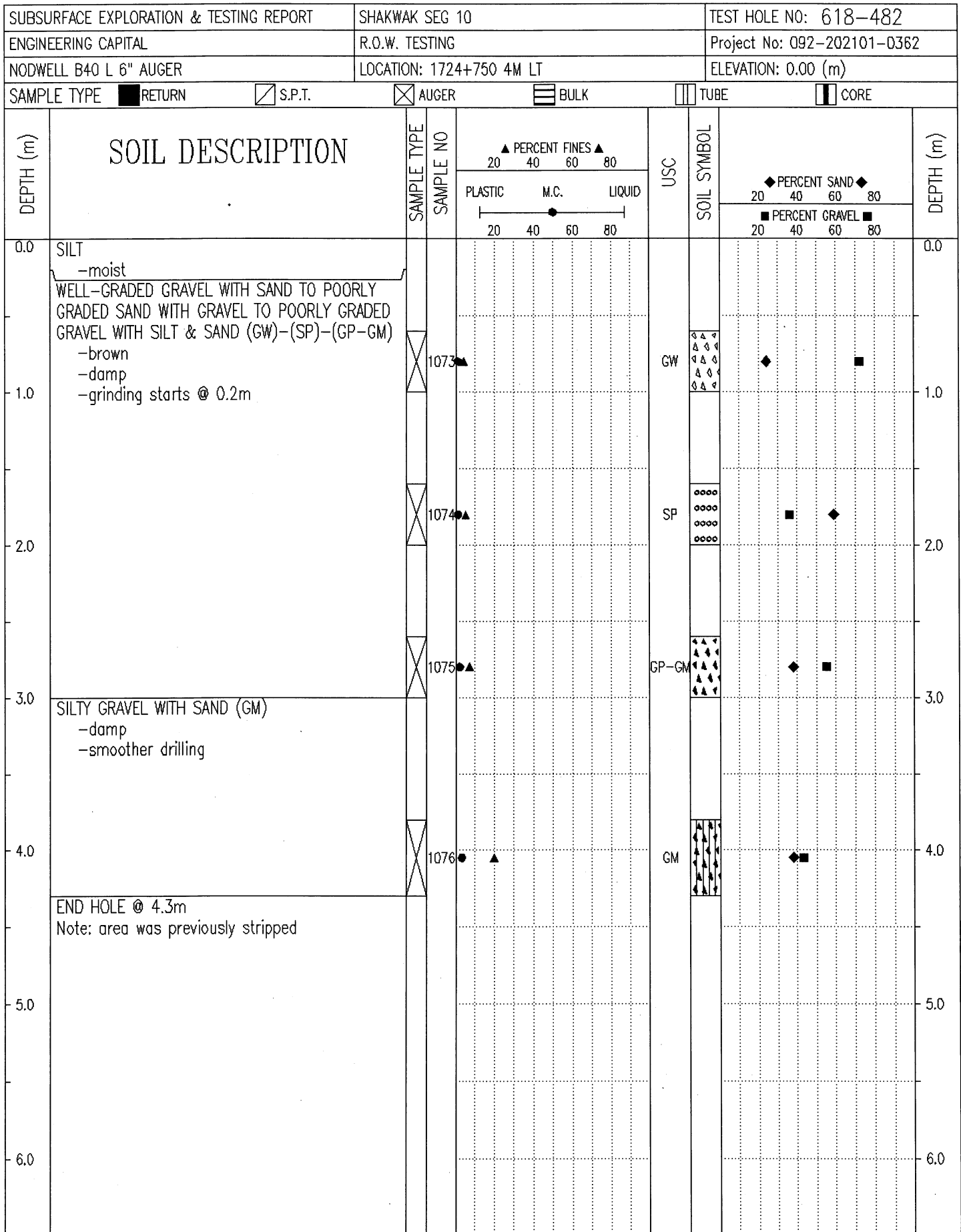
LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
REVIEWED BY:	COMPLETE: 01/09/06
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-483								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1724+650 3M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC & SILT SILT											0.0
1.0	POORLY TO WELL-GRADED GRAVEL WITH SAND (GP)-(GW) -brown -damp -grinding starts @ 0.5m -rough drilling	<input checked="" type="checkbox"/>	1077				GP	▲▲▲▲	◆	■		1.0
2.0	SILTY SAND WITH GRAVEL TO WELL-GRADED SAND WITH SILT & GRAVEL (SM)-(SW-SM) -damp -smoother drilling	<input checked="" type="checkbox"/>	1078				GW	▲▲▲▲	◆	■		2.0
3.0		<input checked="" type="checkbox"/>	1079	●	▲		SM	●●●●		➔		3.0
4.0		<input checked="" type="checkbox"/>	1080	●	▲		SW-SM	●●●●	■	◆		4.0
4.3	END HOLE @ 4.3m											4.3

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/09/06



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

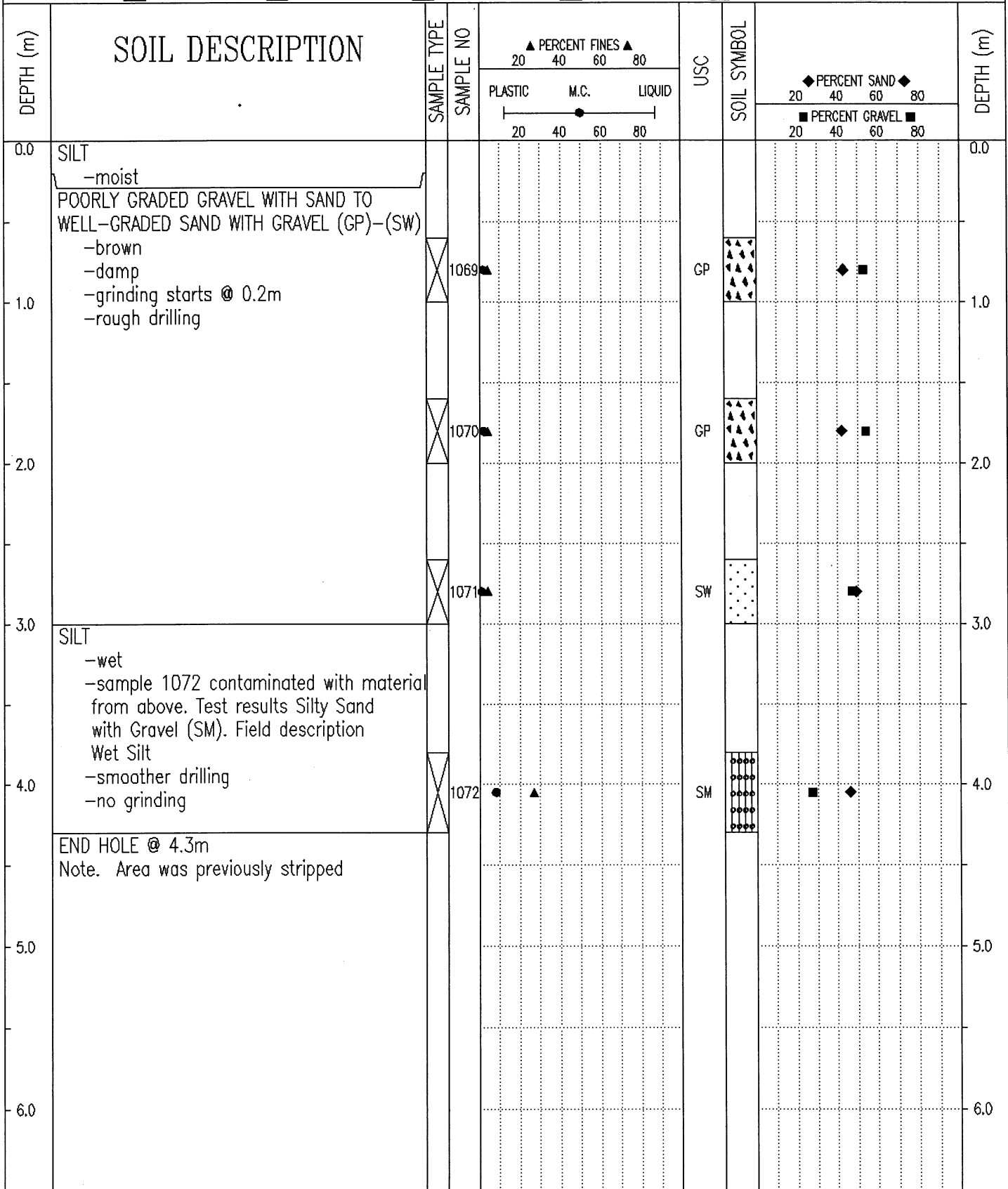
Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/06

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-481
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1724+850 4M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



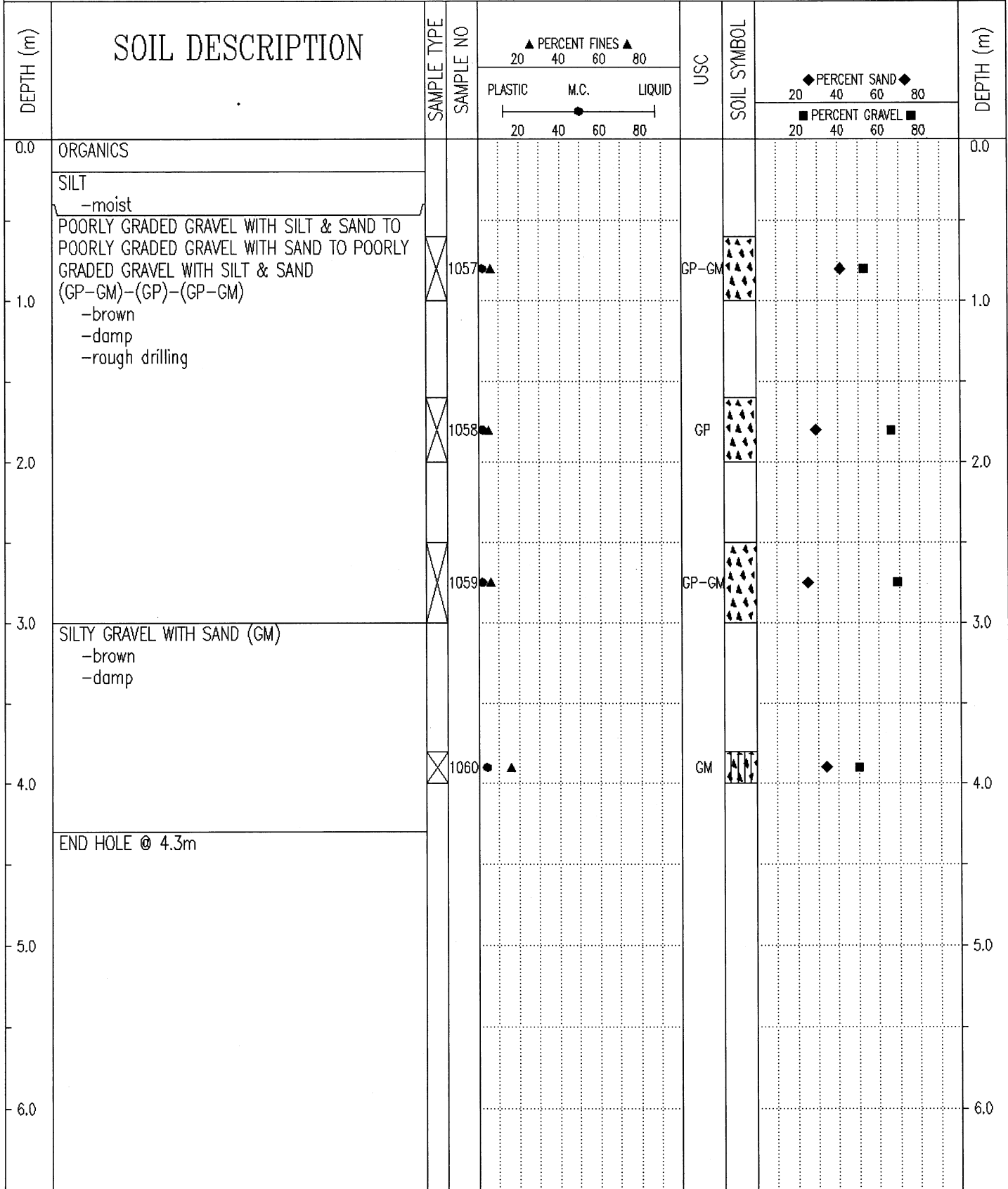
Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
REVIEWED BY:	COMPLETE: 01/09/06
Fig. No:	Page 1 of 1

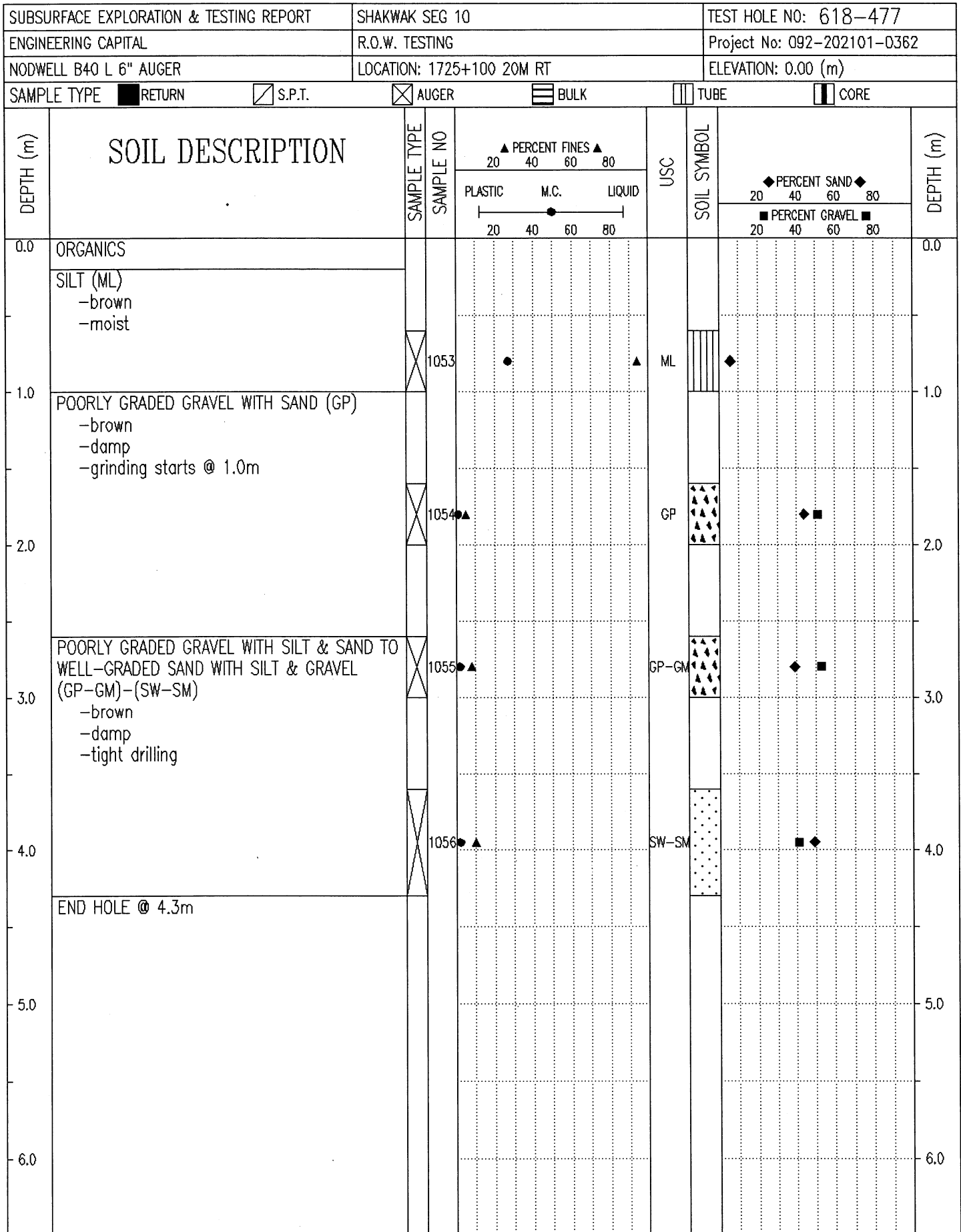
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-480								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1724+950 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SILT -brown -moist											0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND TO WELL-GRADED SAND WITH GRAVEL (GP-GM)-(SW) -brown -damp -grinding starts @ 0.5m	X	1065	▲			GP-GM	▲▲▲▲	◆	■		1.0
2.0		X	1066	▲			SW	●●●●		◆	■	2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -damp -rough drilling	X	1067	●	▲		SM	●●●●		◆	■	3.0
4.0	SILTY GRAVEL WITH SAND (GM) -brown -damp -not as rough drilling	X	1068	●	▲		GM	▲▲▲▲	◆	■		4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.			COMPLETION DEPTH: 4.3 m					
				REVIEWED BY:			COMPLETE: 01/09/06					
				Fig. No:			Page 1 of 1					



SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-478
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1725+100 C.L.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/09/05
	Fig. No:	Page 1 of 1



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

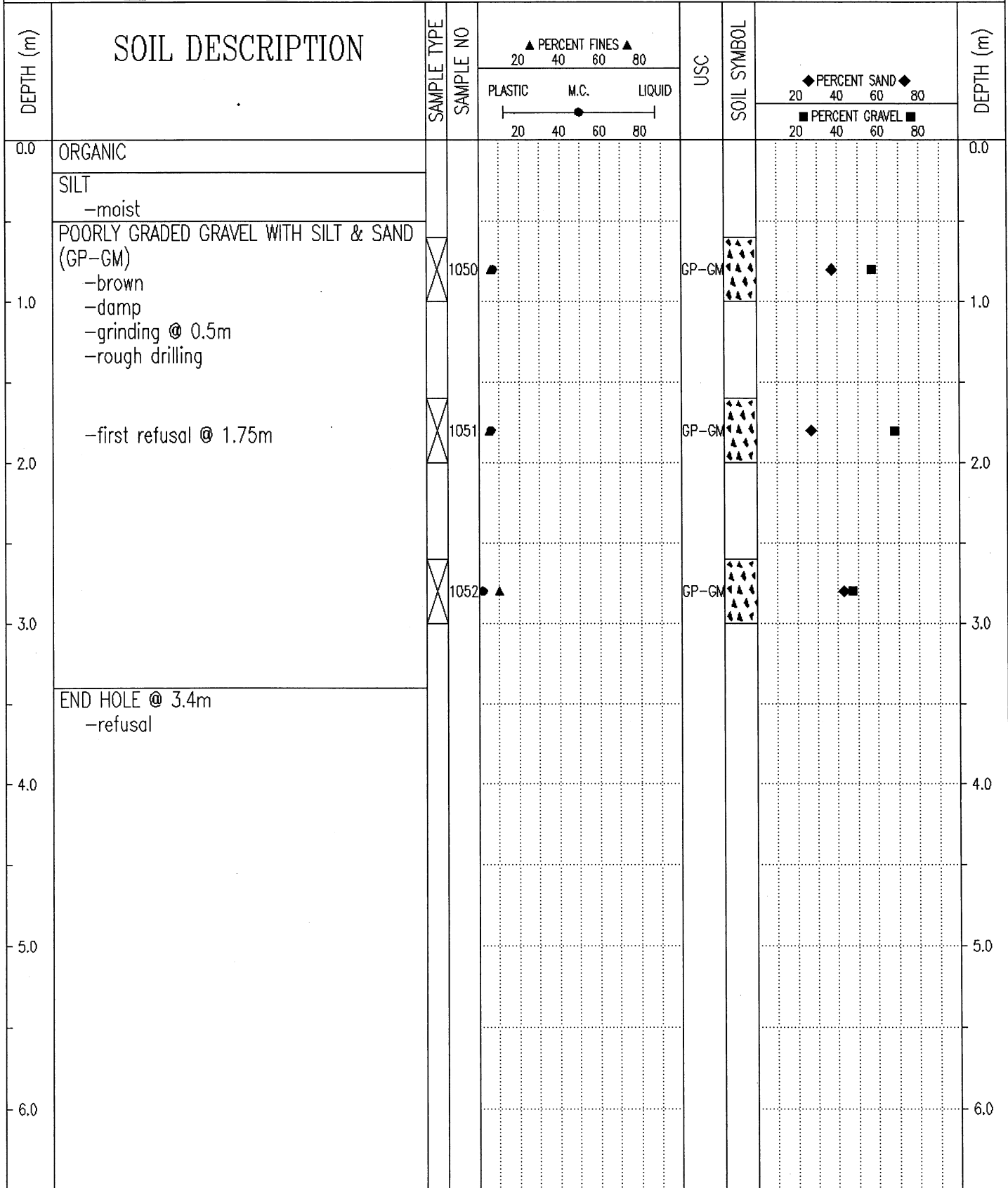
Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/05

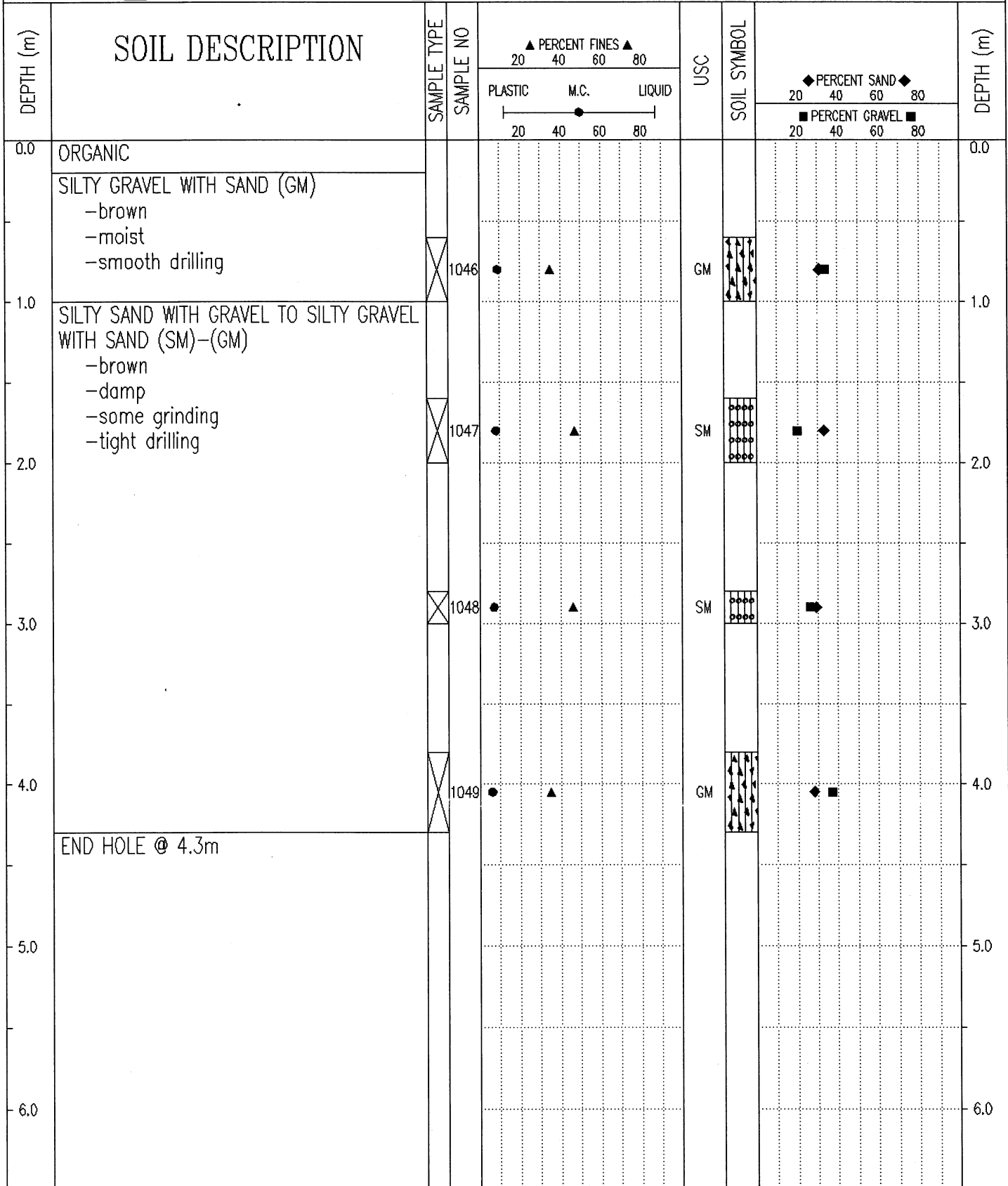
Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-476
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1725+100 20M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



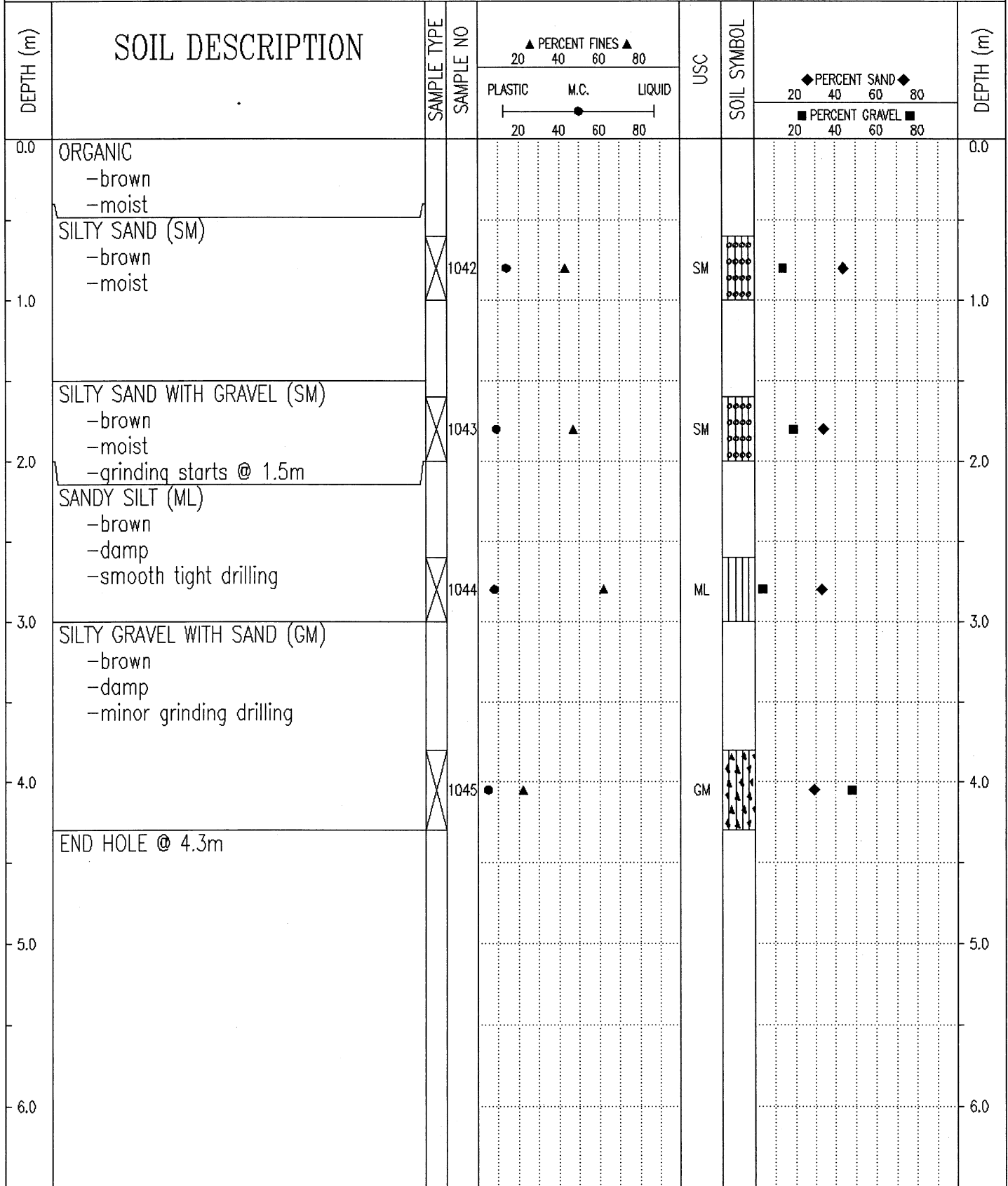
Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 3.4 m
	REVIEWED BY:	COMPLETE: 01/09/05
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-475
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1725+150 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/09/05
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-474
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1725+250 2M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
REVIEWED BY:	COMPLETE: 01/09/05
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-472						
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362						
NODWELL B40 L 6" AUGER		LOCATION: 1725+350 C.L.		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC SILT -wet									0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND TO POORLY GRADED GRAVEL WITH SAND TO WELL-GRADED SAND WITH SILT & GRAVEL (GP-GM)-(GP)-(SW-SM) -brown -damp -grinding starts @ 0.5m	<input checked="" type="checkbox"/>	1034			GP-GM	▲▲▲▲	◆	■	1.0
2.0		<input checked="" type="checkbox"/>	1035			GP	▲▲▲▲	◆	■	2.0
3.0		<input checked="" type="checkbox"/>	1036			GP	▲▲▲▲	◆	■	3.0
4.0		<input checked="" type="checkbox"/>	1037	▲		SW-SM	●●●●	◆	■	4.0
5.0	END HOLE @ 4.3m									5.0
6.0										6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/05

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-473								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-D362								
NODWELL B40 L 6" AUGER		LOCATION: 1725+350 20M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC											0.0
	POORLY GRADED GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GP)-(GP-GM)											
	-brown											
	-damp											
	-grinding starts @ 0.2m											
	-one refusal @ 0.75m											
1.0		X	1038				GP					1.0
		X	1039				GP					
2.0		X	1040				GP-GM					2.0
		X	1041				GP-GM					4.0
3.0												3.0
	-2nd refusal @ 2.5m											
4.0												4.0
	END HOLE @ 4.3m											
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

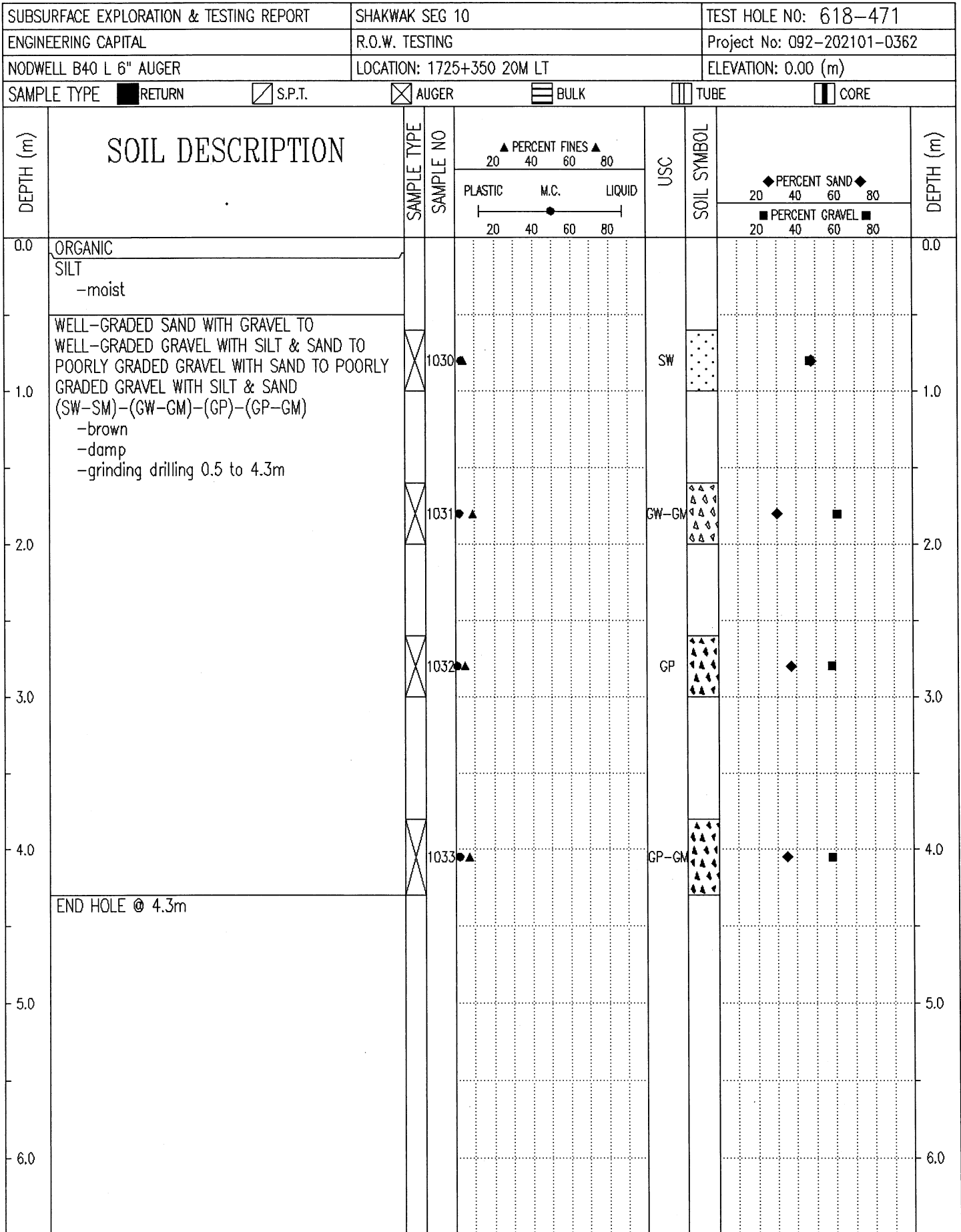
REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/05

Page 1 of 1



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/05

Page 1 of 1

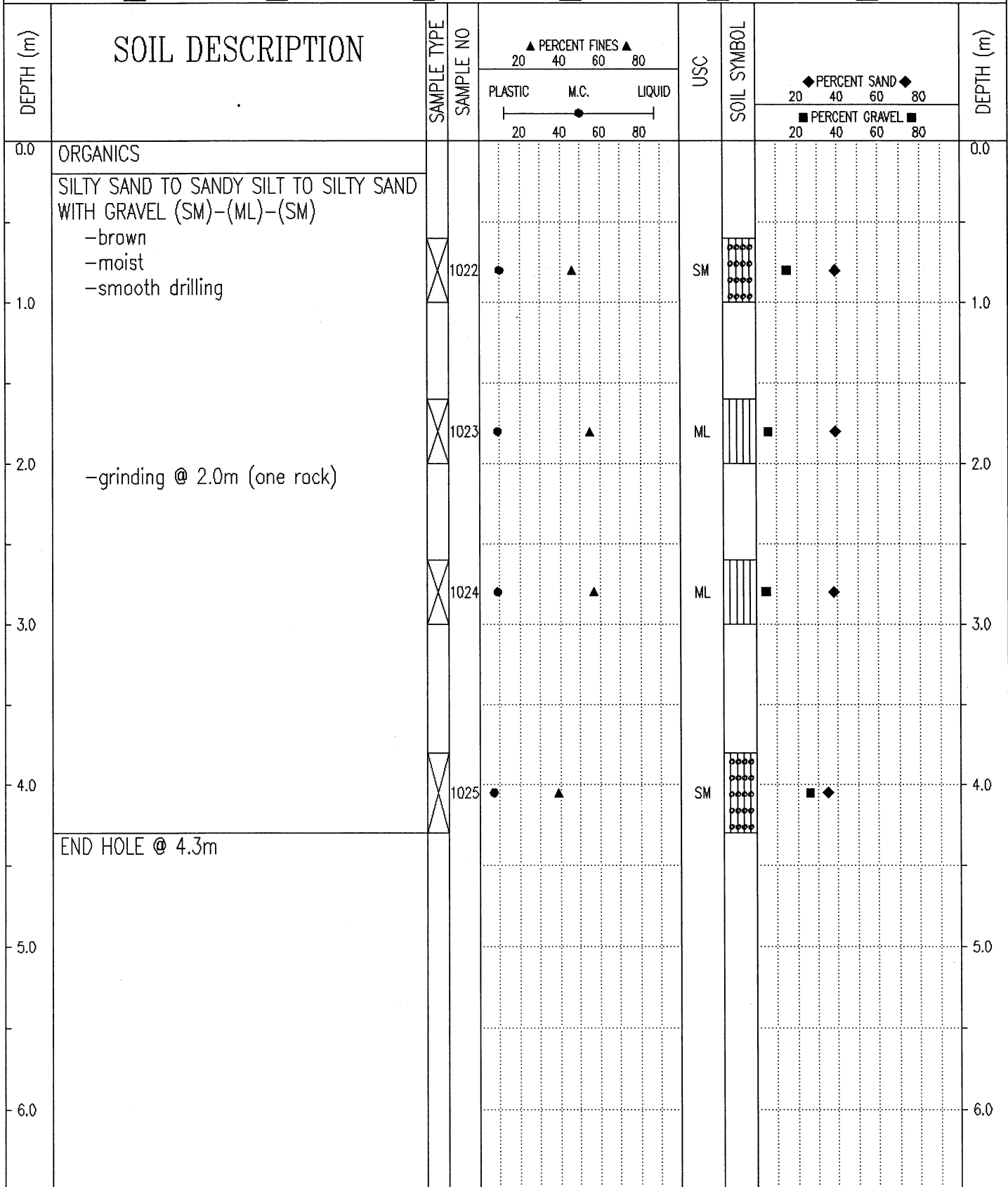
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-470								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1725+400 5M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -chocolate brown											0.0
1.0	SILT (ML) -wet -smooth drilling	<input checked="" type="checkbox"/>	1026				ML					1.0
2.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -grinding starts @ 1.3m	<input checked="" type="checkbox"/>	1027				GP-GM					2.0
3.0	-damp below 2.5m	<input checked="" type="checkbox"/>	1028				GP-GM					3.0
4.0	END HOLE @ 4.3m	<input checked="" type="checkbox"/>	1029				GP-GM					4.0
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/09/05

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-469
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1725+500 2M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/09/05
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-468								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1725+625 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER								
RETURN		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	WELL-GRADED GRAVEL WITH SAND (GW) -brown -damp -grinding starts @ surface -previously stripped											0.0
1.0			1018	▲	●		GW	◆	■			1.0
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -damp -less grinding - smoother tight drilling		1019	●	▲		SM	■	◆			2.0
3.0			1020	●	▲		SM	■	◆			3.0
4.0			1021	●	▲		GM	■	◆			4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/05

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-467								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0382								
NODWELL B40 L 6" AUGER		LOCATION: 1725+685 20M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
AUGER		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	SANDY SILT WITH GRAVEL & ORGANICS (ML) -moist -smooth drilling											0.0
1.0		X	1014	●	▲		ML		◆			1.0
2.0	SANDY SILT (ML) -brown -moist	X	1015	●	▲		ML		◆			2.0
3.0	SANDY GRAVEL WITH SAND TO SILTY GRAVEL (GM) -brown -moist -minor grinding	X	1016	●	▲		GM		◆	■		3.0
4.0		X	1017	●	▲		GM		◆	■		4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/05

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-466								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1725+753 5M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -previously stripped -brown -damp -grinding drilling 0 to 2.2m	<input checked="" type="checkbox"/>	1010	▲			SW-SM	◆				0.0
2.0	SILTY SAND WITH GRAVEL (SM) -damp	<input checked="" type="checkbox"/>	1011	●	▲		SM	◆		■		2.0
3.0	SANDY SILT TO SILTY SAND WITH GRAVEL (ML)-(SM) -damp -smoother drilling -no grinding	<input checked="" type="checkbox"/>	1012	●		▲	ML	◆		■		3.0
4.0		<input checked="" type="checkbox"/>	1013	●		▲	SM	◆		■		4.0
4.3	END HOLE @ 4.3m											4.3

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/05

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-465							
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362							
NODWELL B40 L 6" AUGER		LOCATION: 1725+850 3M RT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE				
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲		USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.			20	40		
0.0	ORGANIC										0.0
0.0 - 1.0	SILTY GRAVEL WITH SAND (GM) -brown -damp -grinding starts @ 0.3m		1006	●	▲	GM		◆	■		1.0
1.0 - 2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (SM)-(GM)-(SM) -brown -moist -smoother drilling @ 1.5m		1007	●	▲	SM		◆	■		2.0
2.0 - 3.0			1008	●	▲	GM		◆	■		3.0
3.0 - 4.0			1009	●	▲	SM		◆	■		4.0
4.0 - 4.3	END HOLE @ 4.3m										

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

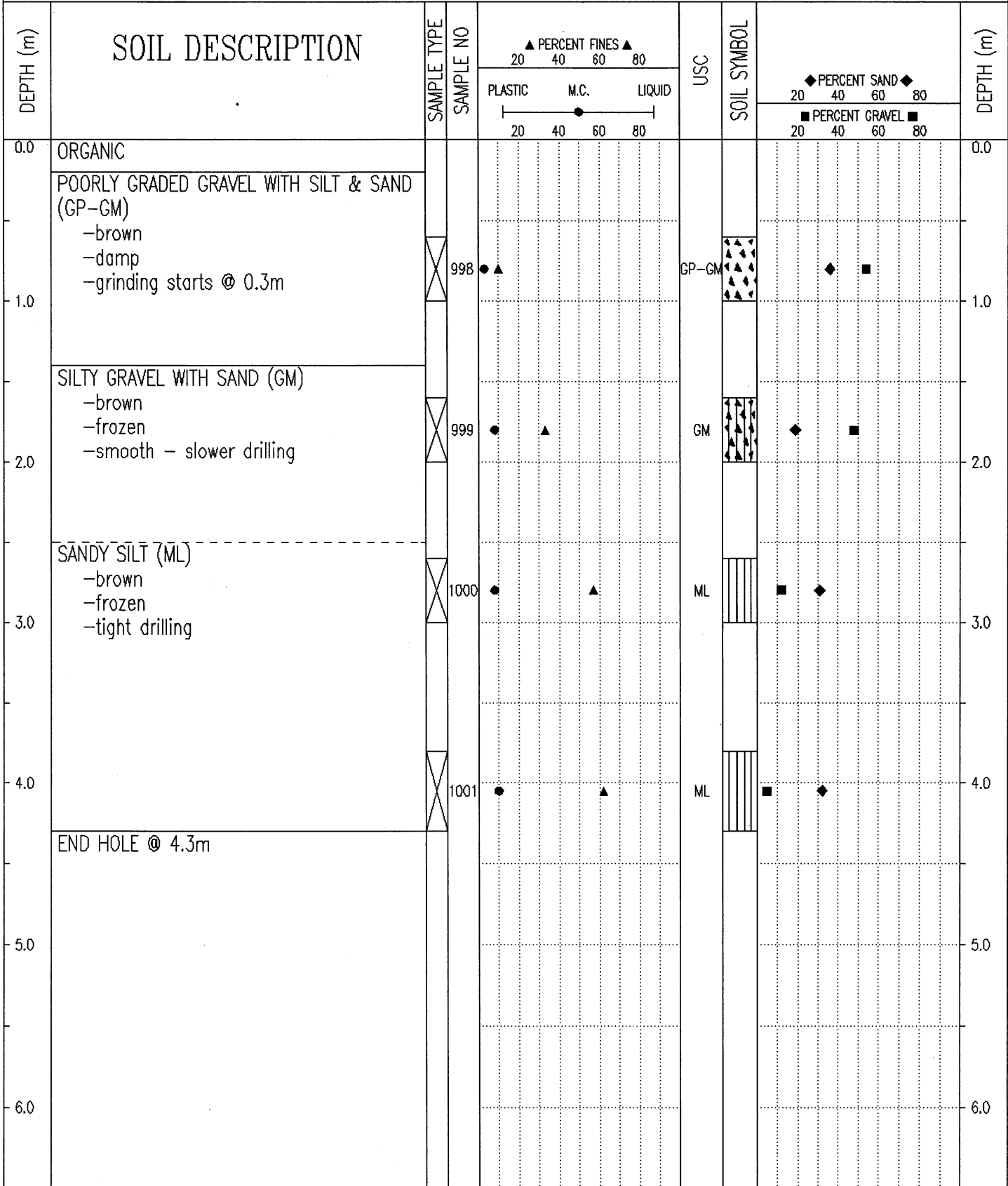
COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/04

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-464								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-D362								
NODWELL B40 L 6" AUGER		LOCATION: 1725+950 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SILT -moist											0.0
1.0	SILTY GRAVEL WITH SAND TO WELL-GRADED SAND WITH SILT & GRAVEL (GM)-(SW-SM) -brown -damp -grinding starts @ 0.5m	<input checked="" type="checkbox"/>	1002	▲			GM	◆	■			1.0
2.0		<input checked="" type="checkbox"/>	1003	▲			SW-SM		■			2.0
3.0		<input checked="" type="checkbox"/>	1004	▲			SW-SM	◆	■			3.0
4.0	SILTY SAND WITH GRAVEL (SM) -brown -damp -smooth drilling	<input checked="" type="checkbox"/>	1005	●	▲		SM		■	◆		4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.3 m						
				REVIEWED BY:		COMPLETE: 01/09/04						
				Fig. No:		Page 1 of 1						

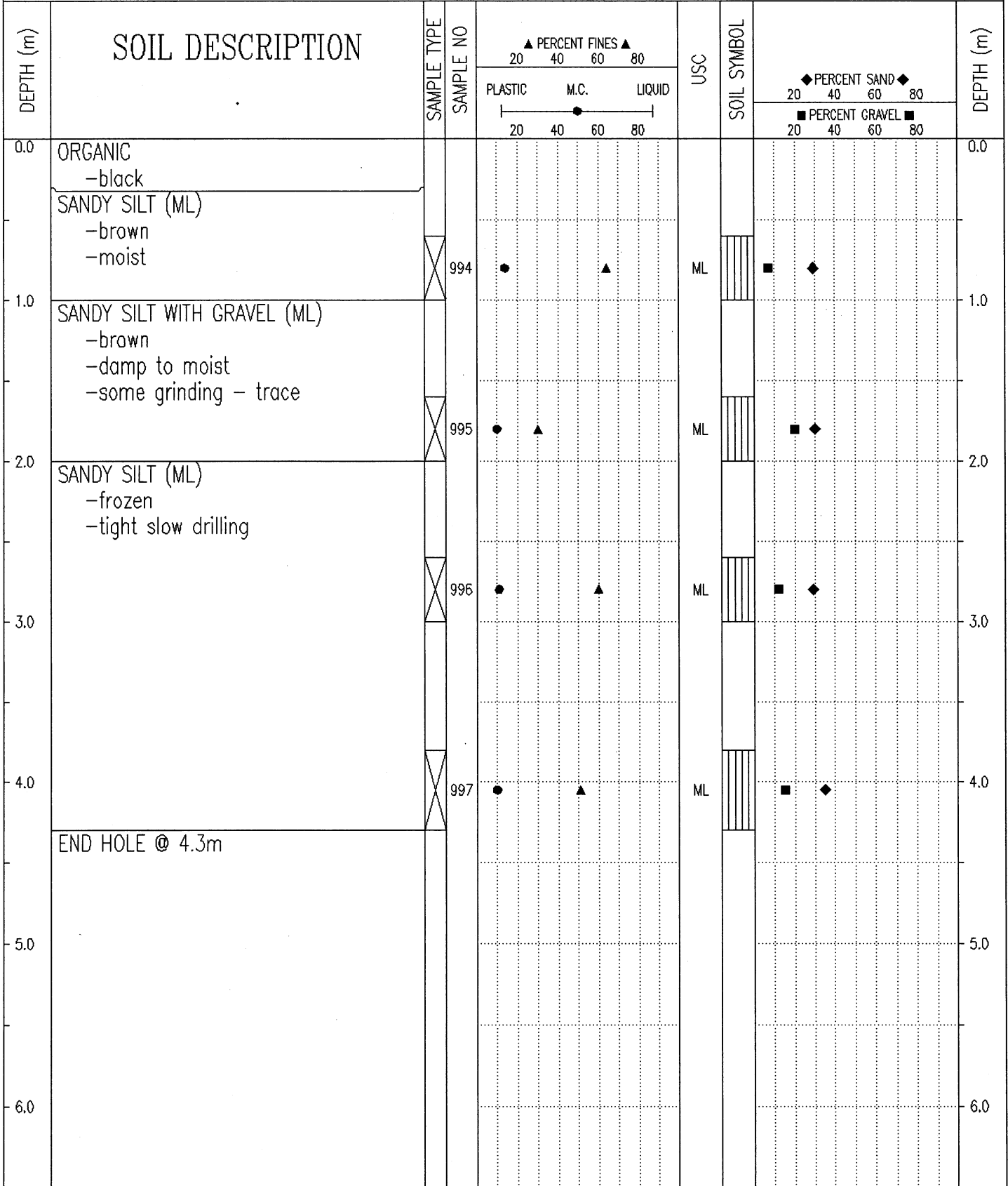
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-463
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0363
NODWELL B40 L 6" AUGER	LOCATION: 1726+050 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/09/04
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 618-461								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1726+150 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black											0.0
1.0	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -moist -easy drilling - very little grinding	<input checked="" type="checkbox"/>	990	●	▲		SM		■	◆		1.0
2.0		<input checked="" type="checkbox"/>	991	●	▲		ML		■	◆		2.0
3.0	-frozen below 2.5m -tight drilling - little grinding below 2.5m	<input checked="" type="checkbox"/>	992	●	▲		ML		■	◆		3.0
4.0		<input checked="" type="checkbox"/>	993	●	▲		ML		■	◆		4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.3 m				
				REVIEWED BY:				COMPLETE: 01/09/04				
				Fig. No:				Page 1 of 1				

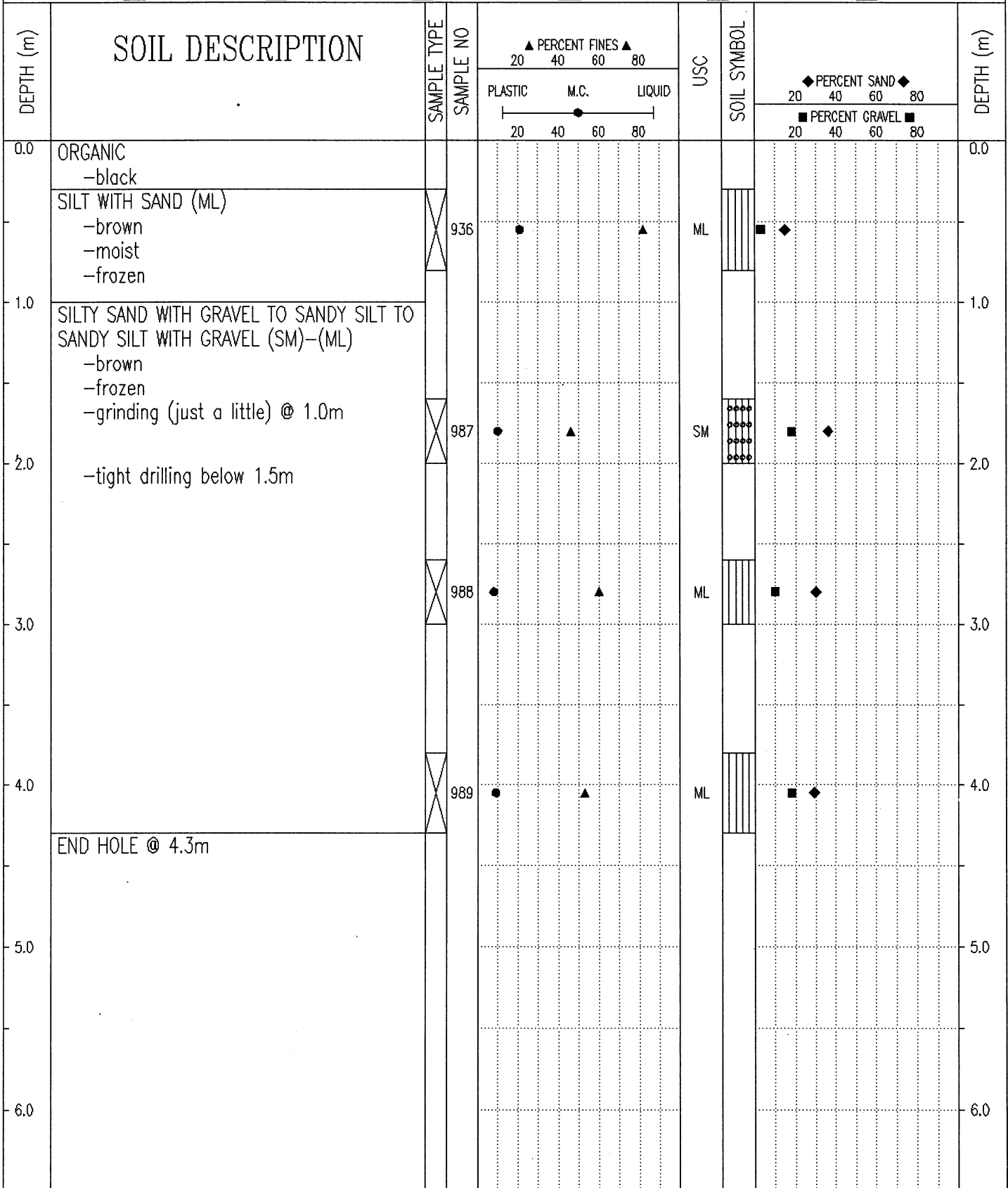
SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-462
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1726+150 15M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
REVIEWED BY:	COMPLETE: 01/09/04
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 618-460
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1726+150 20M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/09/04
	Fig. No:	Page 1 of 1

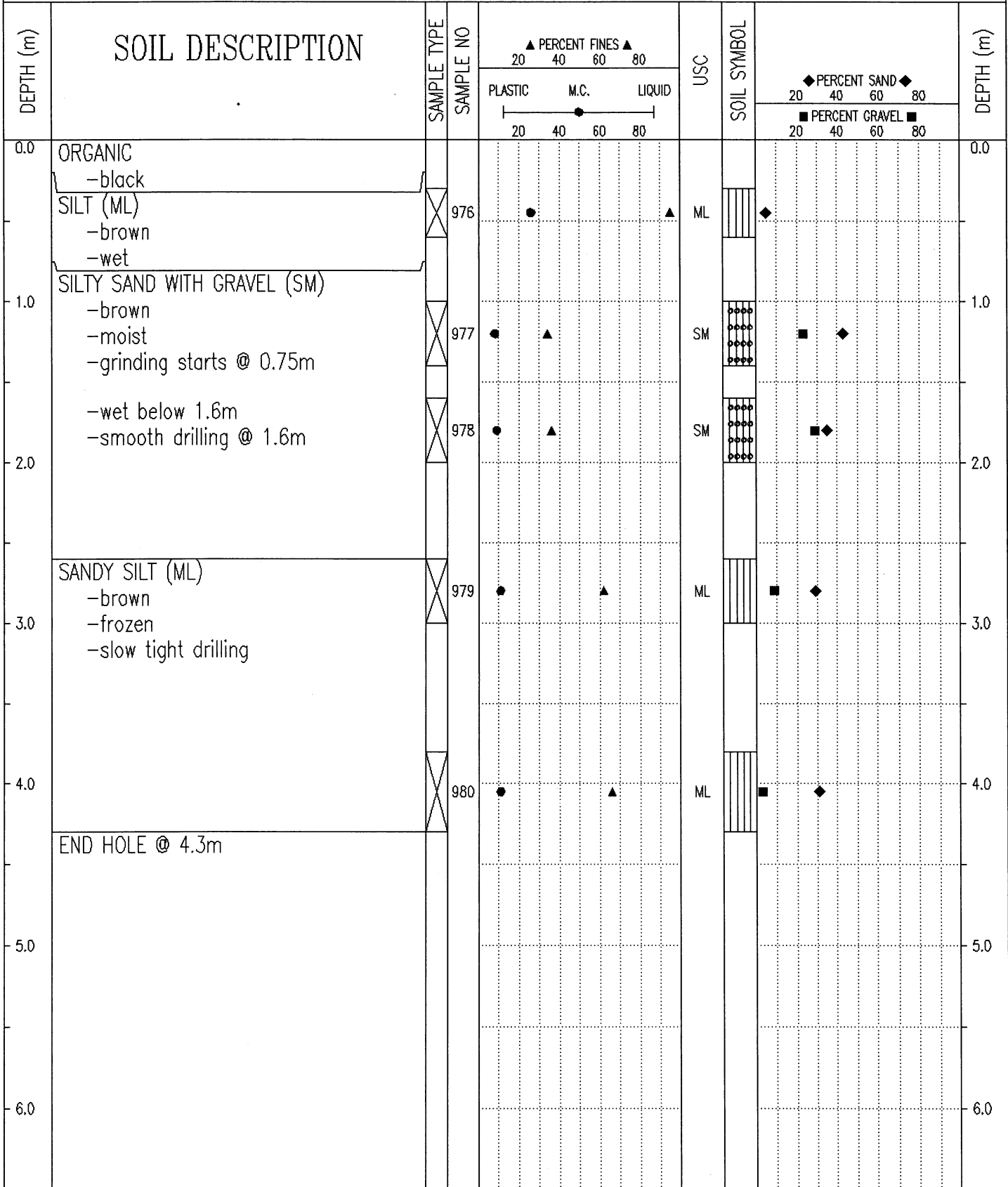
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-459								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0360								
NODWELL B40 L 6" AUGER		LOCATION: 1726+200 2M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
	SANDY SILT (ML) -brown -wet	X	981	●		▲	ML		■	◆		
1.0	SILTY GRAVEL WITH SAND (GM) -brown -moist -grinding starts @ 0.75m	X	982	●	▲		GM	▲▲▲▲		◆	■	1.0
2.0	SILTY SAND TO SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -damp to moist -smoother drilling - some grinding	X	983	●		▲	SM	●●●●	■	◆		2.0
3.0	-tight drilling below 3.0m	X	984	●		▲	SM	●●●●	■	◆		3.0
4.0		X	985	●		▲	ML		■	◆		4.0
5.0	END HOLE @ 3.0m											5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/09/04

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 617-458
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1726+300 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/09/04
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-457								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1726+400 2M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SILT -brown -wet											0.0
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp -grinding starts 0.5m - 1.75m rough	X	972				GP					1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -wet -smooth drilling -sand contamination from above	X	973				SM					2.0
3.0	SILTY SAND TO SANDY SILT (SM)-(ML) -brown -moist -minor grinding -slow drilling below 3.0m -frozen below 3.0m	X	974				SM					3.0
4.0	END HOLE @ 4.3m	X	975				ML					4.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/09/04

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-456						
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362						
NODWELL B40 L 6" AUGER		LOCATION: 1726+500 2M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	PERCENT GRAVEL ■	
0.0	ORGANIC									0.0
	SILT (ML) -brown -wet									
1.0	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM) -brown -damp -rough grinding drilling		969			▲ ML	◆			1.0
			970			▲ GW-GM	◆	■		
2.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -smooth drilling 1.5m - 3.0m									
3.0			971			▲ SM	◆	■		3.0
4.0	END HOLE @ 3.2M -refusal Note: Boulders on surface 0.5-1.5m									4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 3.2 m COMPLETE: 01/09/04				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-455								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1726+600 2M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER								
RETURN		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC & SILT -moist											0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -grinding @ 0.5m - rough -rough drilling below 1.0m	X	965	▲			GP-GM	◆	■			1.0
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -damp -easier drilling - some grinding	X	966	●	▲		SM	◆	■			2.0
3.0		X	967	●	▲		GM	◆	■			3.0
4.0	SILT (ML) -grey -damp -tight drilling very little grinding	X	968	●		▲	ML	◆				4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

COMPLETION DEPTH: 4.3 m

REVIEWED BY:

COMPLETE: 01/09/04

Fig. No:

Page 1 of 1



SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-454								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1726+705 20M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC SILT (ML) -brown -wet		962				ML				0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -grey brown -wet to saturated below 0.75-1.0m -grinding starts @ 0.75m -frozen 1.0-1.6m -damp to moist below 1.6-2.1m -medium to smooth grinding 1.3-2.1m		963				SM				1.0	
2.0	SANDY SILT (ML) -frozen -slow penetration		964				ML				2.0	
3.0	END HOLE @ 3.3m -refusal Note: Lots of water killed spruce LHS.										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 3.3 m

COMPLETE: 01/09/04

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-453								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0360								
NODWELL B40 L 6" AUGER		LOCATION: 1726+705 20M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC & SILT MIX											0.0
0.0 - 1.0	SILTY GRAVEL WITH SAND (GM) -grey -saturated -start grinding @ 0.5m		958	▲			GM	◆	■			1.0
1.0 - 2.0	SILTY SAND WITH GRAVEL (SM) -frozen -medium grinding		959	●	▲		SM	◆	■			2.0
2.0 - 3.0			960	●	▲		SM	◆	■			3.0
3.0 - 4.0	SANDY SILT (ML) -frozen -smoother drilling		961	●	▲		ML	◆	■			4.0
4.0 - 6.0	END HOLE @ 4.3m											6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/09/04

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-451								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1726+800 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC SILTY SAND (SM) -brown -wet										0.0	
1.0		X	950	●	▲		SM	■	◆		1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -grinding starts @ 1.5m	X	951	●▲			SM	■	◆		2.0	
3.0	SANDY SILT TO SANDY SILT WITH GRAVEL (ML) -brown -frozen -no grinding, smooth, tight penetration	X	952	●	▲		ML	■	◆		3.0	
4.0		X	953	●	▲		ML	■	◆		4.0	
5.0	END HOLE @ 4.3m										5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/31

Page 1 of 1

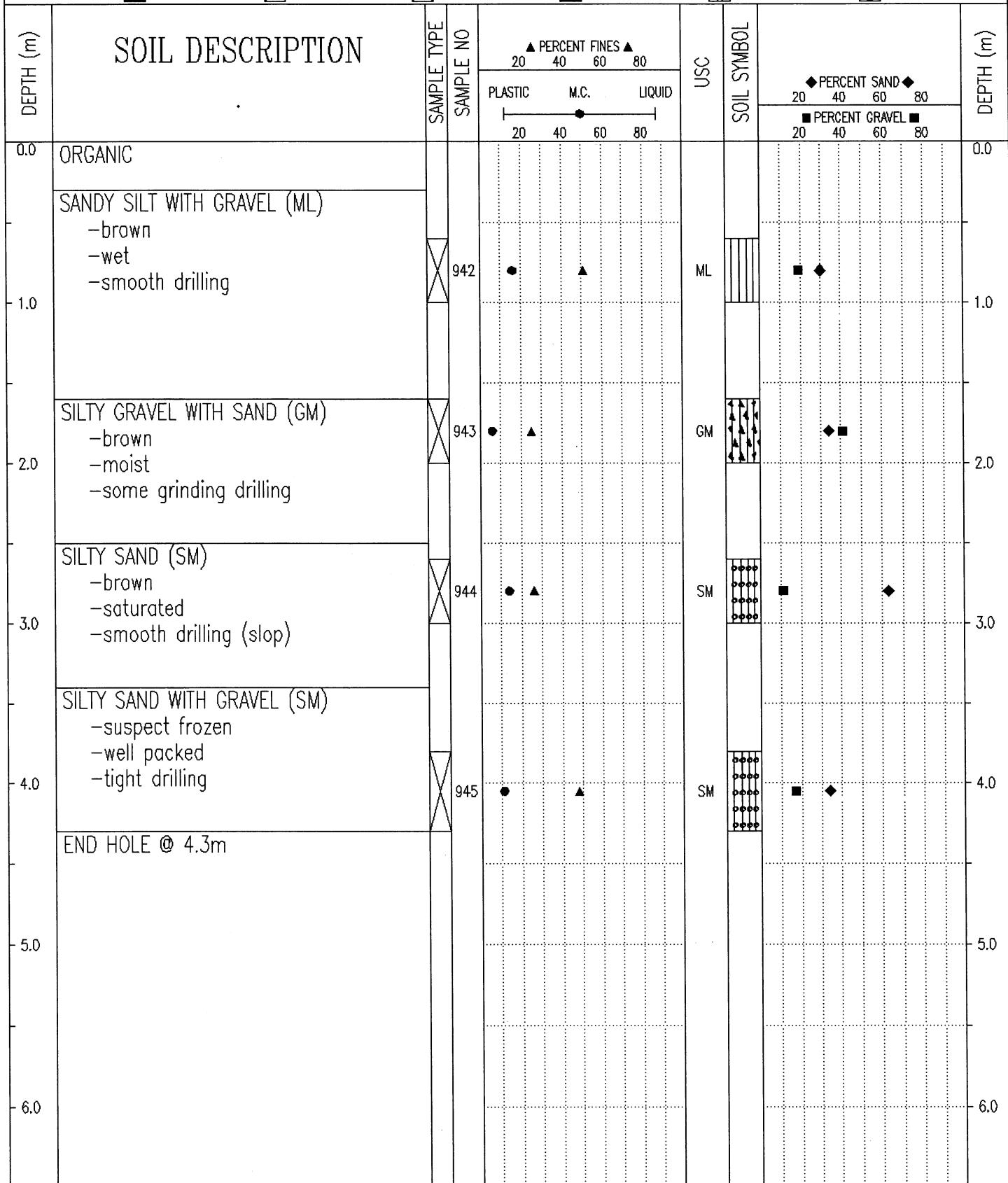
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-450								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1726+900 5M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
0.0 - 1.0	SILT WITH SAND (ML) -brown -frozen below 0.3m -slow penetration		946				ML				1.0	
1.0 - 2.0	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -frozen -grinding drilling starts @ 1.3m -still slow penetration -not heavy grinding		947				SM				2.0	
2.0 - 3.0			948				ML				3.0	
3.0 - 4.0	SANDY SILT (ML) -brown-grey -frozen -smoother drilling -very tight drilling		947				ML				4.0	
4.0 - 5.0	END HOLE @ 4.3m Note: water lying on surface in area near this testhole -Lots of dead leaning spruce L.H.S.										5.0	
5.0 - 6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/31

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 617-449
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1727+000 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
		<input type="checkbox"/> BULK
		<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

COMPLETION DEPTH: 4.3 m

REVIEWED BY:

COMPLETE: 01/08/31

Fig. No:

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-448								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1727+100 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE		
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND		PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC											0.0
0.0 - 0.8	GRAVELLY SILT WITH SAND (ML) -brown -wet	X	938	●	▲		ML		◆	■		0.8
0.8 - 2.0	SILT WITH SAND (SM) -brown -damp (possibly frozen) -grinding @ 0.8m	X	939	●	▲		SM	●●●●●		■	◆	2.0
2.0 - 3.4	SILTY SAND (SM) -brown -damp -smoother drilling @ 1.8m	X	940	●	▲		SM	●●●●●		■	◆	3.4
3.4 - 4.3	SILTY SAND WITH GRAVEL (SM) -brown -damp	X	941	●	▲		SM	●●●●●		■	◆	4.3
4.3 - 6.0	END HOLE @ 4.3m											6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/31

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-447							
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362							
NODWELL B40 L 6" AUGER		LOCATION: 1727+200 3M RT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		RETURN		S.P.T.							
AUGER		BULK		TUBE							
CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANICS -black										0.0
	ASH										
	SILT (ML) -brown -moist		934				ML				1.0
	POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp -grinding @ 1.3m		935				GP				2.0
	SILTY SAND WITH GRAVEL (SM) -brown -damp -easy drilling - grinding -smoother drilling below 1.5m		936				SM				3.0
	-tight drilling below 4.0m		937				SM				4.0
	END HOLE @ 4.3m										
											5.0
											6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.3 m					
				REVIEWED BY:		COMPLETE: 01/08/31					
				Fig. No:				Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-446								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1727+325 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	MIXTURE OF SILT & ORGANIC -moist -smooth drilling											0.0
1.0	SANDY SILT WITH GRAVEL (ML) -brown -wet		931	●	▲		ML	■	◆			1.0
2.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -grinding drilling		932	▲			GP-GM	◆	■			2.0
3.0												3.0
4.0	SANDY SILT (ML) -brown -moist -quiet, smooth drilling		933	●	▲		ML	■	◆			4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0

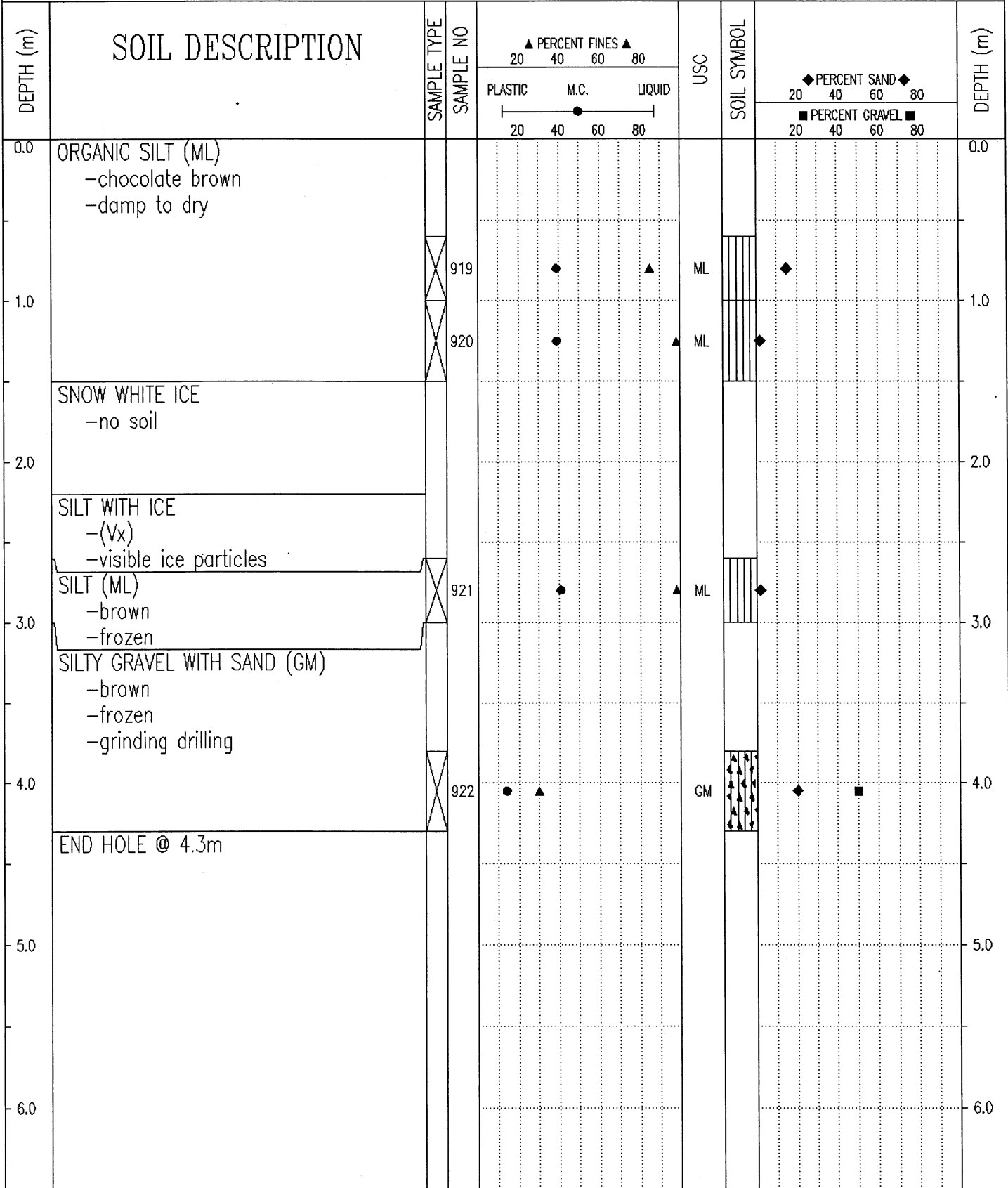
Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/31

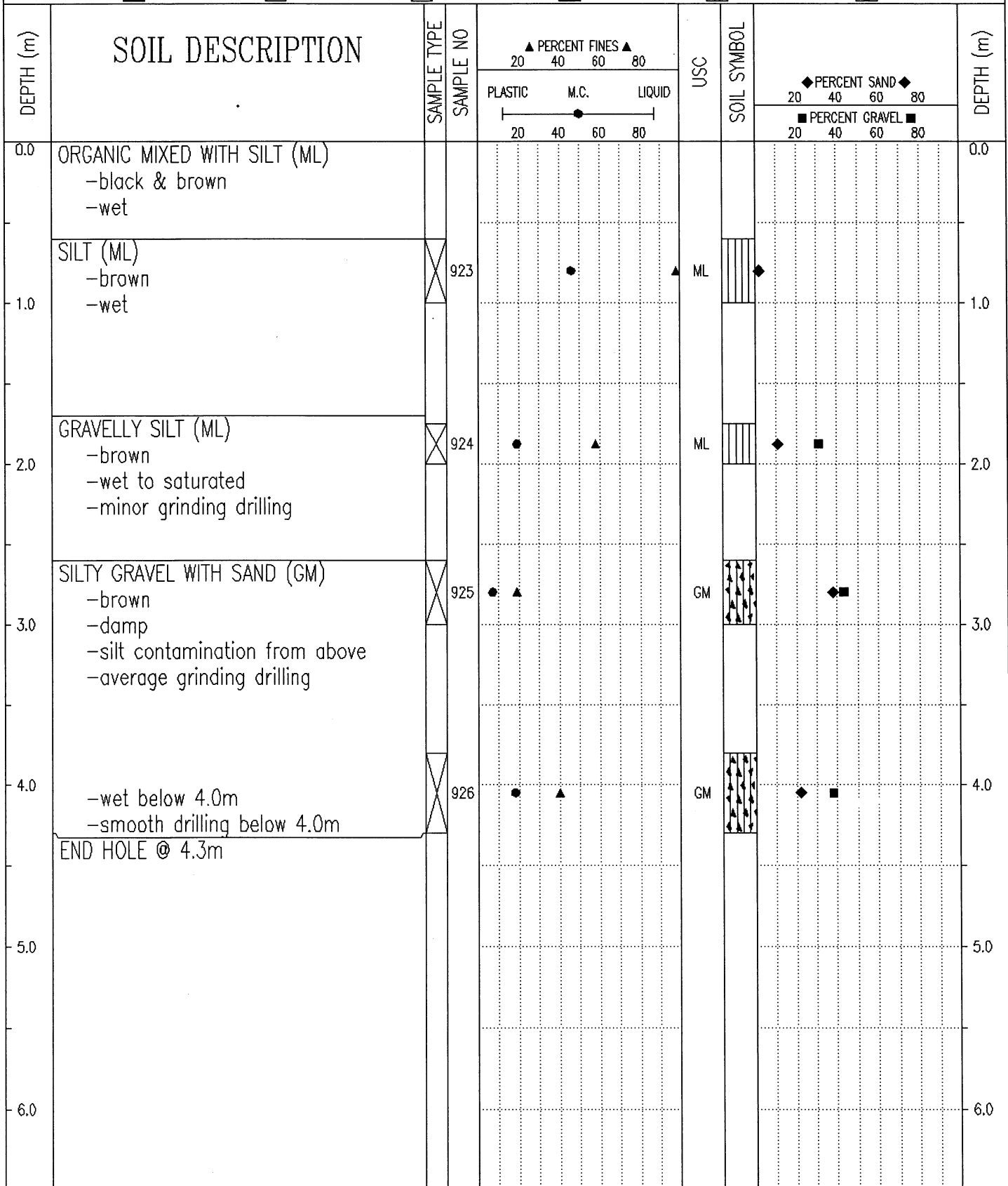
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-445						
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362						
NODWELL B40 L 6" AUGER		LOCATION: 1727+400 3M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	MIXURE OF ORGANIC, WOOD & SILT -wet									0.0
1.0	SILT (ML) -brown -moist -smooth drilling  -wet below 1.5m	<input checked="" type="checkbox"/>	927			ML				1.0
2.0		<input checked="" type="checkbox"/>	928			ML				2.0
3.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY GRAVEL WITH SAND (GP-GM)-(GM) -brown -damp -grinding @ 2.0m  -rough drilling below 3.0m	<input checked="" type="checkbox"/>	929			GP-GM				3.0
4.0		<input checked="" type="checkbox"/>	930			GM				4.0
5.0	END HOLE @ 4.3m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.3 m				
				REVIEWED BY:		COMPLETE: 01/08/31				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 617-443
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1727+450 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



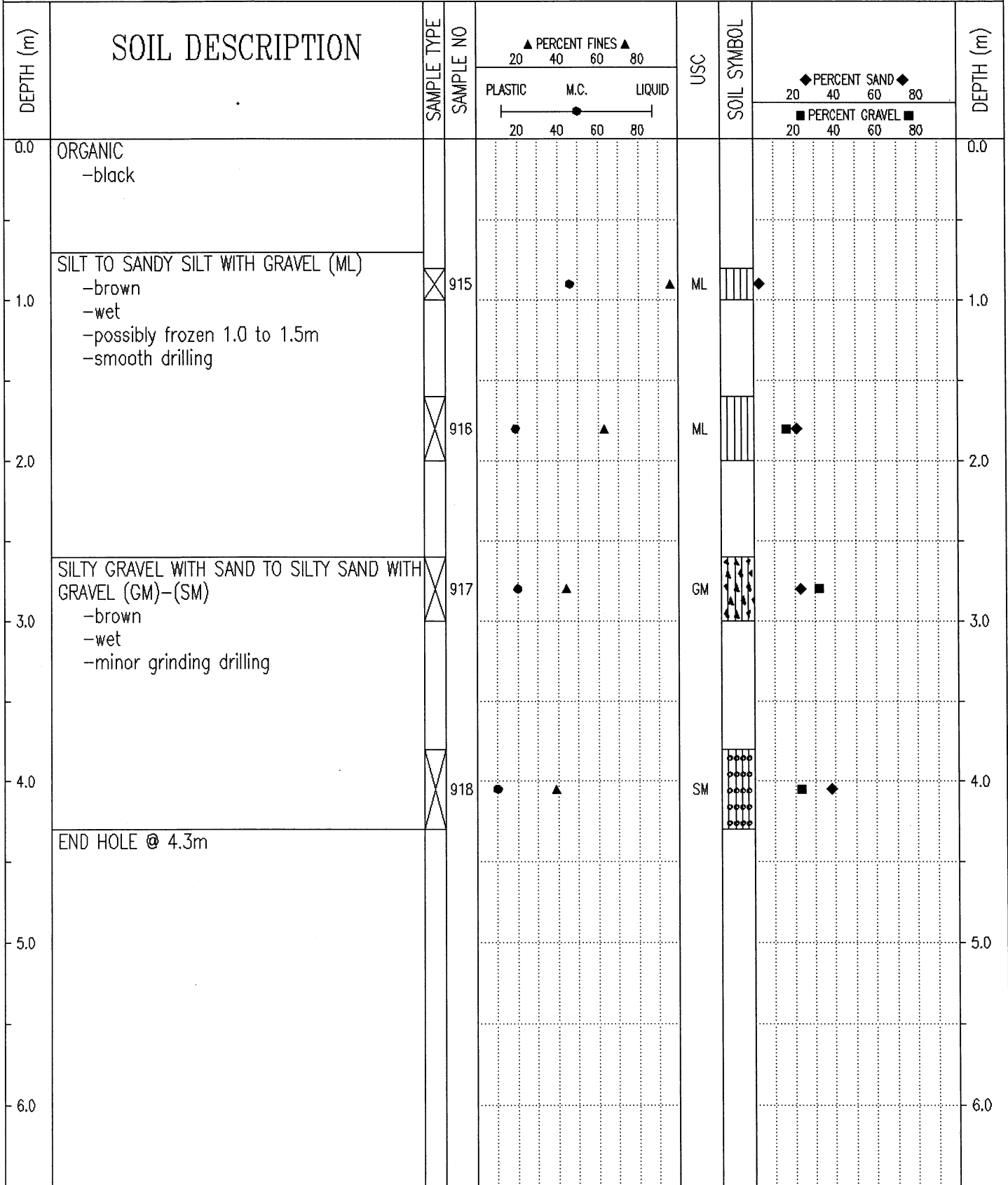
Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/08/31
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 617-444
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1727+500 2M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/08/31
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 617-442
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1727+550 3M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/08/31
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-441									
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362									
NODWELL B40 L 6" AUGER		LOCATION: 1727+650 2M LT		ELEVATION: 0.00 (m)									
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE			
DEPTH (m)	<b>SOIL DESCRIPTION</b>											DEPTH (m)	
			SAMPLE TYPE		SAMPLE NO		▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80		USC		◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80		
	0.0	ORGANIC											0.0
	0.0 - 1.0	SILT WITH SAND (ML) -olive -moist -smooth drilling											1.0
	1.0 - 2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -damp -some grinding drilling											2.0
2.0 - 3.0											3.0		
3.0 - 4.0											4.0		
4.0 - 5.0											5.0		
5.0 - 6.0											6.0		
4.0	END HOLE @ 4.0m -refusal										4.0		
Government of Yukon Transportation Engineering								LOGGED BY: G.C.		COMPLETION DEPTH: 4.0 m			
								REVIEWED BY:		COMPLETE: 01/08/30			
								Fig. No:		Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-440							
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362							
NODWELL B40 L 6" AUGER		LOCATION: 1727+750 2M LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE	
SOIL DESCRIPTION		SAMPLE TYPE		SAMPLE NO		PERCENT FINES		USC		SOIL SYMBOL	
DEPTH (m)						▲ PERCENT FINES ▲				◆ PERCENT SAND ◆	
						20 40 60 80				20 40 60 80	
						PLASTIC M.C. LIQUID				■ PERCENT GRAVEL ■	
						20 40 60 80				20 40 60 80	
0.0	ORGANIC SILTY SAND (SM) -olive -moist -smooth easy drilling	X	907	●	▲		SM	◻	■	◆	0.0
1.0		X	908	●	▲		SM	◻	■	◆	1.0
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -olive -damp -rough grinding drilling 2.0-2.5m	X	909	●	▲		SM	◻	■	◆	2.0
3.0		X	910	●	▲		GM	◻	■	◆	3.0
4.0	END HOLE @ 4.3m										4.0
5.0											5.0
6.0											6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

COMPLETION DEPTH: 4.3 m

REVIEWED BY:

COMPLETE: 01/08/30

Fig. No:

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-439									
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362									
NODWELL B40 L 6" AUGER		LOCATION: 1727+850 2M LT		ELEVATION: 0.00 (m)									
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE						
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)			
				PLASTIC	M.C.			LIQUID	20		40	60	80
0.0	ORGANIC SANDY SILT (ML) -brown -moist -smooth drilling		903	20	40	60	80	ML	20	40	60	80	0.0
1.0													1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -minor grinding -easy drilling		904	20	40	60	80	SM	20	40	60	80	2.0
3.0	SILTY SAND TO SILTY SAND WITH GRAVEL (SM) -damp		905	20	40	60	80	SM	20	40	60	80	3.0
4.0			906	20	40	60	80	SM	20	40	60	80	4.0
5.0	END HOLE @ 4.3m												5.0
6.0													6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/30

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-438								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1727+950 2M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
0.0 - 1.0	SILT WITH SAND (ML) -brown -damp -smooth easy drilling		899				ML					1.0
1.0 - 2.0			900				ML					2.0
2.0 - 3.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -some grinding (little) -easy drilling		901				SM					3.0
3.0 - 4.0			902				SM					4.0
4.0 - 6.0	END HOLE @ 4.3m Note: this testhole in the same depression as TH # 437											5.0
												6.0

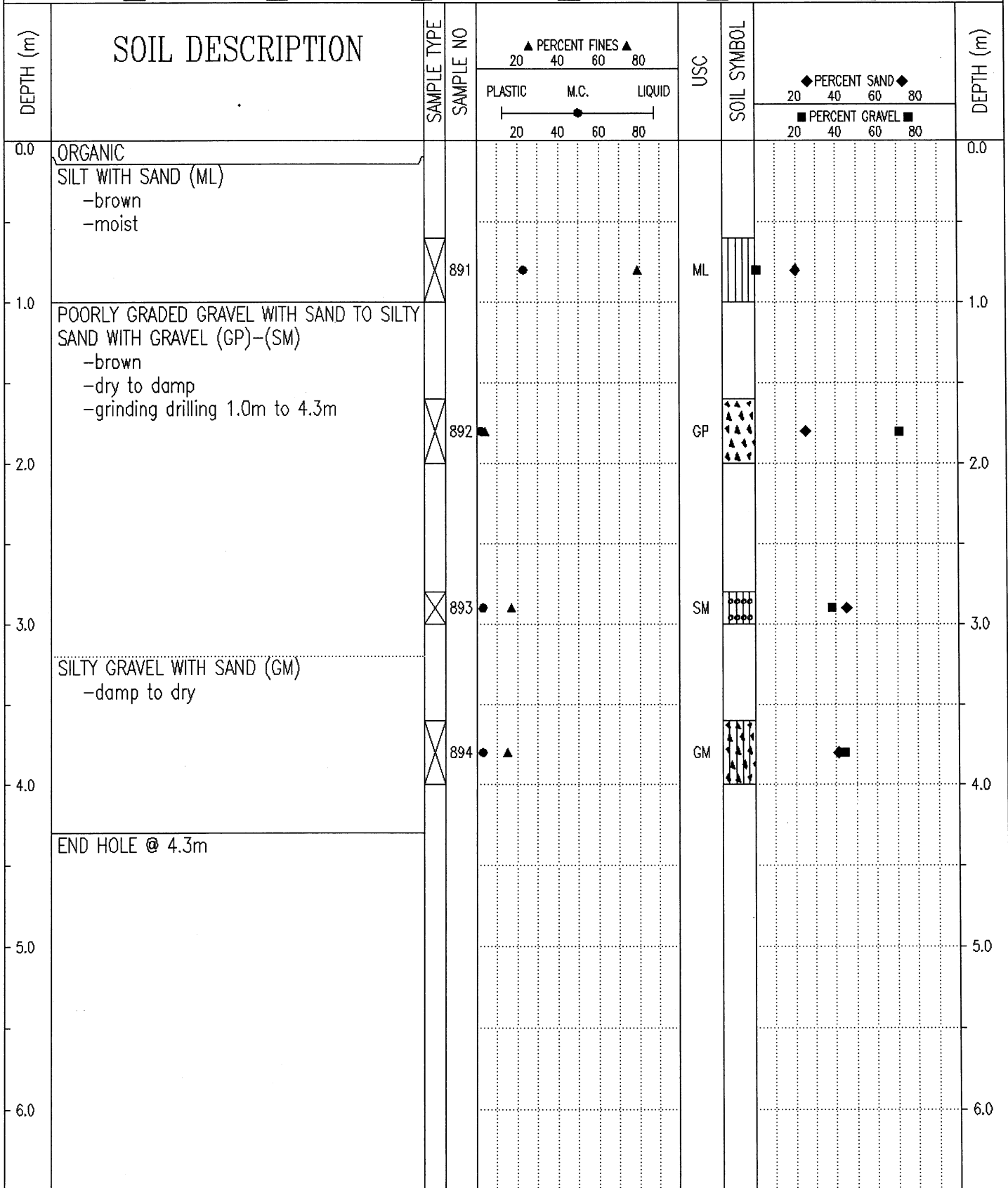
Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/30

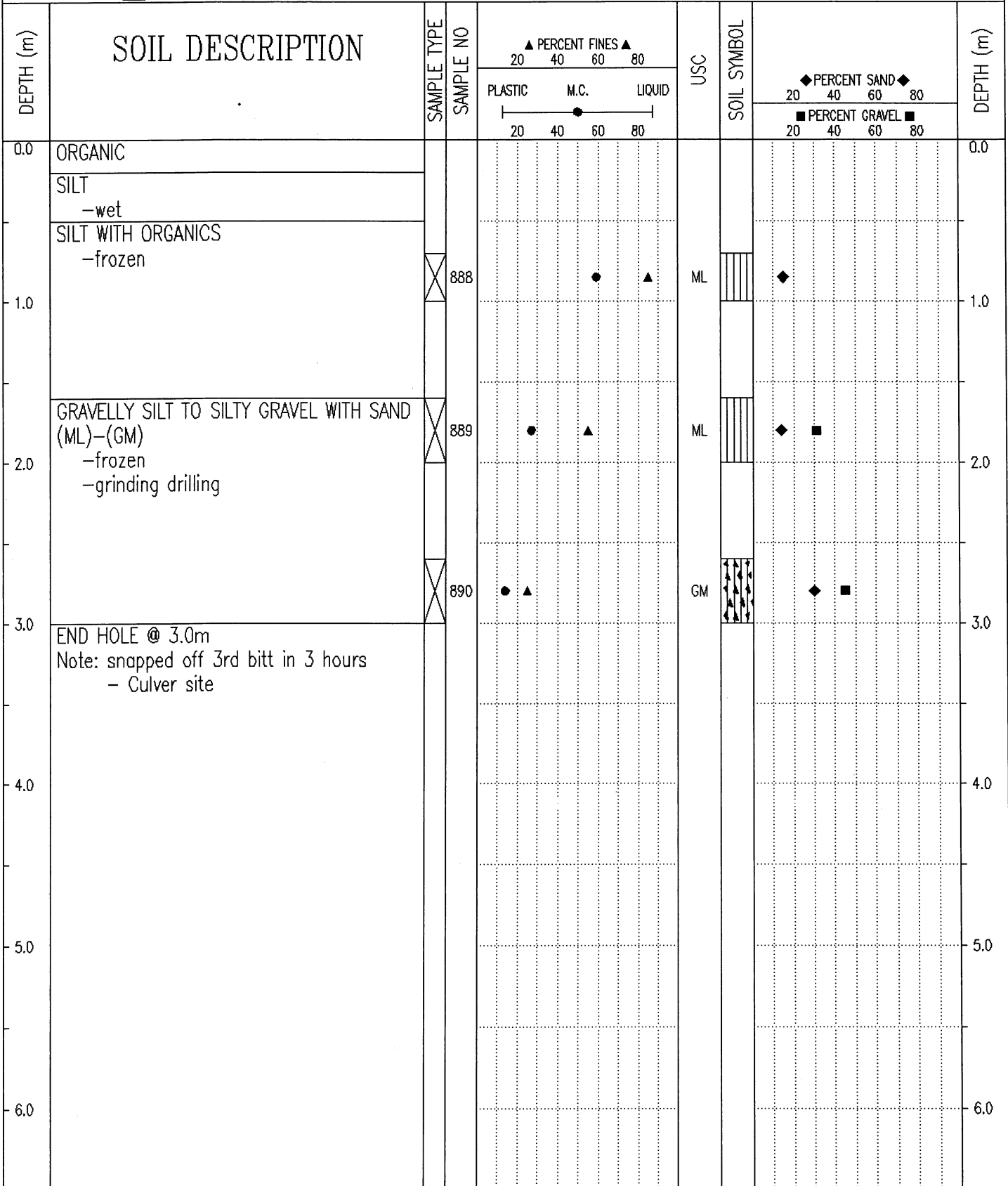
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 10		TEST HOLE NO: 617-437								
ENGINEERING CAPITAL		R.O.W. TESTING		Project No: 092-202101-0362								
NODWELL B40 L 6" AUGER		LOCATION: 1728+030 5M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SANDY SILT (ML) -brown -moist -smooth easy drilling											0.0
1.0			895				ML					1.0
2.0			896				ML					2.0
3.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -wet -some grinding @ 2.6m -easy drilling below 3.0m		897				SM					3.0
4.0			898				GM					4.0
5.0	END HOLE @ 4.3m Note: drilled this site because 1.5m depression											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY:		COMPLETION DEPTH: 4.3 m COMPLETE: 01/08/30		Fig. No:				Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 617-436
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1728+075 3M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



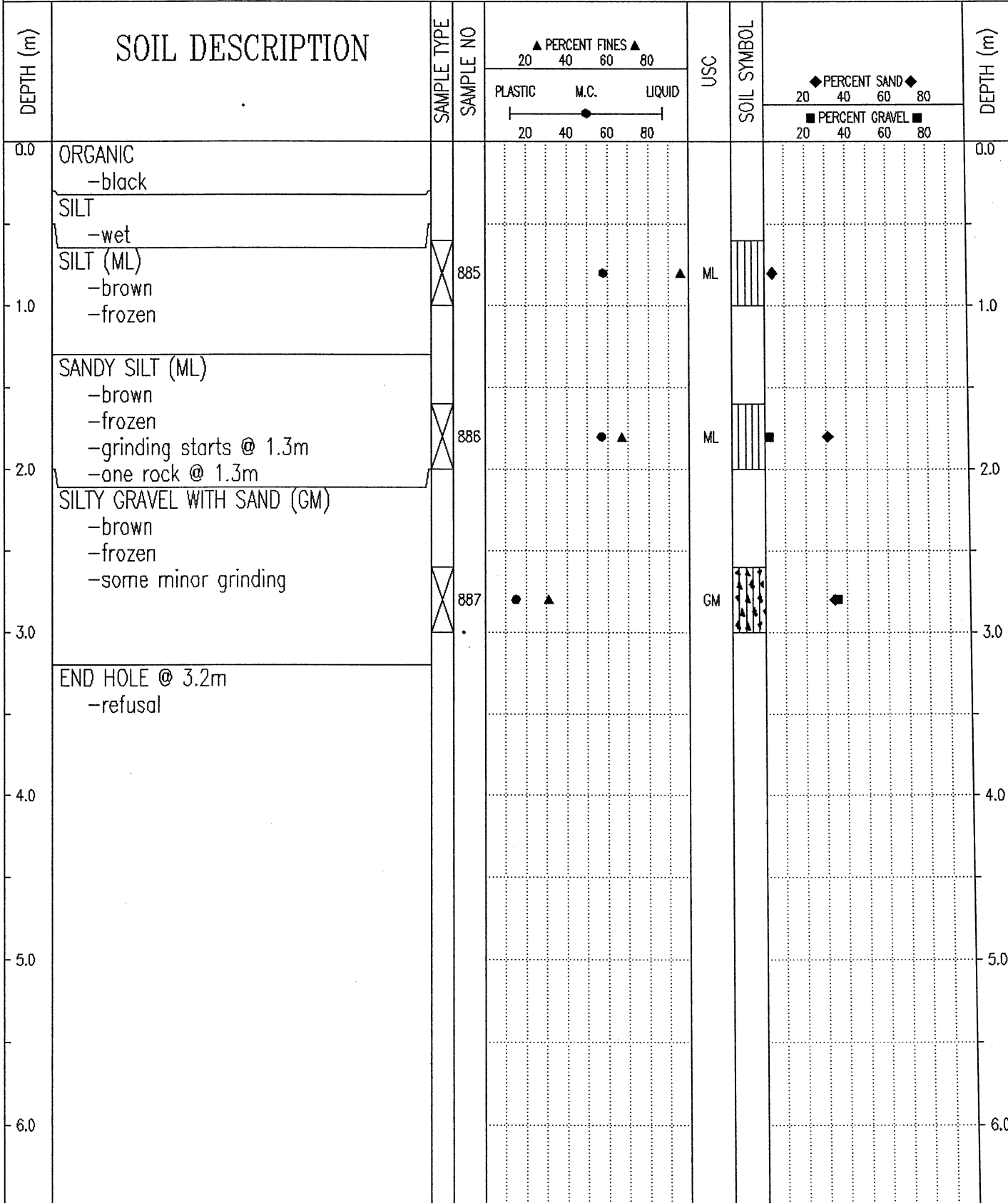
Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/08/30
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 10	TEST HOLE NO: 617-435
ENGINEERING CAPITAL	R.O.W. TESTING	Project No: 092-202101-0362
NODWELL B40 L 6" AUGER	LOCATION: 1728+120 20M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 01/08/30
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11	TEST HOLE NO: 616-434
ENGINEERING CAPITAL			Project No: 092-202101-0361
MOBILE B40 L 6" AUGER		LOCATION: 1728+125 CENTRELINE	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
		<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

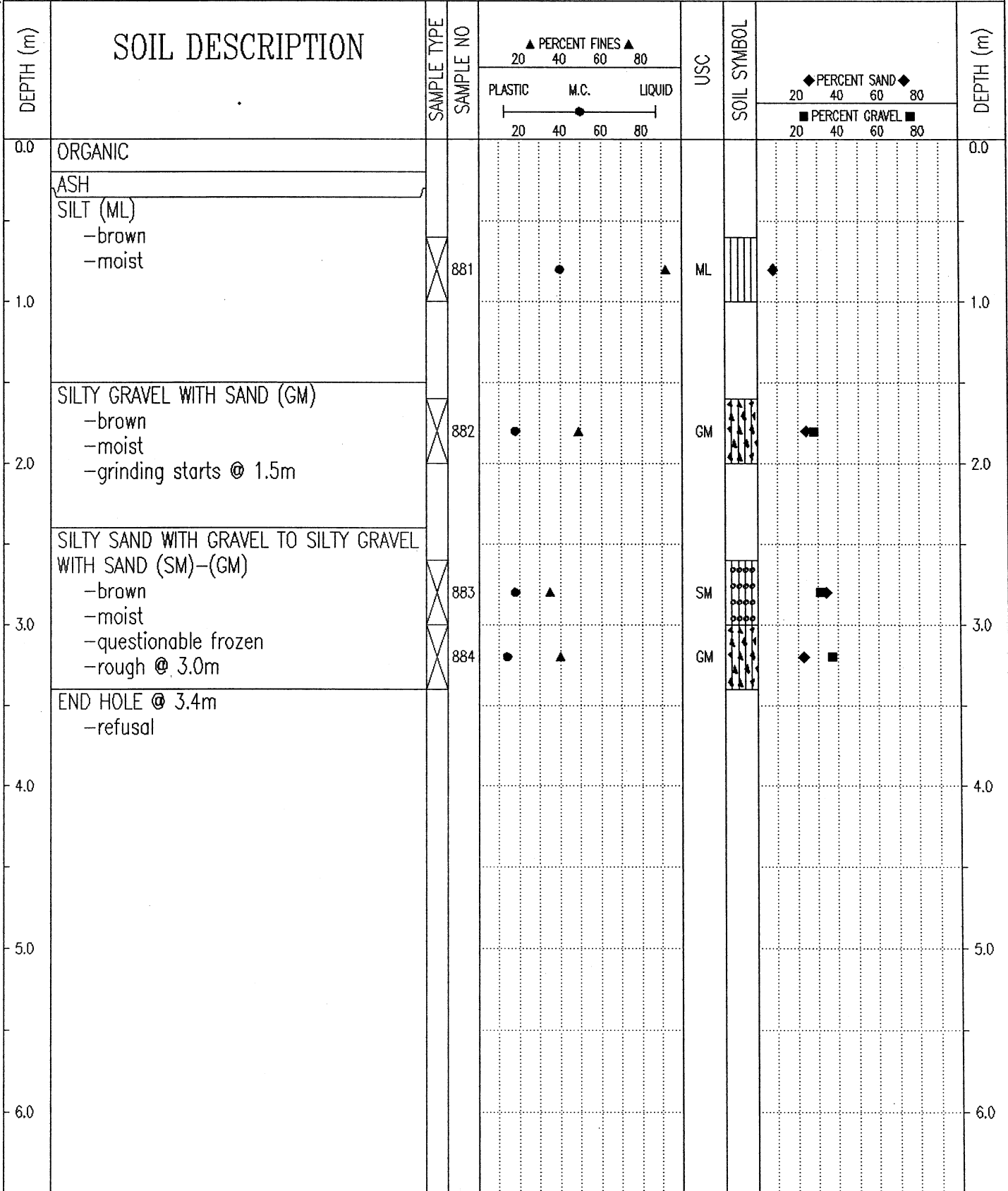
COMPLETION DEPTH: 3.2 m  
COMPLETE: 01/08/30

SUBSURFACE EXPLORATION & TESTING REPORT      SHAKWAK SEG 11      TEST HOLE NO: 616-433

ENGINEERING CAPITAL      Project No: 092-202101-0361

MOBILE B40 L 6" AUGER      LOCATION: 1728+140 20M RT      ELEVATION: 0.00 (m)

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.      COMPLETION DEPTH: 3.4 m  
 REVIEWED BY:      COMPLETE: 01/08/30  
 Fig. No:      Page 1 of 1

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-432								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1728+200 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND & GRAVEL			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT SAND	PERCENT GRAVEL		
0.0	ORGANIC										0.0	
	SILT (ML) -brown -wet											
1.0	SILT WITH SAND (ML) -frozen	X	877				ML				1.0	
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -frozen -grinding starts @ 2.0m -good penetration	X	878				ML				2.0	
3.0		X	879				SM				3.0	
4.0		X	880				GM				4.0	
4.0	END HOLE @ 4.0m Note: water ponding in depression on LHS -burls in bush -water killed trees -legs on Nodwell sinking when lifting augers from testhole											
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/30

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-429			
ENGINEERING CAPITAL				Project No: 092-202101-0361			
MOBILE B40 L 6" AUGER		LOCATION: 1728+327 CENTRELINE		ELEVATION: 0.00 (m)			
SAMPLE TYPE		RETURN		S.P.T.			
		AUGER		BULK			
		TUBE		CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	USC SOIL SYMBOL	PERCENT SAND ◆ 20 40 60 80 PERCENT GRAVEL ■ 20 40 60 80	DEPTH (m)
0.0	ORGANIC						0.0
	SILT						
	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -damp -grinding starts @ 0.75m	X	865	▲ 20 40 60 80 ● 20 40 60 80	SW-SM	◆ 20 40 60 80 ■ 20 40 60 80	1.0
	SILTY SAND (ML) -brown -moist -no grinding	X	866	● 20 40 60 80 ▲ 20 40 60 80	ML	◆ 20 40 60 80 ■ 20 40 60 80	2.0
	SILTY SAND WITH GRAVEL (SM) -brown -moist -grinding @ 2.8m (minor) -actually smooth easy penetration	X	867	● 20 40 60 80 ▲ 20 40 60 80	SM	◆ 20 40 60 80 ■ 20 40 60 80	3.0
	SILTY SAND WITH GRAVEL (SM) -brown -moist -grinding @ 2.8m (minor) -actually smooth easy penetration	X	868	● 20 40 60 80 ▲ 20 40 60 80	SM	◆ 20 40 60 80 ■ 20 40 60 80	4.0
	END HOLE @ 4.3m						
5.0							5.0
6.0							6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/29

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-430								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1728+327 15M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
				TUBE								
				CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
	SILTY GRAVEL WITH SAND (GM) -brown -moist	X	869	●	▲		GM	▲▲▲▲	◆	■		
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -medium grinding easy penetration to end of hole	X	870	●			GP-GM	▲▲▲▲	◆	■		
2.0	SILTY SAND WITH GRAVEL (SM) -brown -moist											
3.0		X	871	●▲			SM	○○○○	◆	■		
4.0		X	872	●▲			SM	○○○○	◆	■		
	END HOLE @ 4.3m											
5.0												
6.0												

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/30

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-431								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1728+327 15M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SILTY GRAVEL WITH SAND (GM) -brown -damp -easy smooth drilling minor grinding	X	873	▲			GM	◆	■		0.0	
1.0	WELL-GRADED SAND WITH GRAVEL (SW) -brown -damp	X	874	▲			SW	◆	■		1.0	
2.0	SANDY SILT (ML) -brown -wet -smooth easy drilling	X	875	●	▲		ML	◆	■		2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -moist to wet	X	876	●	▲		SM	◆	■		3.0	
4.0	END HOLE @ 4.3m										4.0	
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

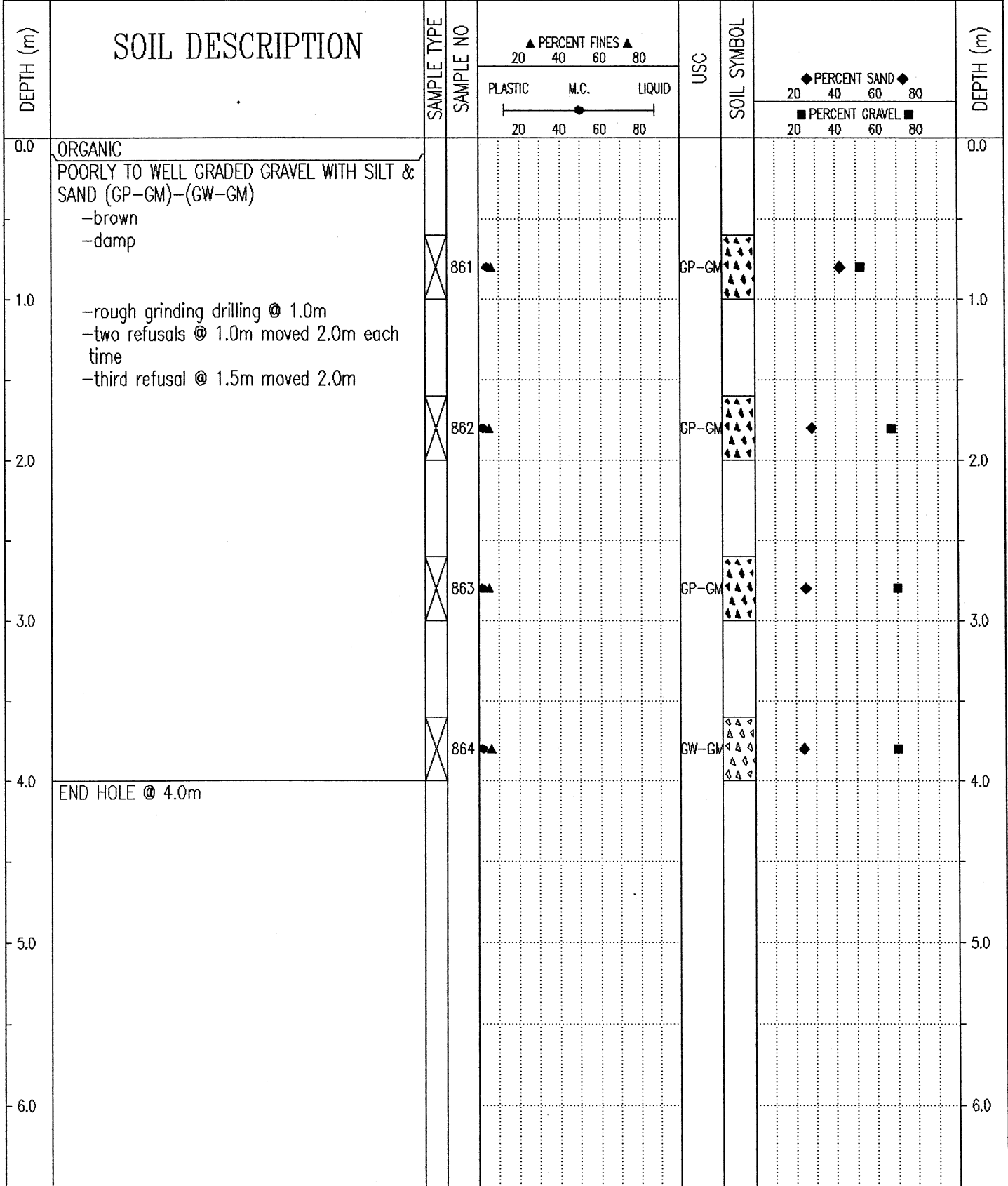
COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/30

SUBSURFACE EXPLORATION & TESTING REPORT      SHAKWAK SEG 11      TEST HOLE NO: 616-428

ENGINEERING CAPITAL      Project No: 092-202101-0361

MOBILE B40 L 6" AUGER      LOCATION: 1728+390 2M LT      ELEVATION: 0.00 (m)

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.0 m  
COMPLETE: 01/08/29

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-427								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1728+500 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC										0.0	
	WELL TO POORLY GRADED GRAVEL WITH SILT & SAND (GW-GM)-(GP-GM)											
	-brown											
	-damp											
	-grinding @ 0.5m											
1.0	-rough drilling @ 1.0m		857				GW-GM				1.0	
	-two refusals @ 1.5m - moved 2.0m each time											
2.0			858				GP-GM				2.0	
3.0	SILTY SAND WITH GRAVEL (SM)		859				GP-GM				3.0	
	-damp to moist											
	-easier penetration											
4.0			860				SM				4.0	
	-more sand & slightly more H2O											
	END HOLE @ 4.3m											

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.      COMPLETION DEPTH: 4.3 m  
REVIEWED BY:      COMPLETE: 01/08/29  
Fig. No:      Page 1 of 1

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-426								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1728+615 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC WELL-GRADED GRAVEL WITH SILT & SAND TO WELL TO POORLY GRADED GRAVEL WITH SAND (GW-GM)-(GW)-(GP) -brown -damp -hard grinding @ 0.5m -rough drilling											0.0
1.0		X	853				GW-GM	▲▲▲▲	◆	■		1.0
2.0		X	854				GW	▲▲▲▲	◆	■		2.0
3.0	-poor recovery for sample # 855	X	855				GP	▲▲▲▲	◆	■		3.0
4.0	SILTY SAND WITH GRAVEL (SM) -wet -easier drilling below 3.2m	X	856	●	▲		SM	○○○○	◆	■		4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY:		COMPLETION DEPTH: 4.3 m COMPLETE: 01/08/29		Fig. No:		Page 1 of 1		

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-425								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1728+725 5M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp											0.0
1.0			849				GP					1.0
2.0	-rough drilling @ 1.5m SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -moist		850				SM					2.0
3.0			851				GM					3.0
4.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -dry		852				GP-GM					4.0
5.0	END HOLE @ 4.4m											5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.4 m  
COMPLETE: 01/08/29

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-424									
ENGINEERING CAPITAL				Project No: 092-202101-0361									
MOBILE B40 L 6" AUGER		LOCATION: 1728+840 3M LT		ELEVATION: 0.00 (m)									
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE													
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40	60		80
				20	40	60	80		20	40	60	80	
				20	40	60	80		20	40	60	80	
0.0	ORGANIC -black ASH SILT -dry												0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY SAND WITH GRAVEL TO WELL-SAND WITH SILT & GRAVEL (GP-GM)-(SM)-(SW-SM) -grey -dry -start grinding @ 0.6m (minor) -difficult to obtain representative sample	X	846	●▲				GP-GM	◆		■		1.0
2.0	-silt contamination - poor sample	X	847	●▲				SM		◆	■		2.0
3.0		X	848	●▲				SW-SM		◆	■		3.0
4.0	END HOLE @ 3.6m -refusal												4.0
5.0													5.0
6.0													6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.6 m  
COMPLETE: 01/08/29

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-423							
ENGINEERING CAPITAL				Project No: 092-202101-0361							
MOBILE B40 L 6" AUGER		LOCATION: 1728+925 2M LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		S.P.T.		AUGER							
RETURN		BULK		TUBE							
CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC									0.0	
0.0 - 1.0	SANDY SILT (ML) -damp to moist -smooth drilling						ML				
1.0		X	842	20	40	60				1.0	
2.0	POORLY GRADED GRAVEL WITH SAND TO WELL-GRADED SAND WITH SILT & GRAVEL (GP)-(SW-SM) -silt contamination from above -brown -damp -starts grinding @ 1.6m	X	843	20	40	60	GP			2.0	
3.0	-drill sounds coarser than sample appearance	X	844	20	40	60	SW-SM			3.0	
4.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -wet	X	845	20	40	60	GP-GM			4.0	
4.3	END HOLE @ 4.3m									4.3	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

COMPLETION DEPTH: 4.3 m

REVIEWED BY:

COMPLETE: 01/08/29

Fig. No:

Page 1 of 1

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-422								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1729+025 3M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
	POORLY GRAVEL WITH SAND (GP) -brown -damp		838				GP					1.0
1.0												
	SILTY GRAVEL WITH SAND (GM) -brown -damp		839				GM					2.0
2.0												
	SILTY SAND WITH GRAVEL (SM) -damp -grinding		840				SM					3.0
3.0												
	SILTY SAND (SM) -brown -damp -no grinding. - smooth		841				SM					4.0
4.0												
	END HOLE @ 4.3m											
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/29

Page 1 of 1

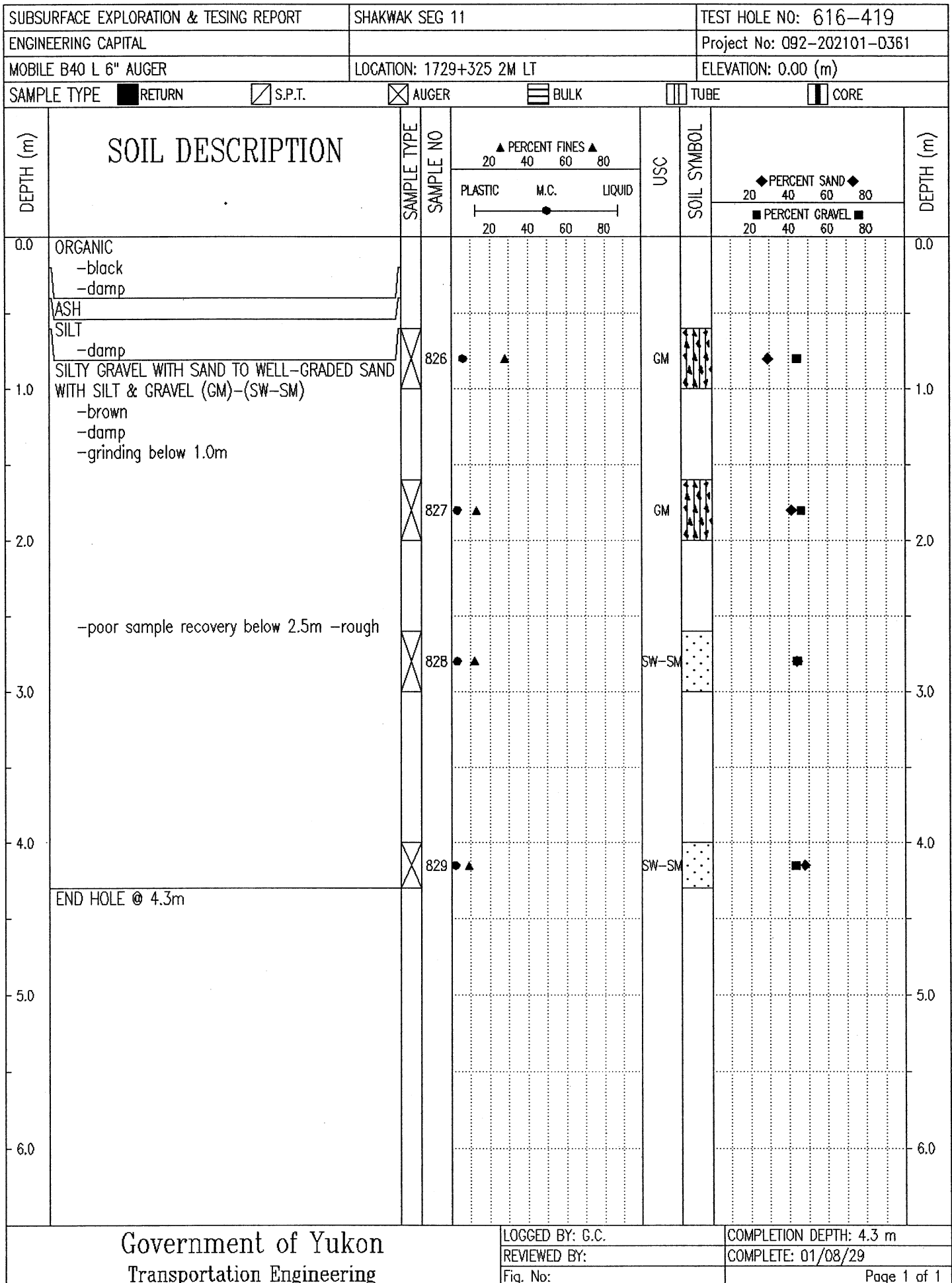
SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-421								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1729+125 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black										0.0	
	SAND											
	SILTY SAND WITH GRAVEL (SM) -brown -damp	X	834	●	▲		SM	◆	■		1.0	
	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -rough drilling @ 1.7m	X	835	●	▲		GP-GM	◆	■		2.0	
	WELL TO POORLY GRADED GRAVEL WITH SILT & SAND (GW-GM)-(GP-GM) -brown -damp -easier drilling	X	836	●	▲		GW-GM	◆	■		3.0	
	END HOLE @ 4.3m	X	837	●	▲		GP-GM	◆	■		4.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/29

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-420								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1729+235 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC										0.0	
0.0 - 1.0	POORLY GRADED GRAVEL WITH SAND TO WELL-GRADED GRAVEL (GP)-(GW) -brown -damp -rough grinding drilling @ 0.2m		830				GP	▲▲▲▲	◆	■	1.0	
1.0 - 2.0			831				GW	▲▲▲▲	◆	■	2.0	
2.0 - 3.0	WELL TO POORLY GRADED GRAVEL WITH SILT & SAND (GW-GM)-(GP-GM) -brown -damp -smoother drilling below 2.6m		832				GW-GM	▲▲▲▲	◆	■	3.0	
3.0 - 4.0			833				GP-GM	▲▲▲▲	◆	■	4.0	
4.0 - 4.3	END HOLE @ 4.3m										4.3	
4.3 - 6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:				COMPLETION DEPTH: 4.3 m COMPLETE: 01/08/29 Page 1 of 1				



SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-418								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1729+474 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC -black -damp										0.0	
	ASH -damp											
1.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY GRAVEL WITH SAND TO WELL-GRADED GRAVEL WITH SILT & SAND (GP-GM)-(GM)-(GW-GM) -brown -damp -rough drilling below 0.6m		822				GP-GM				1.0	
2.0			823				GM				2.0	
3.0			824				GW-GM				3.0	
4.0	-difficult to retrieve sample - rough withdrawal		825				GW-GM				4.0	
	END HOLE @ 4.3m											
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/29

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG: 11		TEST HOLE NO: 616-415								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1729+540 CENTRELINE		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC -black -previously stripped channel										0.0	
1.0	SANDY SILT (ML) -brown -moist	X	812A	●	▲		ML	▨	◆		1.0	
2.0	POORY GRADED GRAVEL WITH SILT & SAND TO WELL-GRADED SAND WITH SILT & GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)-(SW-SM)-(GP-GM) -brown -moist -starts grinding @ 1.5m (rough) -damp below 2.5m	X	813	●			GP-GM	▨▲	◆	■	2.0	
3.0		X	814	●▲			SW-SM	▨●	◆	■	3.0	
4.0	-moist to wet below 3.5m	X	815	●▲			GP-GM	▨▲	◆	■	4.0	
5.0	END HOLE @ 4.3m -culvert location										5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.3 m						
				REVIEWED BY:		COMPLETE: 01/08/28						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-416						
ENGINEERING CAPITAL				Project No: 092-202101-0361						
MOBILE B40 L 6" AUGER		LOCATION: 1729+540 15M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80		DEPTH (m)
0.0	ORGANIC -black -moist									0.0
1.0	VOLCANIC ASH									1.0
2.0	WELL-GRADED SAND WITH SILT & GRAVEL TO SILTY SAND WITH GRAVEL (SW-SM)-(SM) -saturated -grinding drilling -rough, slow drilling below 2.0m	<input checked="" type="checkbox"/>	816			SW-SM				2.0
3.0		<input checked="" type="checkbox"/>	817			SM				3.0
4.0	END HOLE @ 3.3m -refusal -culvert outlet									4.0
5.0										5.0
6.0										6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.	COMPLETION DEPTH: 3.3 m
REVIEWED BY:	COMPLETE: 01/08/28
Fig. No:	Page 1 of 1

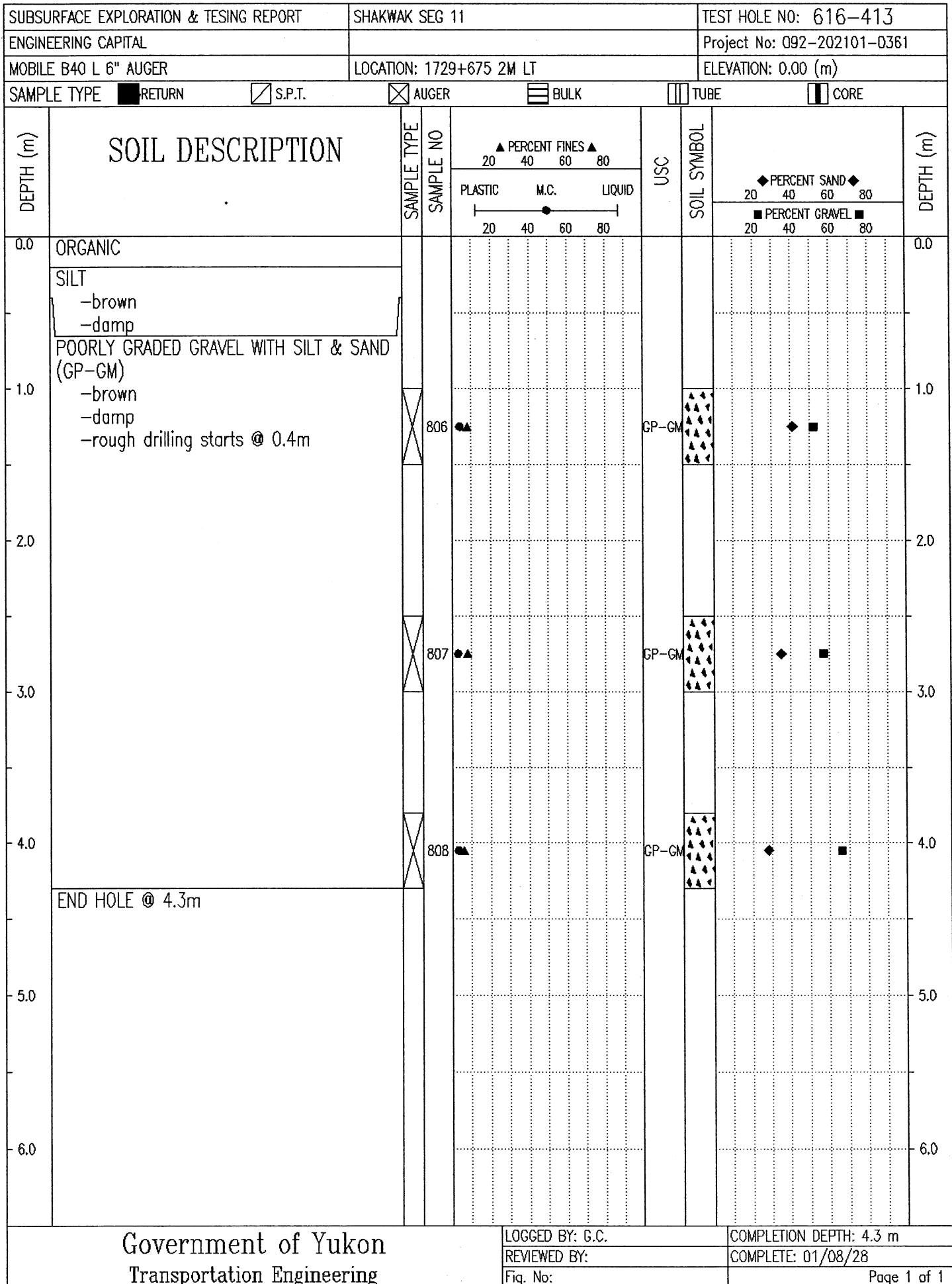
SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-417											
ENGINEERING CAPITAL				Project No: 092-202101-0361											
MOBILE B40 L 6" AUGER		LOCATION: 1729+540 20M LT		ELEVATION: 0.00 (m)											
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER											
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE											
				<input type="checkbox"/> CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	ORGANIC -black -moist													0.0	
1.0	SILT WITH SAND TO SILTY SAND (ML) -damp	<input checked="" type="checkbox"/>	818	●		▲	ML		◆					1.0	
1.0		<input checked="" type="checkbox"/>	819	●		▲	ML		◆					1.0	
2.0	SILTY SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (SM)-(GP-GM) -brown -damp -grinding starts @ 1.6m -slow tight drilling													2.0	
3.0		<input checked="" type="checkbox"/>	820	●	▲		SM	○○○○	◆	■				3.0	
4.0		<input checked="" type="checkbox"/>	821	●	▲		GP-GM	▲▲▲▲	◆	■				4.0	
4.3	END HOLE @ 4.3m Note: Test hole not in excavated channel. -in culvert inlet													4.3	
5.0														5.0	
6.0														6.0	
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:				COMPLETION DEPTH: 4.3 m COMPLETE: 01/08/29				Page 1 of 1			

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-414								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1729+588 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SANDY SILT (ML) -brown -damp -easy drilling  -moist below 1.0m		809	20	40	60	ML	20	40	60	80	0.0
1.0			810	20	40	60	ML	20	40	60	80	1.0
2.0	SILTY GRAVEL WITH SAND (GM) -moist		811	20	40	60	GM	20	40	60	80	2.0
3.0	SILTY SAND WITH GRAVEL (SM) -moist to wet -rough grinding drilling @ 3.0m		812	20	40	60	SM	20	40	60	80	3.0
4.0	END HOLE @ 3.4m -refusal -rock dust on bit.											4.0
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.4 m  
COMPLETE: 01/08/28



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

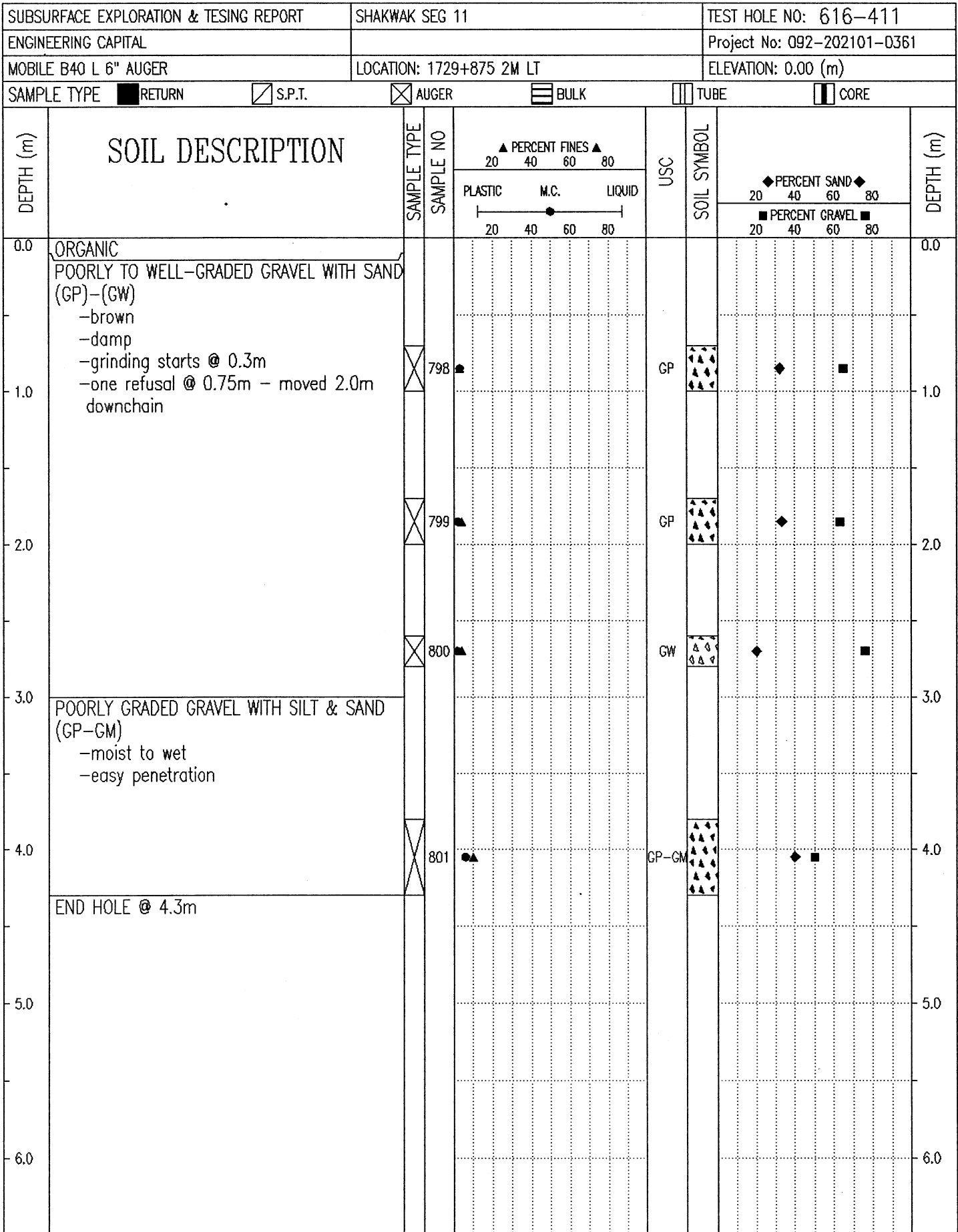
COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/28

SUBSURFACE EXPLORATION & TESING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 616-412								
ENGINEERING CAPITAL				Project No: 092-202101-0361								
MOBILE B40 L 6" AUGER		LOCATION: 1729+775 8M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC SILTY SAND WITH GRAVEL (SM) -brown -damp	⊗	802	●	▲		SM	◆	■		0.0	
1.0	POORLY TO WELL-GRADED GRAVEL WITH SILT & SAND (GP-GM)-(GW-GM) -brown -damp  -rough drilling 1.5 to 2.8m	⊗	803	●	▲		GP-GM	◆	■		1.0	
2.0		⊗	804	●	▲		GW-GM	◆	■		2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -smooth easy penetration below 3.2m	⊗	805	●	▲		SM	◆	■		3.0	
4.0	END HOLE @ 4.3m -existing culvert channel										4.0	
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

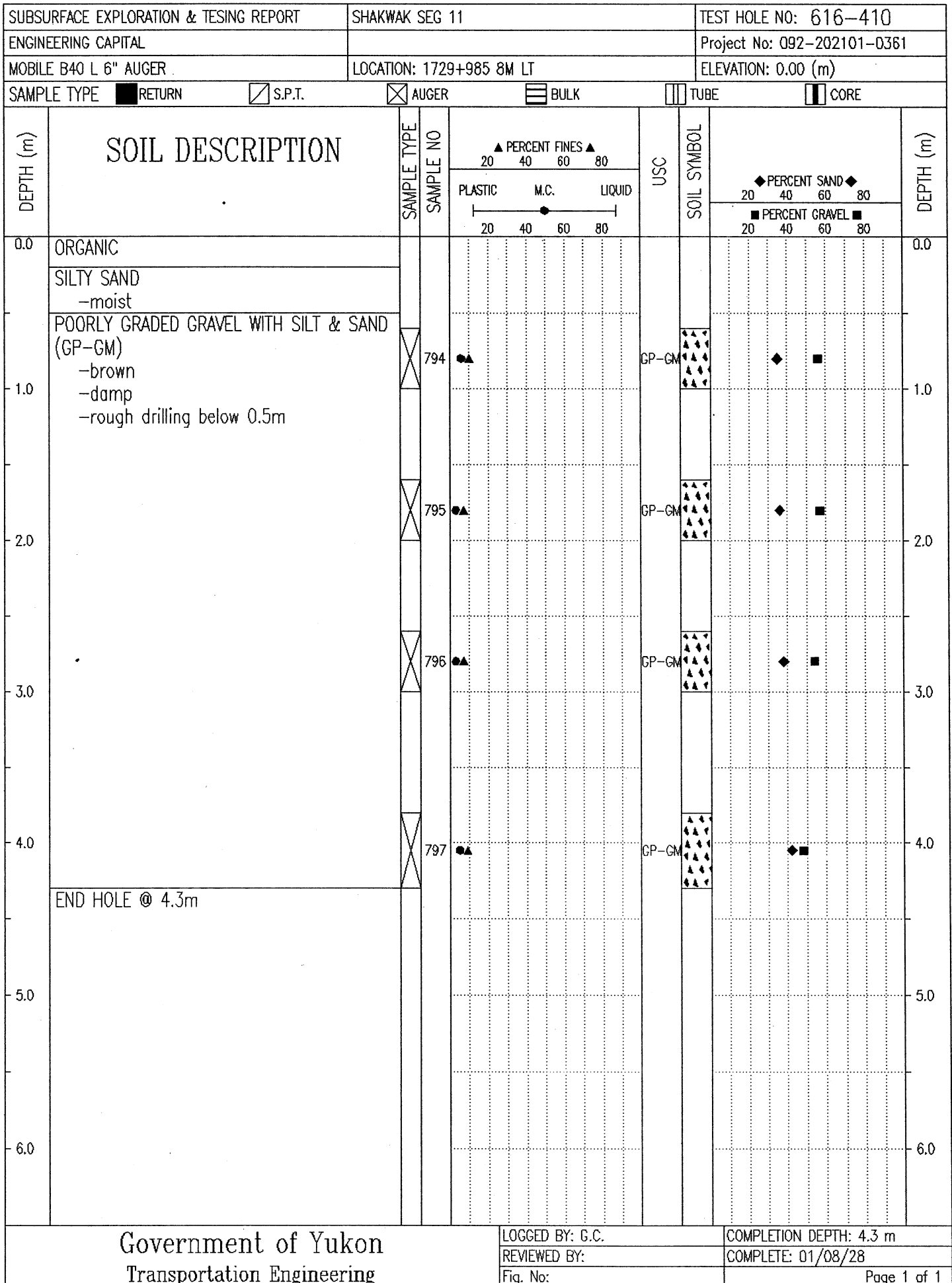
LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/28



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
REVIEWED BY:	COMPLETE: 01/08/28
Fig. No:	Page 1 of 1



SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-409						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1730+075 2M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC								0.0	
	SILT WITH SAND (ML) -brown -damp	<input checked="" type="checkbox"/>	790	●	▲	ML	▨	◆		
1.0	SILTY SAND WITH GRAVEL (SM) -brown -damp -grinding starts @ 0.6m	<input checked="" type="checkbox"/>	791	● ▲		SM	▨	■ ◆		
2.0	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM) -brown -damp									
3.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -easier penetration below 3.5m, could not see much difference in material on auger	<input checked="" type="checkbox"/>	792	▲		GW-GM	▨	◆ ■		
4.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -easier penetration below 3.5m, could not see much difference in material on auger	<input checked="" type="checkbox"/>	793	▲		GP-GM	▨	◆ ■		
5.0	END HOLE @ 4.3m									
6.0									6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/28

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-408								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+172 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
0.0 - 4.5	POORLY GRADED GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GP)-(GP-GM) -brown -damp -starts grinding @ 0.5m -rough drilling below 0.5m											
1.0		X	786				GP					1.0
2.0		X	787				GP-GM					2.0
3.0		X	788				GP-GM					3.0
4.0	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM) -brown -damp -easy penetration @ 3.5m											
4.0		X	789				GW-GM					4.0
4.5	END HOLE @ 4.5m											
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/28

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-407								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+222 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)-(GM)-(GP-GM)											0.0
1.0	-brown -damp -rough drilling -easier drilling below 1.0m		782				GP-GM					1.0
2.0	-moist below 2.0m -rougher drilling below 2.0m		783				GM					2.0
3.0	-damp below 3.0m		784				GM					3.0
4.0	END HOLE @ 4.3m		785				GP-GM					4.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/28

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-406								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+317 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp -rough grindy drilling											0.0
1.0		<input checked="" type="checkbox"/>	778	▲			GP	▲▲▲▲	◆	■		1.0
2.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -little smoother drilling below 1.5m	<input checked="" type="checkbox"/>	779	●			GP-GM	▲▲▲▲		■		2.0
3.0		<input checked="" type="checkbox"/>	780	▲			GP-GM	▲▲▲▲	◆	■		3.0
4.0		<input checked="" type="checkbox"/>	781	▲			GP-GM	▲▲▲▲	◆	■		4.0
5.0	END HOLE @ 4.3m Note: drainage ditch / previously stripped											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.3 m				
				REVIEWED BY:				COMPLETE: 01/08/28				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-405								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+425 3M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER								
RETURN		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
	POORLY GRADED GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GP)-(GP-GM)											
	-brown											
	-damp											
	-rough drilling 0.3m to 2.8m											
	-difficult to recover sample											
1.0			774				GP					1.0
2.0			775				GP-GM					2.0
3.0			776				GP-GM					3.0
4.0			777				GP-GM					4.0
	END HOLE @ 4.3m											
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

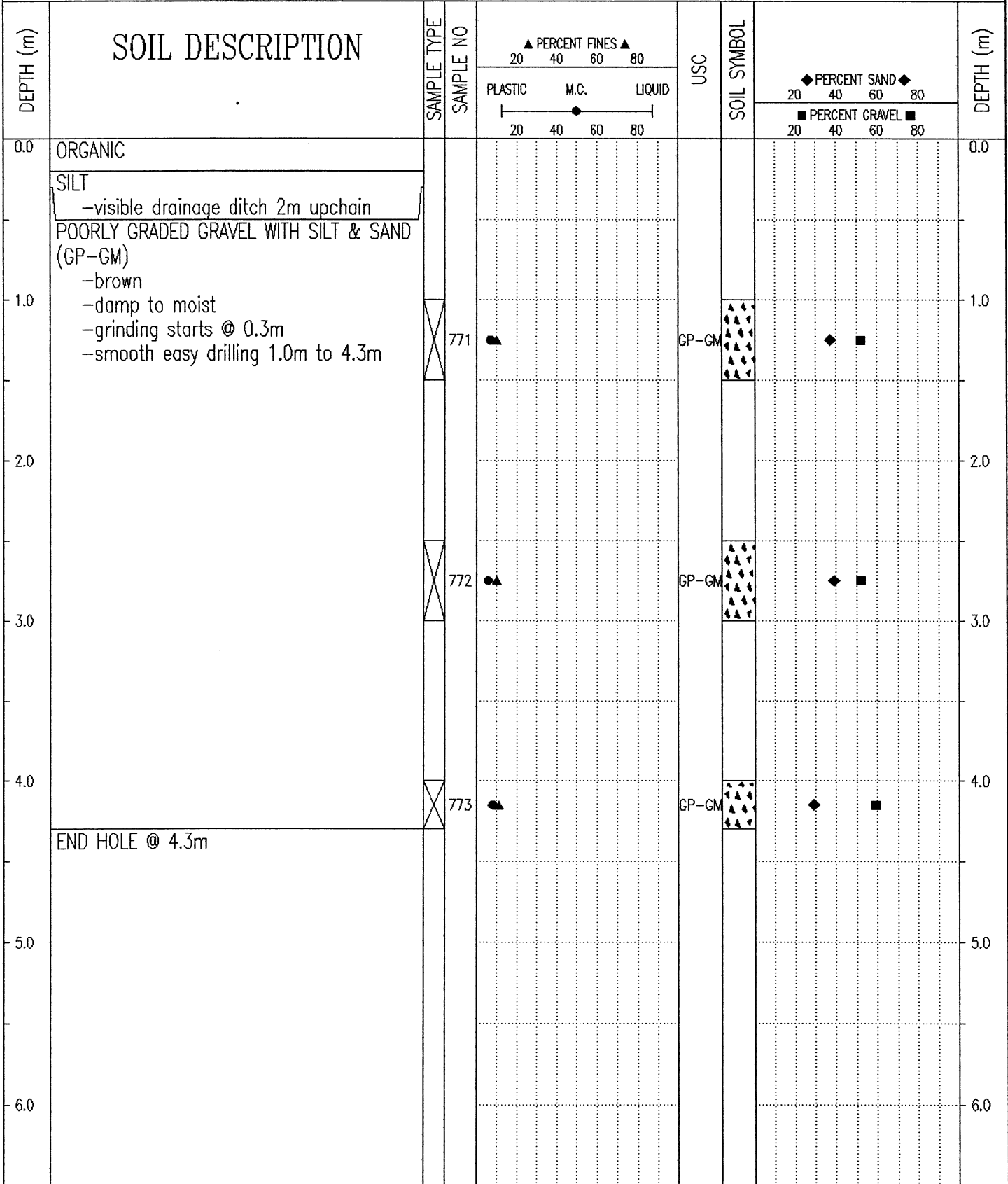
Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/28

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 615-404
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1730+525 2M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 01/08/28
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-403							
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361							
B40-L DRILL 6" AUGERS		LOCATION: 1730+625 3M RT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		RETURN		S.P.T.							
		AUGER		BULK							
		TUBE		CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES		USC	SOIL SYMBOL	PERCENT SAND		PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.			20	40		
0.0	ORGANIC										0.0
	SILT										
	-damp										
	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)										
	-brown										
	-damp										
	-rough drilling										
	-3 refusal between 1.0m - 1.5m										
1.0		X	768				GW-GM				1.0
	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)										
	-brown										
	-moist										
	-smaller gravel										
	-smooth drilling @ 1.5m										
2.0		X	769				GP-GM				2.0
3.0											
4.0		X	770				GP-GM				4.0
	END HOLE @ 4.3m										
5.0											
6.0											

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/28

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-402						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1730+695 2M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC WELL-GRADED GRAVEL WITH SAND (GW) -grey -damp -rough drilling (changed bit)									0.0
1.0			765				GW			1.0
2.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -easier drilling below 1.8m									2.0
3.0			766				GP-GM			3.0
4.0			767				GP-GM			4.0
4.3	END HOLE @ 4.3m									4.3
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.3 m				
				REVIEWED BY:		COMPLETE: 01/08/28				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-401							
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361							
B40-L DRILL 6" AUGERS		LOCATION: 1730+800 2M LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		RETURN		S.P.T.							
AUGER		BULK		TUBE							
CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANICS WELL-GRADED GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GW)-(GP-GM) -grey -damp -angular -rough drilling										0.0
1.0		X	762				GW	▲▲▲▲	◆	■	1.0
2.0											2.0
3.0	-moist below 2.5m	X	763				GP-GM	▲▲▲▲	◆	■	3.0
4.0		X	764				GP-GM	▲▲▲▲	◆	■	4.0
5.0	END HOLE @ 4.3m										5.0
6.0											6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/27

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-398								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+895 20M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	GRAVEL -visible washed surface rock -no sample recovery on auger -rough drilling from surface, -maximum 250mm material augered up.										0.0	
2.0	SILTY SAND WITH GRAVEL TO WELL-GRADED GRAVEL WITH SILT & SAND (SM)-(GW-GM) -wet -possible sand contamination from above in sample #754 -easy penetration below 1.5m -difficult to recover sample -rough drilling below 2.2m		754	40	55	75	SM	60	75	80	2.0	
3.0	-composite brought up with auger, gravel with sand		755	40	55	75	GW-GM	60	75	80	3.0	
4.0	END HOLE 4.0m										4.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.0 m

COMPLETE: 01/08/27

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-399								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+910 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
	POORLY GRADED GRAVEL WITH SAND (GP)											
	-grey											
	-damp											
	-visible washed gravel on surface											
	-maximum 250mm material augered up											
1.0			756				GP					1.0
2.0												2.0
	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)											
	-moist											
	-easy penetration											
3.0			757				GP-GM					3.0
4.0												4.0
	END HOLE @ 4.3m											
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/27

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-400								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+922 10M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC POORLY GRADED GRAVEL WITH SAND (GP) -damp -rough drilling -difficult to recover sample											0.0
1.0			759				GP					1.0
2.0												2.0
3.0	WELL-GRADED GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GW)-(GP-GM) -damp -easy penetration @ 2.5m		760				GW					3.0
4.0												4.0
4.3	END HOLE @ 4.3m		761				GP-GM					4.3
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/27

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-397								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1730+975 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
0.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM)											
0.0	-olive											
0.0	-wet											
1.0	-smooth easy drilling below 1.0m											
1.0	-moist below 1.0m											
2.0			750				SM				1.0	
2.0			751				SM				2.0	
3.0			752				SM				3.0	
3.0	-damp below 2.5m											
3.0	-grinding @ 2.5m (more Gravel)											
4.0			753				GM				4.0	
4.0	END HOLE @ 4.3m											
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-396								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+085 5M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANICS SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (SM)-(GM)-(SM) -olive -moist											0.0
1.0			746A	●	▲		SM	◻◻◻◻◻◻◻◻◻◻	■	◆		1.0
2.0	-damp below 1.5m -rough drilling - grinding below 1.5m		747	●	▲		SM	◻◻◻◻◻◻◻◻◻◻	■◆			2.0
3.0			748	●	▲		GM	◻◻◻◻◻◻◻◻◻◻	■◆			3.0
4.0			749	●	▲		SM	◻◻◻◻◻◻◻◻◻◻	■◆			4.0
4.3	END HOLE @ 4.3m											4.3

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-395								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+175 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE		
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC SILTY SAND (SM) -olive -moist to wet		743	●	▲		SM	◆	■		0.0	
1.0											1.0	
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -olive -damp -angular -grinding starts @ 1.2m -tight rough drilling below 2.0m		744	●	▲		SM	◆	■		2.0	
3.0			745	●	▲		GM	◆	■		3.0	
4.0			746	●	▲		GM	◆	■		4.0	
5.0	END HOLE @ 4.3m										5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27

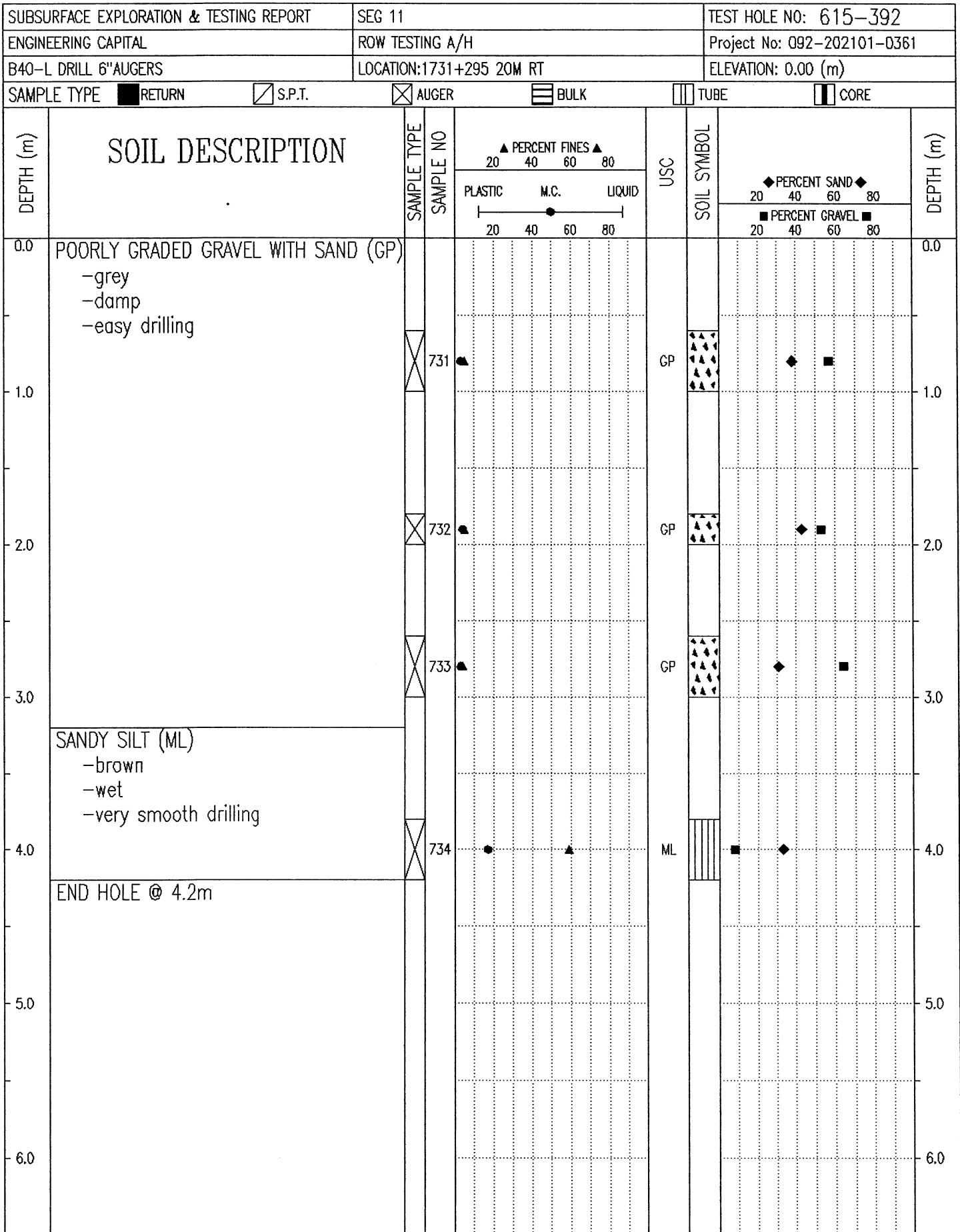
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-394											
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361											
B40-L DRILL 6" AUGERS		LOCATION: 1731+275 20M LT		ELEVATION: 0.00 (m)											
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER											
				<input type="checkbox"/> BULK											
				<input type="checkbox"/> TUBE											
				<input type="checkbox"/> CORE											
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -damp													0.0	
1.0			739				GP							1.0	
2.0			740				GP							2.0	
3.0			741				GP							3.0	
4.0	SANDY SILT (ML) -brown -wet -auger pulled down smooth.  -sample 742 may not be representative of material due to contamination from above. -drill responded like wet silt END HOLE @ 4.3m		742				ML							4.0	
5.0														5.0	
6.0														6.0	
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.3 m							
				REVIEWED BY:				COMPLETE: 01/08/27							
				Fig. No:				Page 1 of 1							

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-393								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+290 C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)		
				PLASTIC	M.C.			LIQUID	20		40	60
0.0	POORLY GRADED GRAVEL WITH SAND TO WELL-GRADED SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SAND (GP)-(SW)-(GP) -grey -damp -grinding drilling from surface	X	735				GP			0.0		
1.0											1.0	
2.0									SW			2.0
3.0												3.0
4.0	SILTY SAND WITH GRAVEL (SM) -very smooth drilling below 3.5m -poor sample recovered. -sample 738 may not be representative of material due to contamination from above. -drill responded like wet silt. END HOLE #4.3m	X	738				SM			4.0		
5.0											5.0	
6.0										6.0		

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27



Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.2 m

COMPLETE: 01/08/27

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-389								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+320 20M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -damp -grinding starts @ 0.3m											0.0
1.0			719				GP					1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -damp to dry -smooth layer @ 1.5m		720				SM					2.0
3.0			721				SM					3.0
4.0	SANDY SILT (ML) -brown -damp		722				ML					4.0
5.0	END HOLE @ 4.3m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.3 m				
				REVIEWED BY:				COMPLETE: 01/08/27				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-390									
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361									
B40-L DRILL 6" AUGERS		LOCATION: 1731+328 C.L.		ELEVATION: 0.00 (m)									
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER									
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE									
				<input type="checkbox"/> CORE									
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40			60
0.0	POORLY TO WELL-GRADED SAND WITH SILT & GRAVEL (SP-SM)-(SW-SM) -grey -damp -some grinding easy drilling	<input checked="" type="checkbox"/>	723	20	40	60	80	SP-SM	20	40	60	80	0.0
1.0				20	40	60	80	SP-SM	20	40	60	80	1.0
2.0				20	40	60	80	SW-SM	20	40	60	80	2.0
3.0				20	40	60	80	SW-SM	20	40	60	80	3.0
4.0				20	40	60	80	SW-SM	20	40	60	80	4.0
END HOLE @ 4.3m													
5.0												5.0	
6.0												6.0	
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.3 m					
				REVIEWED BY:				COMPLETE: 01/08/27					
				Fig. No:				Page 1 of 1					

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-391							
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361							
B40-L DRILL 6" AUGERS		LOCATION: 1731+345 20M RT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		RETURN		S.P.T.							
		AUGER		BULK							
		TUBE		CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	SANDY SILT (ML) -brown -moist to wet -smooth drilling 0 to 1.5m	⊗	727	●	▲		ML	■	◆	0.0	
1.0										1.0	
2.0	SILTY GRAVEL WITH SAND (GM) -brown -damp to moist -grinding drilling @ 1.5m to EOH	⊗	728	●▲			GM	■▲	◆	2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -brown -damp to moist  -moist below 3.5m	⊗	729	●▲			SM	■◆	◆	3.0	
4.0										4.0	
4.3	END HOLE @ 4.3m	⊗	730	●▲			SM	■◆	◆	4.3	
5.0										5.0	
6.0										6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-388						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1731+400 2M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80		DEPTH (m)
0.0	ORGANIC									0.0
	SILTY SAND (SM) -brown -damp -smooth easy drilling									
1.0		<input checked="" type="checkbox"/>	715	●	▲	SM	◆			1.0
	-dry to damp below 1.5m									
2.0		<input checked="" type="checkbox"/>	716	●	▲	SM	◆			2.0
3.0	SILT AND SAND LAYERS -brown -damp									
		<input checked="" type="checkbox"/>	717	●	▲	SM	◆			3.0
4.0	-sample 718 tested Silt with Sand (ML)									
	END HOLE @ 4.3m	<input checked="" type="checkbox"/>	718	●	▲	ML	◆			4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.3 m COMPLETE: 01/08/27				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-387								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+500 20M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND & GRAVEL			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT SAND	PERCENT GRAVEL		
0.0	ORGANIC WITH ASH -brown -moist											0.0
1.0	SILTY SAND WITH GRAVEL TO SILT WITH SAND (SM)-(ML) -brown (olive) -moist	X	711	●	▲		SM	▣	◆	■		1.0
2.0	-tight drilling @ 2.0m	X	712	●	▲		ML	▣	◆	■		2.0
3.0	SILTY GRAVEL WITH SAND (GM) -grey - olive -damp -grinding drilling @ 2.6m	X	713	●	▲		GM	▣	◆	■		3.0
4.0		X	714	●	▲		GM	▣	◆	■		4.0
4.3	END HOLE @ 4.3m											4.3

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-386								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+550 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC & ASH											0.0
	SILTY SAND WITH GRAVEL (SM) -damp to moist -very little grinding											
1.0		X	707	●	▲		SM		■	◆		1.0
	SANDY SILT TO SANDY SILT WITH GRAVEL TO SANDY SILT (ML) -olive grey -damp -tight drilling											
2.0		X	708	●	▲		ML		■	◆		2.0
3.0		X	709	●	▲		ML		■	◆		3.0
4.0		X	710	●	▲		ML		■	◆		4.0
	END HOLE @ 4.3m											
5.0												5.0
6.0												6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 615-385								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+605 15M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC & ASH										0.0	
	SILTY SAND WITH GRAVEL (SM)											
	-grey											
	-damp											
	-grinding @ 0.5m											
1.0		×	703	●	▲		SM	○	◆	■	1.0	
2.0		×	704	●	▲		SM	○	◆	■	2.0	
	-more gravel @ 2.0m											
3.0		×	705	●	▲		SM	○	◆	■	3.0	
4.0		×	706	●	▲		SM	○	◆	■	4.0	
	END HOLE @ 4.3m											
5.0											5.0	
6.0											6.0	

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.3 m  
COMPLETE: 01/08/27

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 613-384							
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361							
B40-L DRILL 6" AUGERS		LOCATION: 1731+632 15M LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER							
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE							
				<input type="checkbox"/> CORE							
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC -brown -moist										0.0
1.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -starts grinding @ 0.5m	<input checked="" type="checkbox"/>	699	●	▲		SM	▣▣▣▣	◆	■	1.0
2.0	SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (GM)-(SM) -brown -damp -hard grinding drilling @ 1.7m	<input checked="" type="checkbox"/>	700	●	▲		GM	▣▣▣▣	◆	■	2.0
3.0	-easier less grindy drilling below 3.0m	<input checked="" type="checkbox"/>	701	●	▲		SM	▣▣▣▣	◆	■	3.0
4.0		<input checked="" type="checkbox"/>	702	●	▲		SM	▣▣▣▣	◆	■	4.0
5.0	END HOLE @ 4.3m										5.0
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.3 m					
				REVIEWED BY:		COMPLETE: 01/08/24					
				Fig. No:		Page 1 of 1					

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 613-383								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1731+675 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC WITH ASH -brown -moist											0.0
	SILT WITH SOME GRAVEL -brown -moist											
1.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND TO SANDY SILT (SM)-(GM)-(ML) -brown -damp -grinding drilling starts @ 0.8m	<input checked="" type="checkbox"/>	695	●	▲		SM	▨▨▨▨	■	◆		1.0
2.0	-still grinding @ 2.5m - less gravel augered up	<input checked="" type="checkbox"/>	696	●	▲		GM	▨▨▨▨	◆	■		2.0
3.0	SILTY GRAVEL WITH SAND (GM) -brown -damp	<input checked="" type="checkbox"/>	697	●	▲		ML	▨▨▨▨	■	◆		3.0
4.0	END HOLE @ 4.3m	<input checked="" type="checkbox"/>	698	●	▲		GM	▨▨▨▨	◆	■		4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.3 m				
				REVIEWED BY:				COMPLETE: 01/08/24				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 613-382						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1731+728 2M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■	
0.0	ORGANIC & ASH									0.0
	SILTY SAND WITH GRAVEL (SM) -brown -moist									
1.0		<input checked="" type="checkbox"/>	691	●	▲		SM	■	◆	1.0
	SILTY GRAVEL WITH SAND (GM) -brown -damp -more grindy drilling									
2.0		<input checked="" type="checkbox"/>	692	●	▲		GM	■	◆	2.0
3.0		<input checked="" type="checkbox"/>	693	●	▲		GM	■	◆	3.0
	SILTY SAND WITH GRAVEL (SM) -dry to damp -dryer sandier material - less silt									
4.0		<input checked="" type="checkbox"/>	694	●	▲		SM	■	◆	4.0
	END HOLE @ 4.3m									
5.0										5.0
6.0										6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: G.C.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.3 m

COMPLETE: 01/08/24

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 613-381						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1731+825 2M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC ASH									0.0
1.0	SANDY SILT TO SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (ML)-(GM)-(SM) -grey -moist	<input checked="" type="checkbox"/>	687	●	▲		ML	■	◆	1.0
2.0										2.0
3.0	-damp below 2.5m	<input checked="" type="checkbox"/>	688	●	▲		GM	■	◆	3.0
4.0	-refusal @ 3.3m - moved 2m upchain									4.0
5.0										5.0
6.0	-very hard slow drilling below 5.2m	<input checked="" type="checkbox"/>	689	●	▲		SM	■	◆	6.0
7.0		<input checked="" type="checkbox"/>	690	●	▲		SM	■	◆	7.0
8.0	END HOLE @ 7.5m									8.0
9.0										9.0
10.0										10.0

Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.

REVIEWED BY:

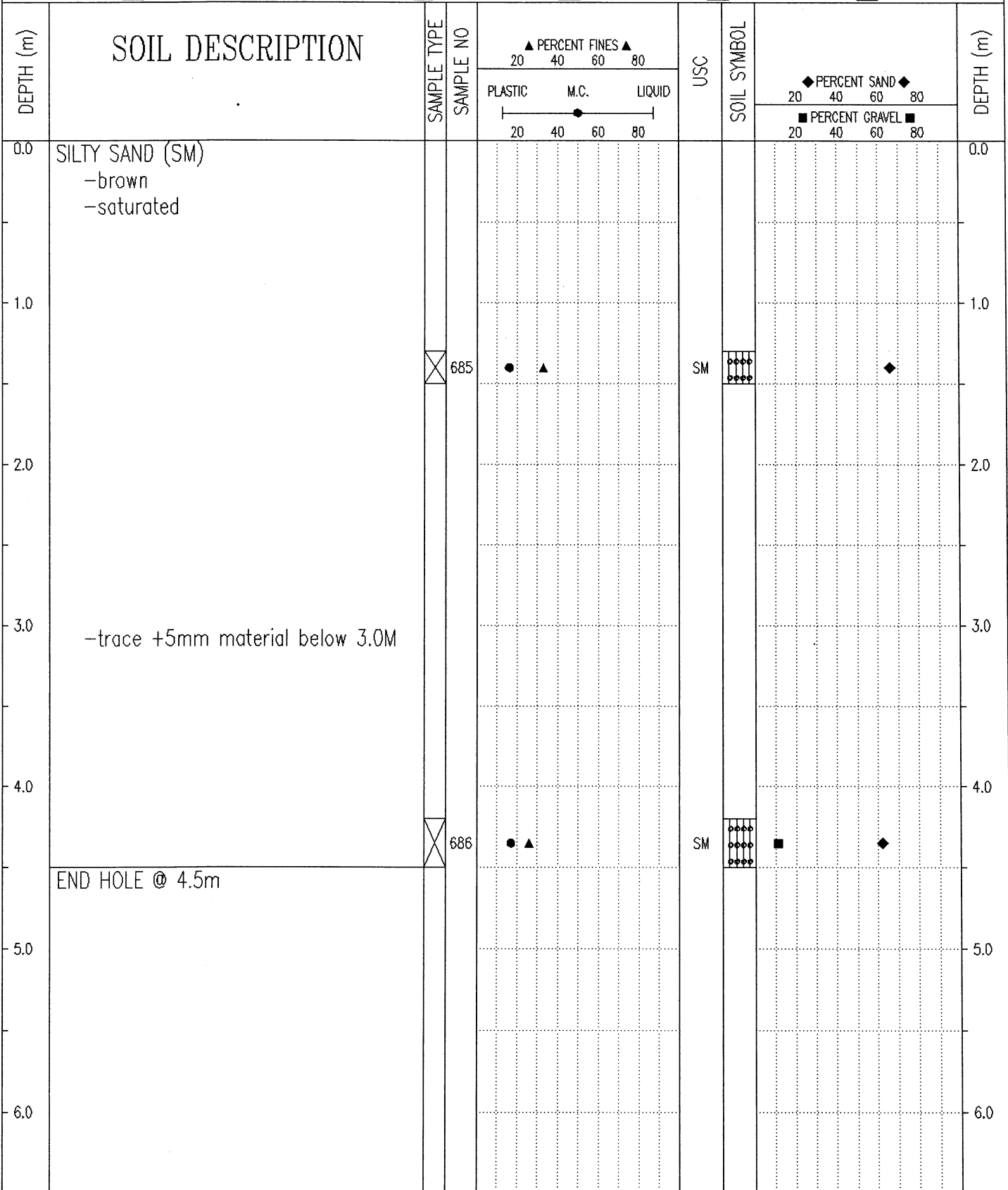
Fig. No:

COMPLETION DEPTH: 7.5 m

COMPLETE: 01/08/08

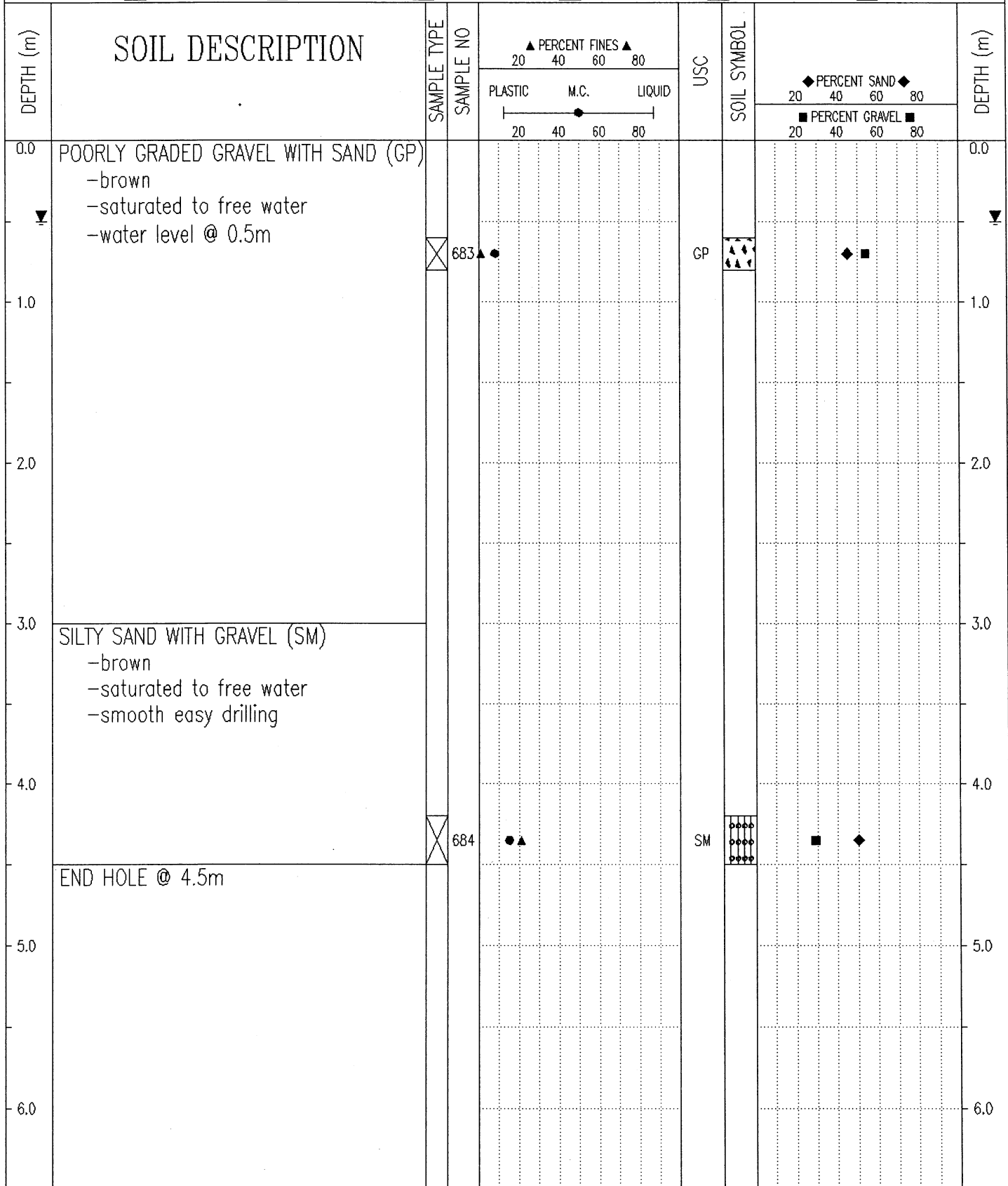
Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 613-380
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1731+925 2M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/08
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-379
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1732+002 4m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/08
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-378						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1732+100		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆	■ PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.					
0.0	SILTY SAND									0.0
	ORGANIC									
	POORLY GRADED GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND TO POORLY GRADED GRAVEL WITH SAND (GP)-(GP-GM)-(GP)									
	-brown									
	-damp									
1.0										1.0
		<input checked="" type="checkbox"/>	680			GP	▲▲▲▲	◆	■	
2.0										2.0
		<input checked="" type="checkbox"/>	681			GP-GM	▲▲▲▲	◆	■	
3.0										3.0
		<input checked="" type="checkbox"/>	682			GP	▲▲▲▲	◆	■	
4.0										4.0
	END HOLE @ 4.5m									
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T. REVIEWED BY:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/08/08				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-377						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1732+175 5M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC									0.0
	SILT & ORGANIC									
	GRAVELLY SANDY SILT -wet									
1.0	POORLY GRADED GRAVEL WITH SAND TO WELL-GRADED SAND WITH SILT & GRAVEL (GP)-(SW-SM) -brown -moist -grindy drilling									1.0
		<input checked="" type="checkbox"/>	678			GP	▲▲▲▲	◆	■	
2.0										2.0
3.0										3.0
4.0	-damp below 4.0m									4.0
		<input checked="" type="checkbox"/>	679			SW-SM	●●●●	■	◆	
5.0	END HOLE @ 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/08/08				

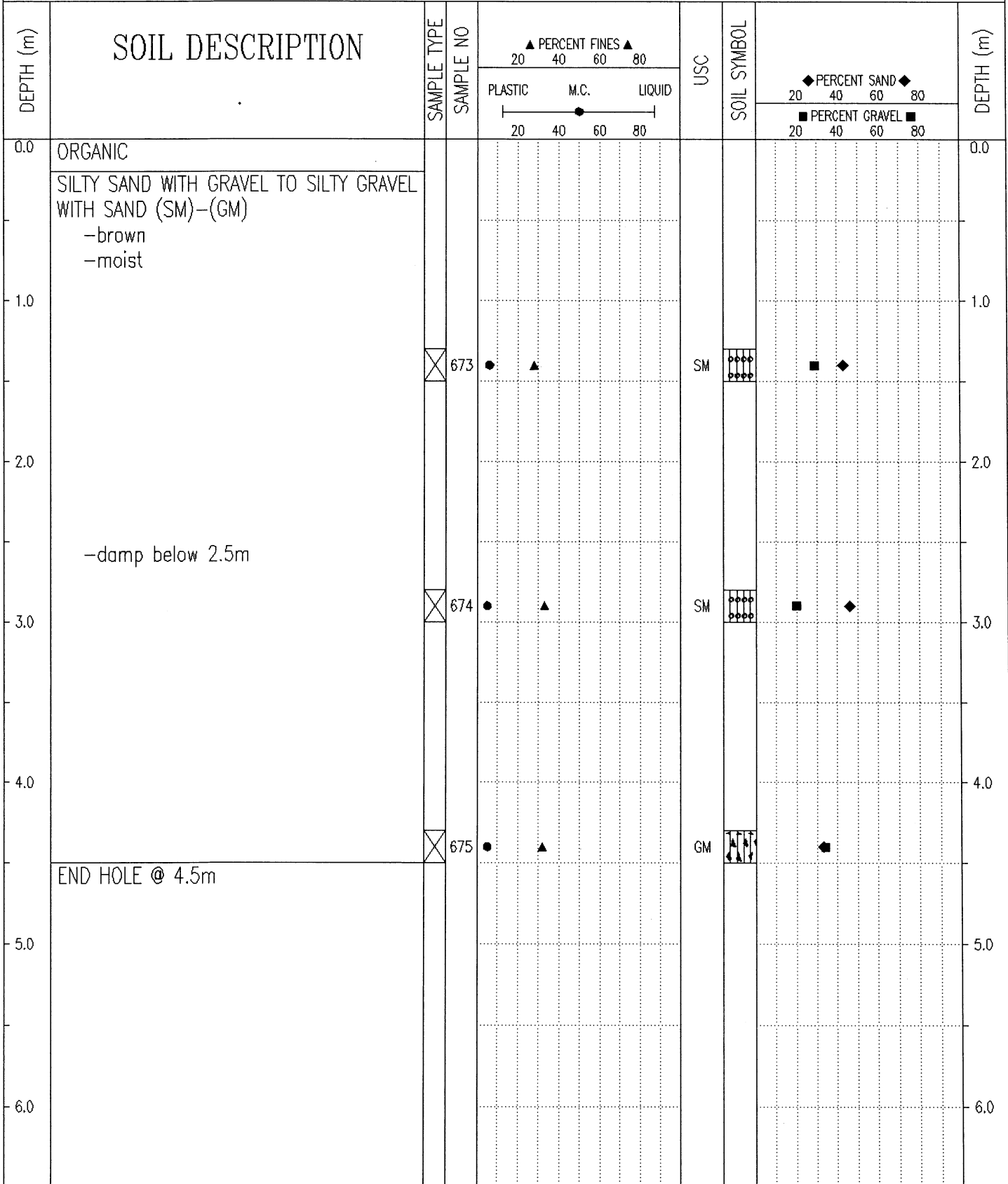
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-376						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1732+275 2M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp	<input checked="" type="checkbox"/>								0.0
1.0		<input checked="" type="checkbox"/>	676			GP				1.0
2.0										2.0
3.0	-moist below 2.5m	<input checked="" type="checkbox"/>	677			GP				3.0
4.0	END HOLE @ 3.3m -refusal - rock dust on bit									4.0
5.0										5.0
6.0										6.0

Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.3 m  
COMPLETE: 01/08/08

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-375
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1732+375 2M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	

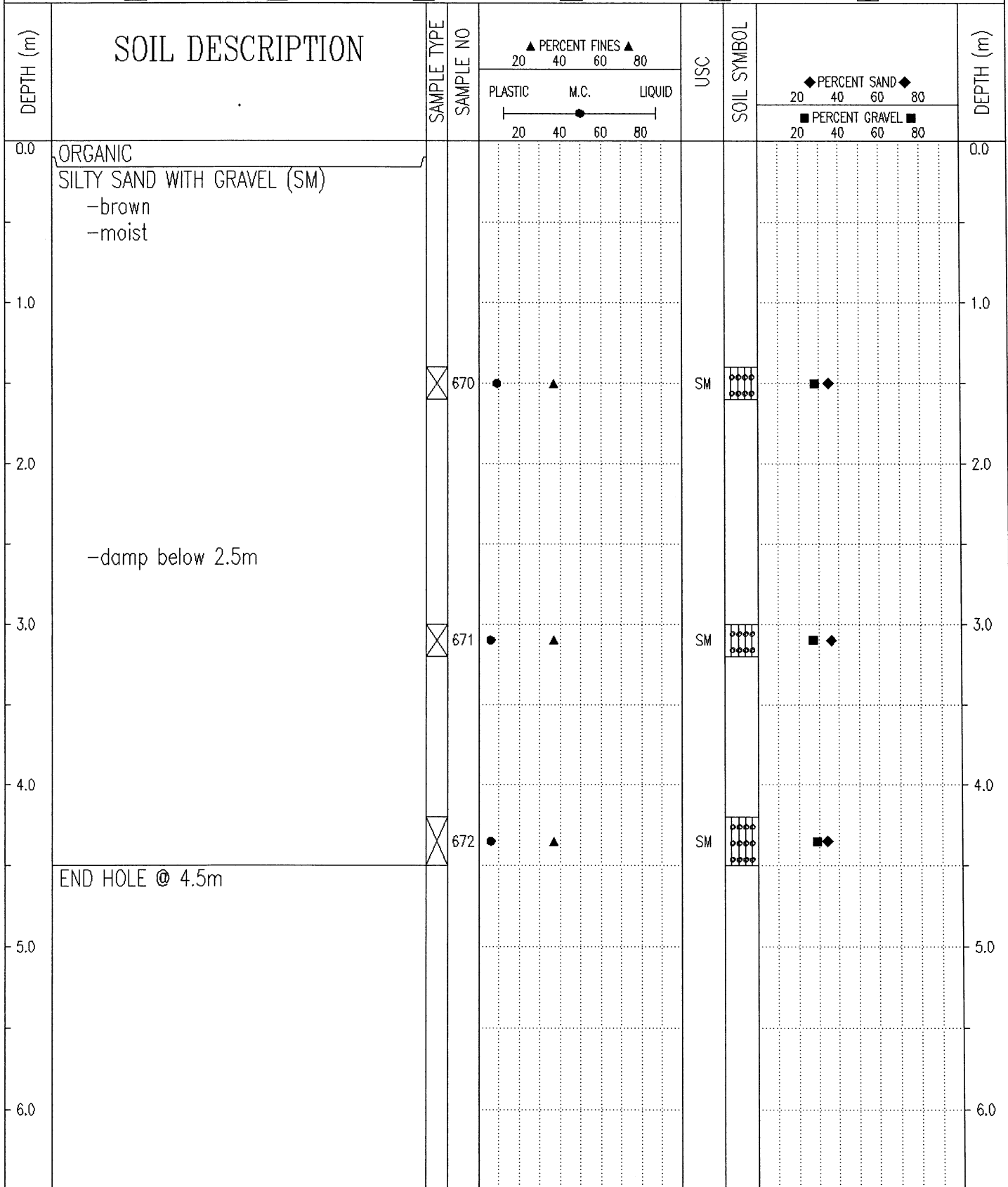


Government of Yukon  
Transportation Engineering

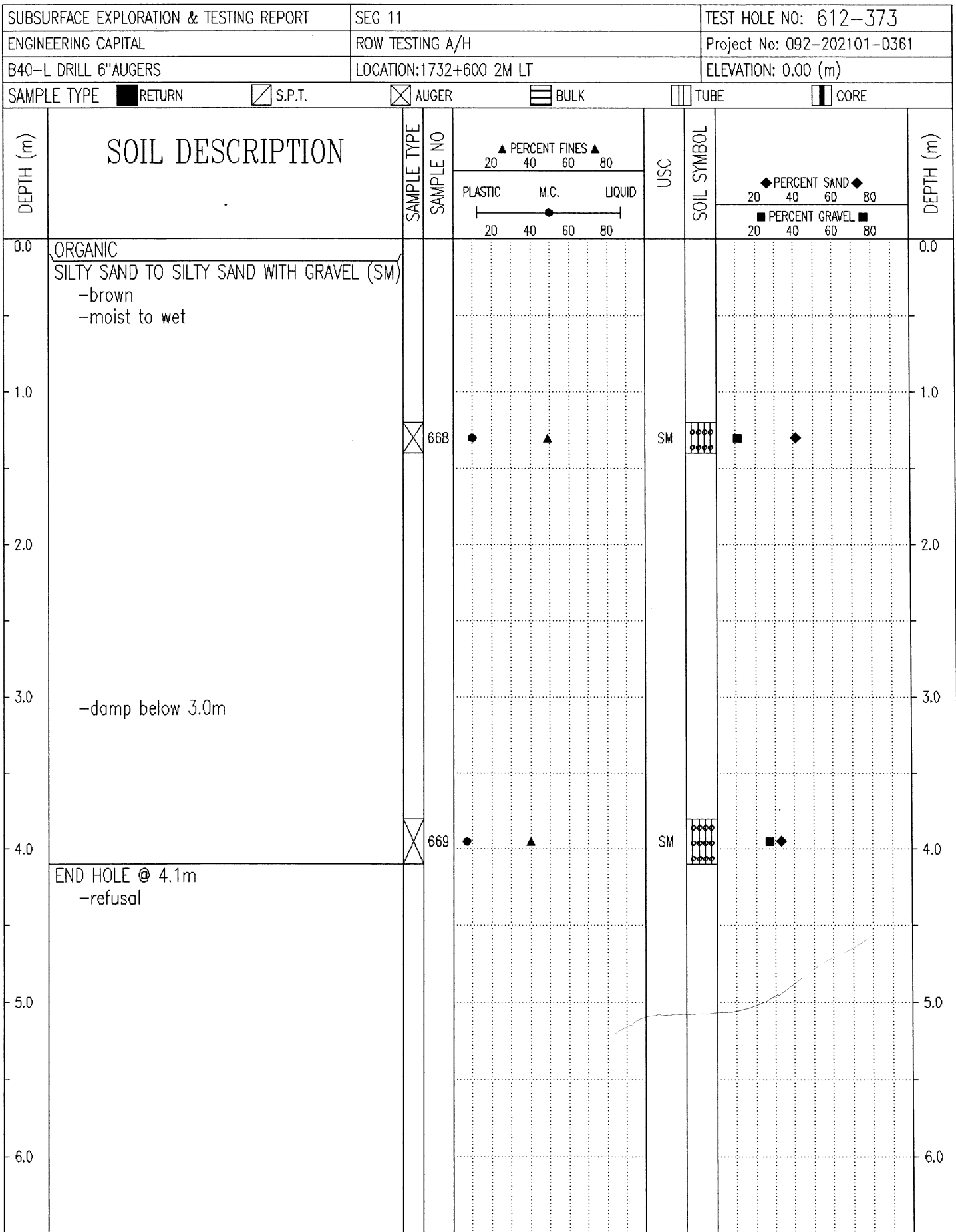
LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/08

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-374
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1732+482 15M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



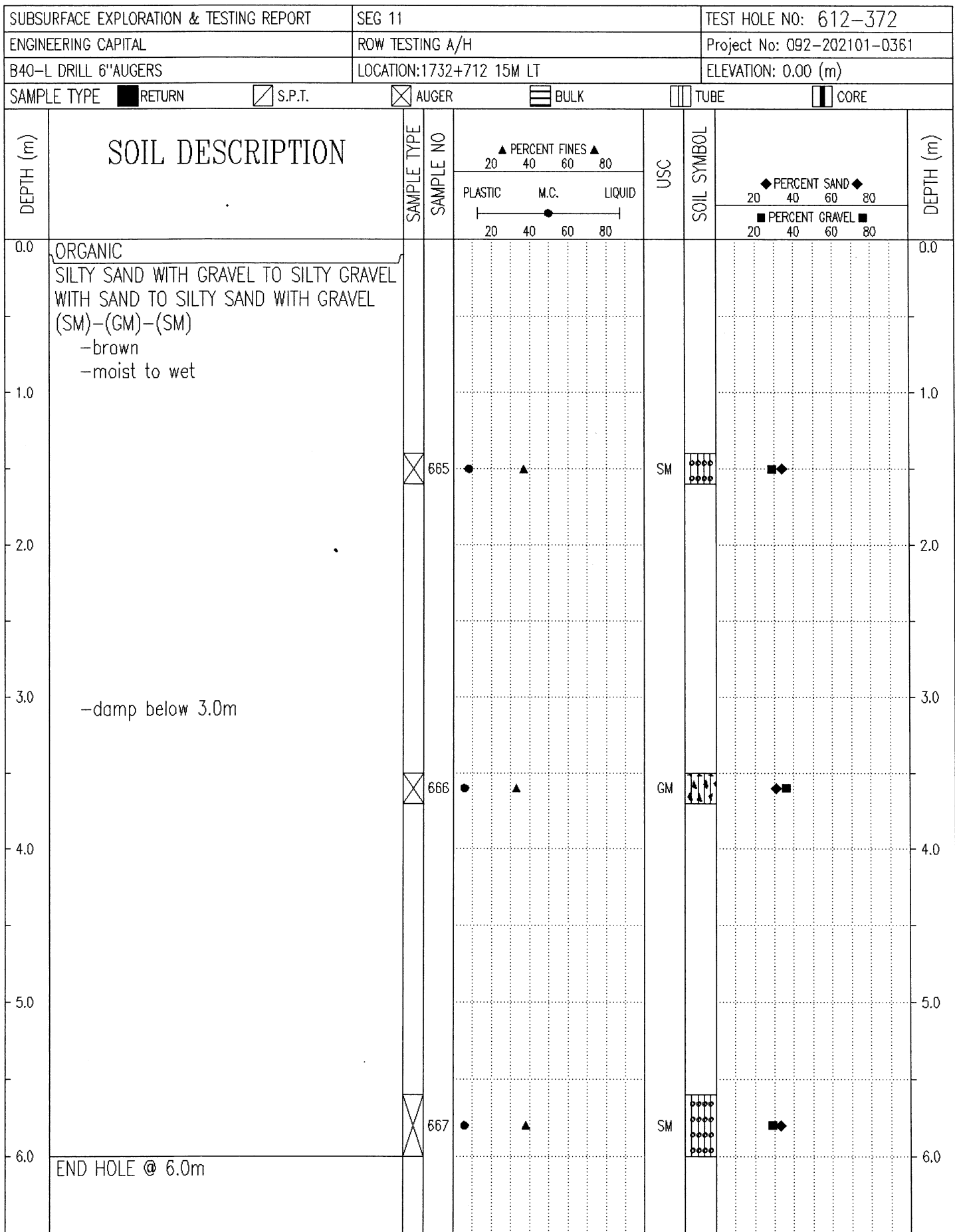
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/08
	Fig. No:	Page 1 of 1



Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.1 m  
COMPLETE: 01/08/08



Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.0 m  
COMPLETE: 01/08/08

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-371								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1732+800 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL			
0.0	ORGANIC ASH SILTY SAND WITH GRAVEL (SM) -brown -wet										0.0	
1.0											1.0	
2.0			662	●	▲		SM	◈	■		2.0	
3.0	-damp below 3.0m										3.0	
4.0			663	●	▲		SM	◈	■		4.0	
5.0											5.0	
6.0	END HOLE @ 6.0m		664	●	▲		SM	◈	■		6.0	

Government of Yukon  
Transportation Engineering

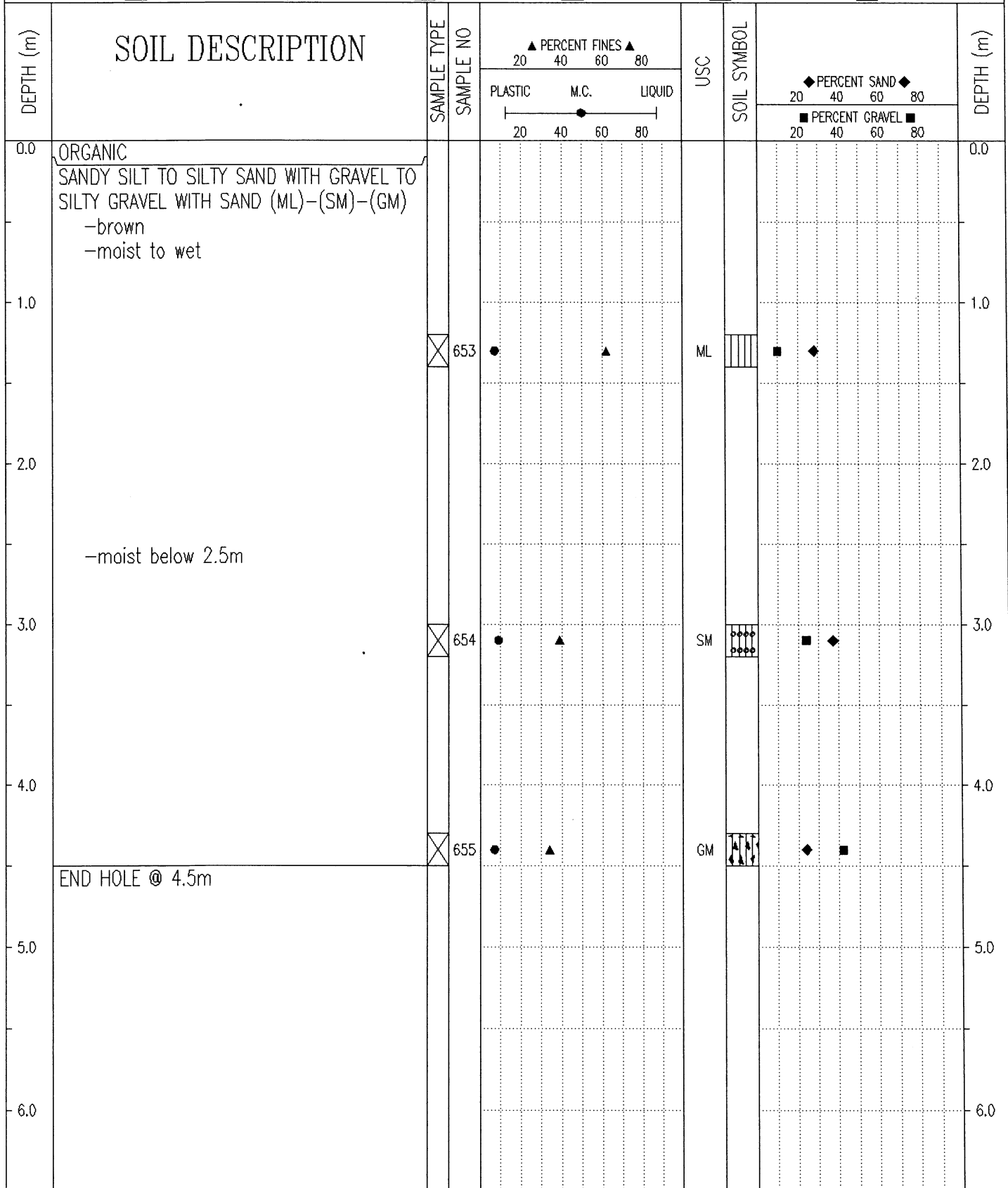
LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 6.0 m  
COMPLETE: 01/08/08

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-370								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1732+900 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
				<input type="checkbox"/> BULK								
				<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC ASH SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -grey -saturated											0.0
1.0												1.0
2.0												2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0
6.0	END HOLE @ 6.0m											6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.				COMPLETION DEPTH: 6.0 m				
				REVIEWED BY:				COMPLETE: 01/08/08				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-369						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1732+996 11M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER						
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE						
				<input type="checkbox"/> CORE						
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -wet									0.0
1.0										1.0
2.0		<input checked="" type="checkbox"/>	656	●	▲		SM	◆	◆	2.0
3.0										3.0
4.0	-moist below 3.5m	<input checked="" type="checkbox"/>	657	●	▲		GM	◆	■	4.0
5.0										5.0
6.0	-damp below 6.0									6.0
7.0		<input checked="" type="checkbox"/>	658	●	▲		GM	◆	■	7.0
8.0	END HOLE @ 7.5m									8.0
9.0										9.0
10.0										10.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.		COMPLETION DEPTH: 7.5 m				
				REVIEWED BY:		COMPLETE: 01/08/08				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-368
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+100	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/08
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-367								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1733+190 2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC SANDY SILT WITH GRAVEL TO SANDY SILT TO SILTY GRAVEL WITH SAND (ML)-(GM) -grey -saturated										0.0	
1.0											1.0	
2.0	-frozen (Nf) below 2.1m										2.0	
3.0		<input checked="" type="checkbox"/>	650	●	▲		ML	▨	◆	■	3.0	
4.0											4.0	
5.0		<input checked="" type="checkbox"/>	651	●	▲		ML	▨	◆	■	5.0	
6.0											6.0	
	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	652	●	▲		GM	▨	◆	■		

Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.

REVIEWED BY:

Fig. No:

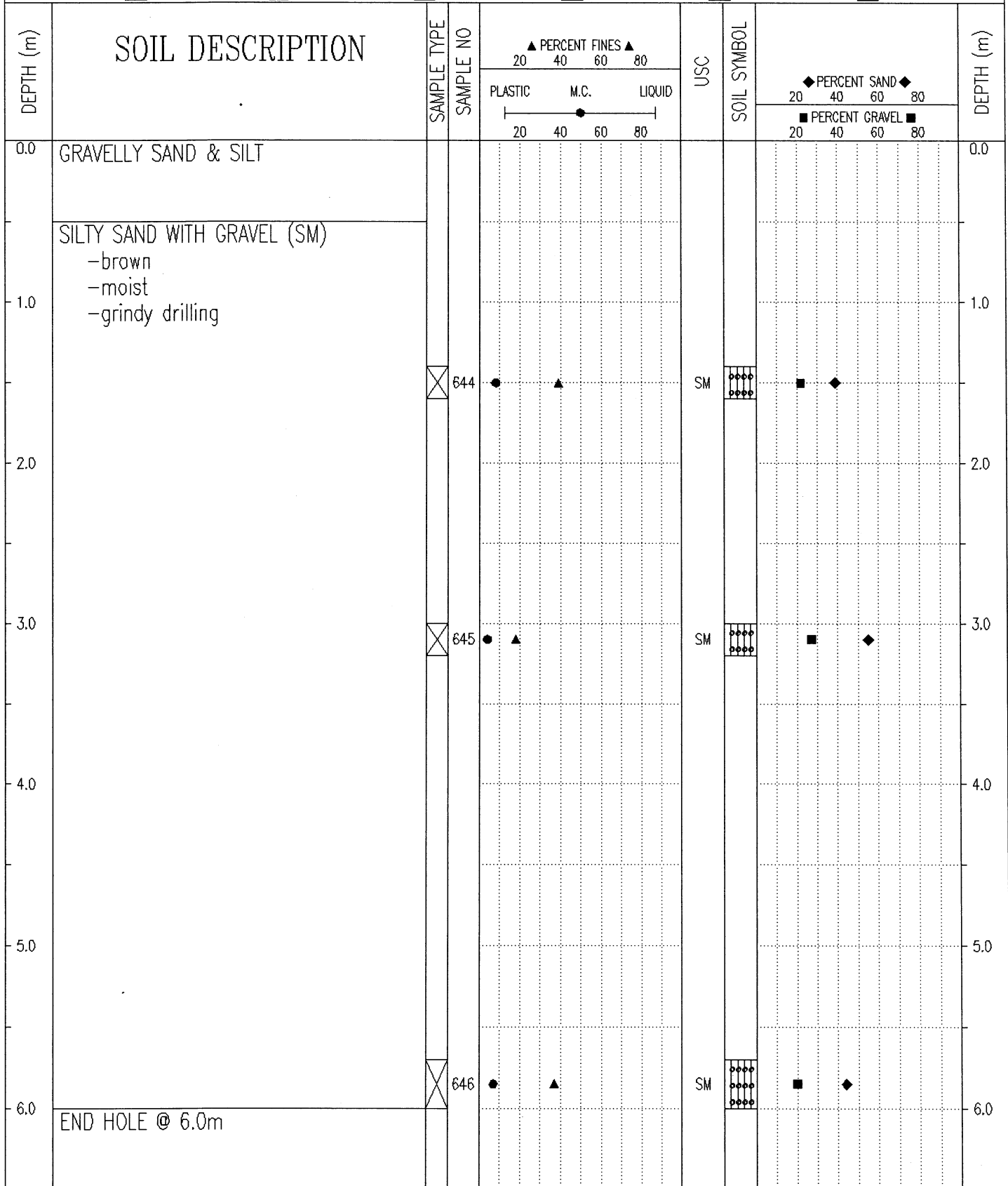
COMPLETION DEPTH: 4.5 m

COMPLETE: 01/08/08

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-366						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1733+325 2M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC ASH SILTY SAND TO SILTY SAND WITH GRAVEL TO SILTY SAND (SM) -frozen (Vx)									0.0
1.0	-refusal @ 1.4m - moved 1m downchain		647	●	▲		SM	■	◆	1.0
2.0										2.0
3.0	-frozen (Nb) below 2.5m		648	●	▲		SM	■	◆	3.0
4.0	-moist below 3.6m									4.0
5.0	END HOLE @ 4.5m		649	●	▲		SM	■	◆	5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/08/07		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-365
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+450 2M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

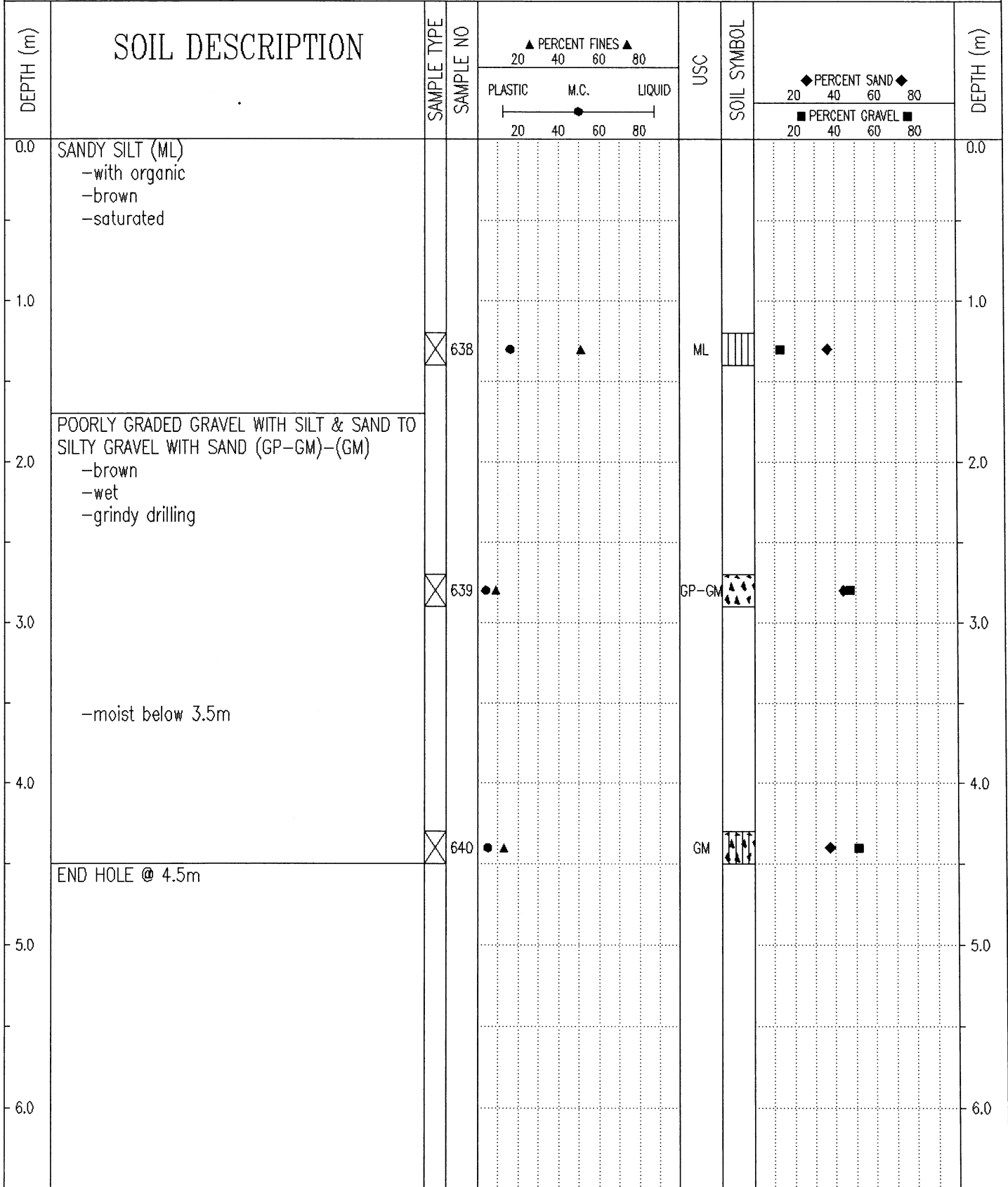
LOGGED BY: D.T.	COMPLETION DEPTH: 6.0 m
REVIEWED BY:	COMPLETE: 01/08/07
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-363
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+498 C.L.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	ORGANIC GRAVELLY SAND & ORGANIC													0.0	
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -grindy drilling		641				GP-GM							1.0	
2.0														2.0	
3.0														3.0	
4.0	No sample recovered below 3.5m -material shook off auger -smooth drilling													4.0	
5.0	END HOLE @ 4.5m													5.0	
6.0														6.0	

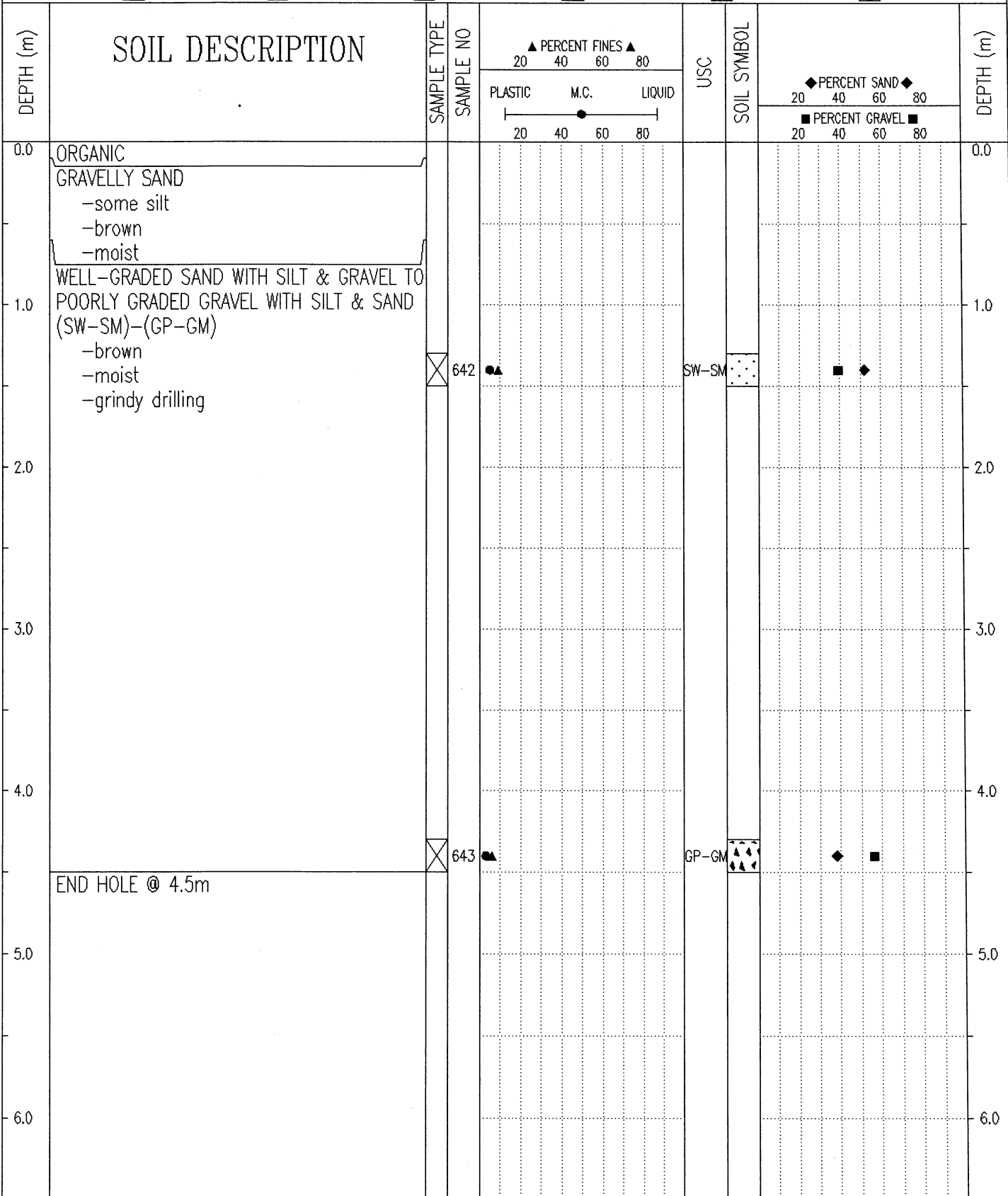
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/07
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-362
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+500 15M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/07
	Fig. No:	Page 1 of 1

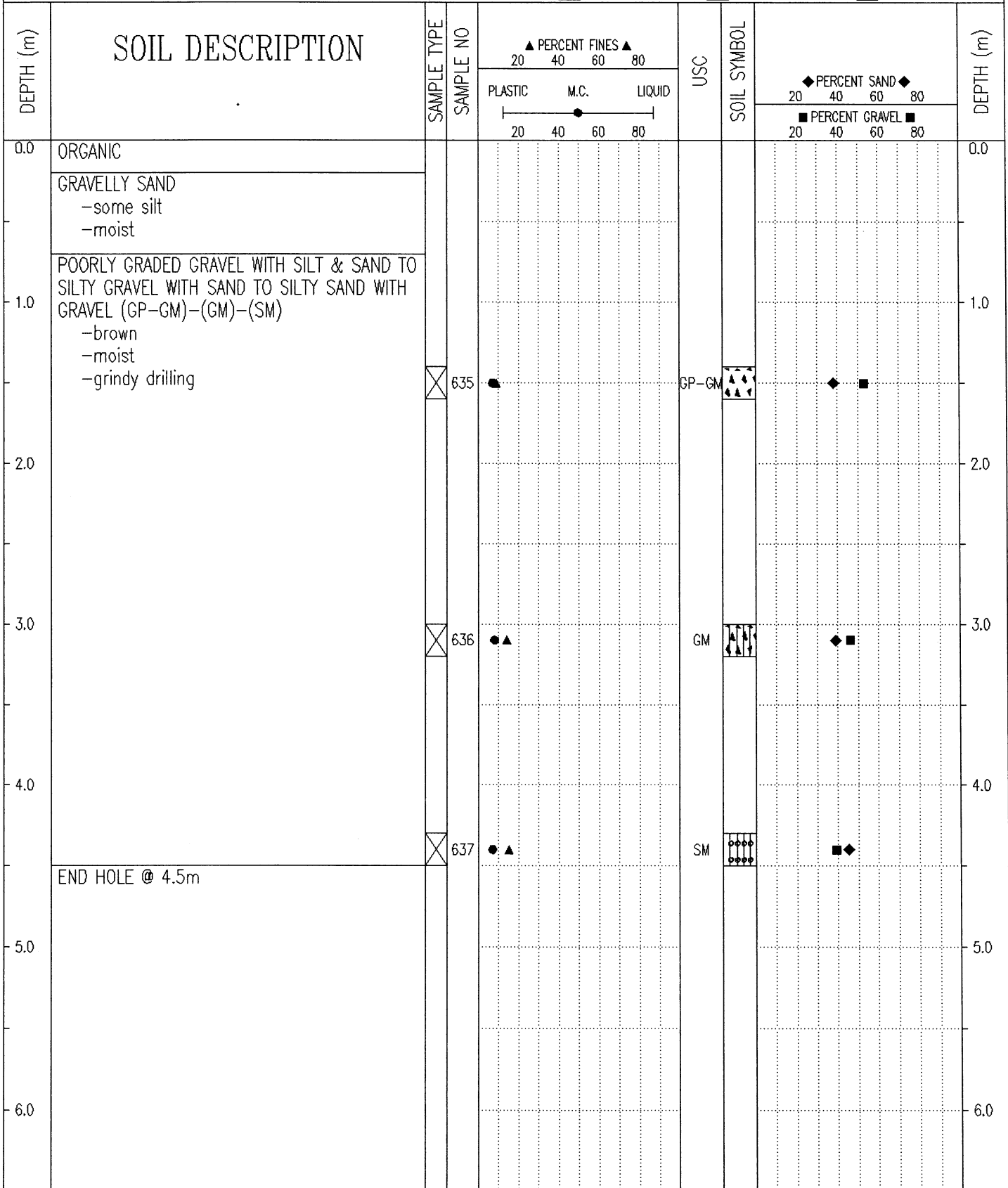
SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-364
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+500 15M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



Government of Yukon  
Transportation Engineering

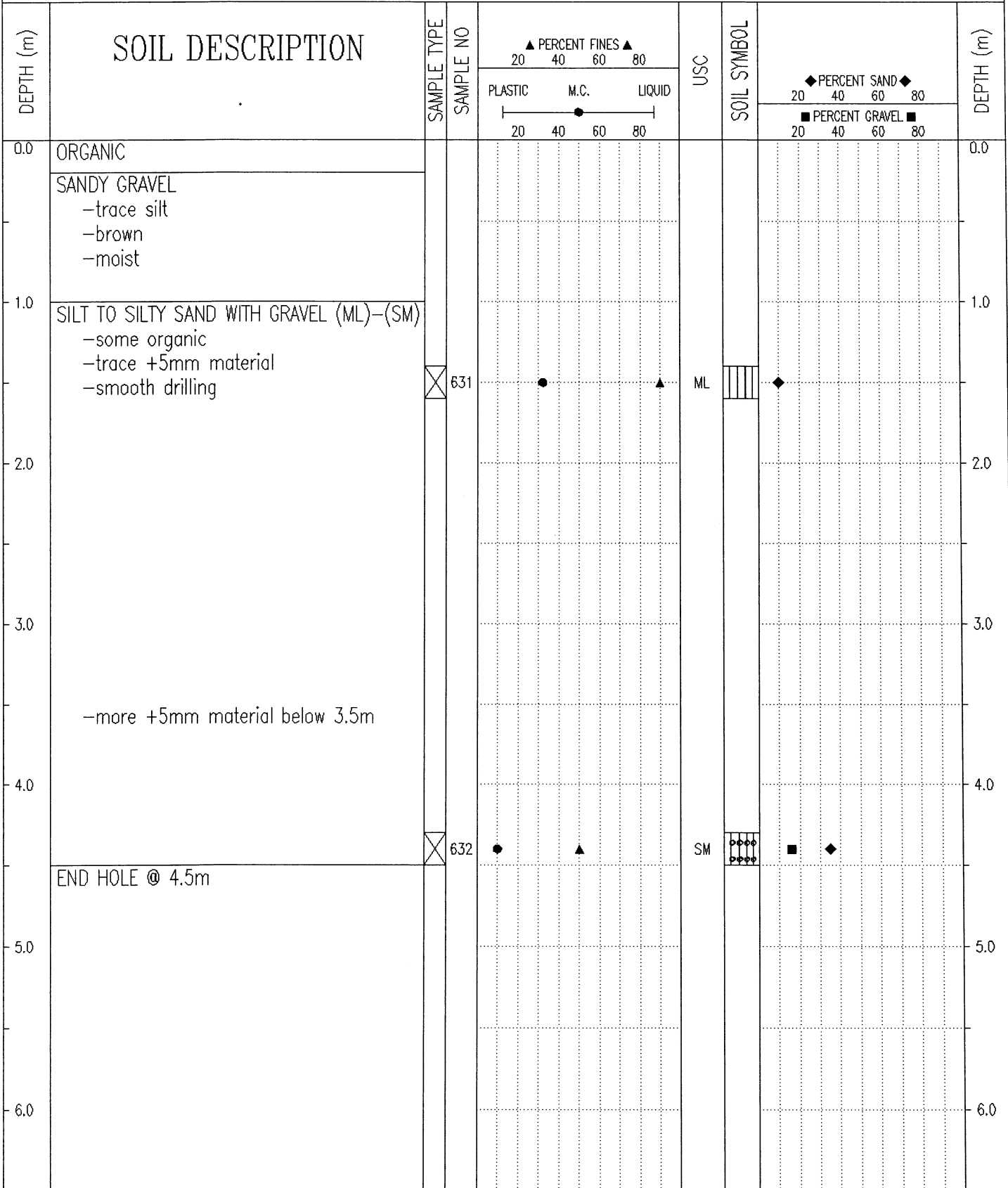
LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 01/08/07
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-361
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+600 2M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



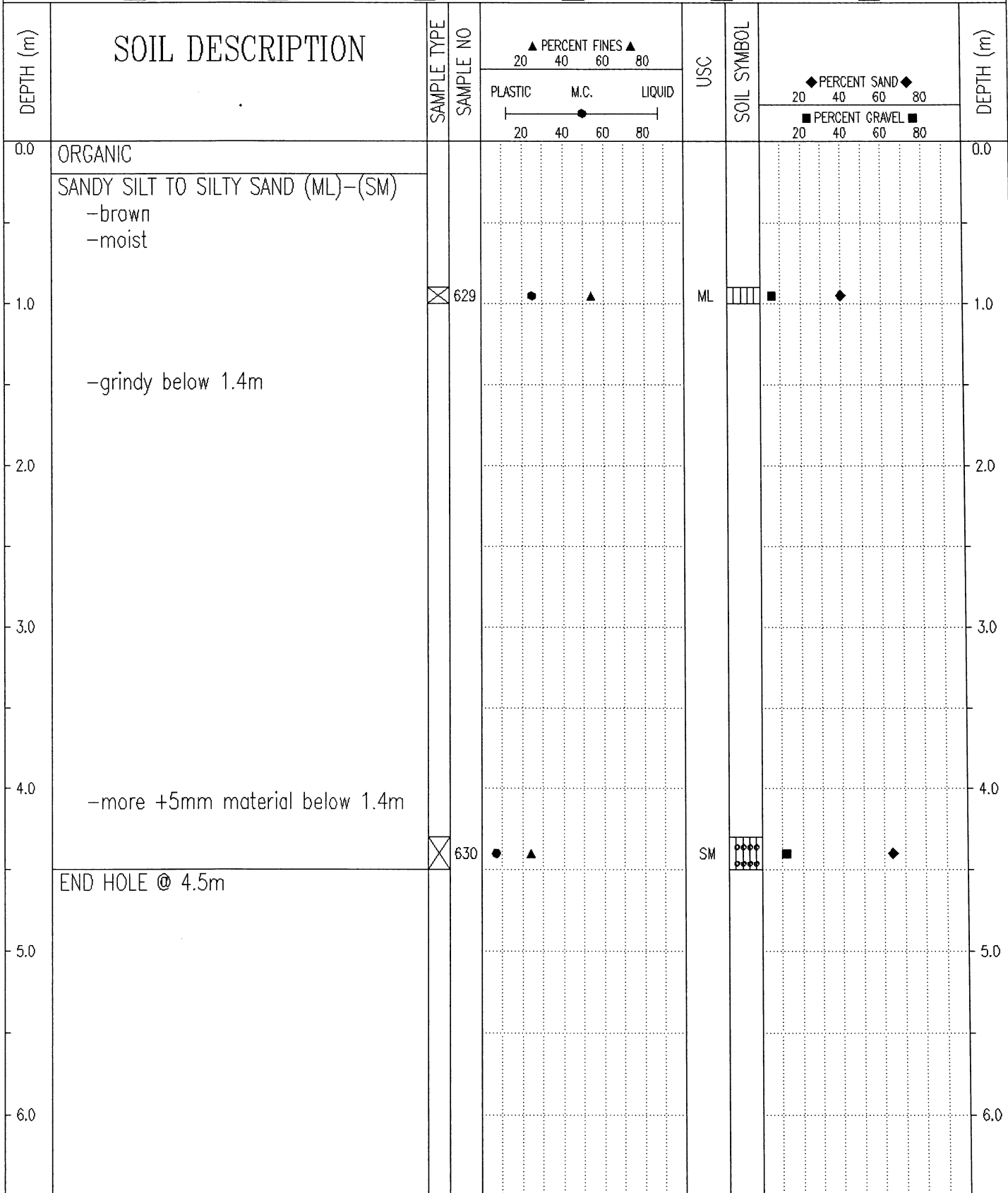
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/07
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-359
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+698 C.L.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/07
	Fig. No:	Page 1 of 1

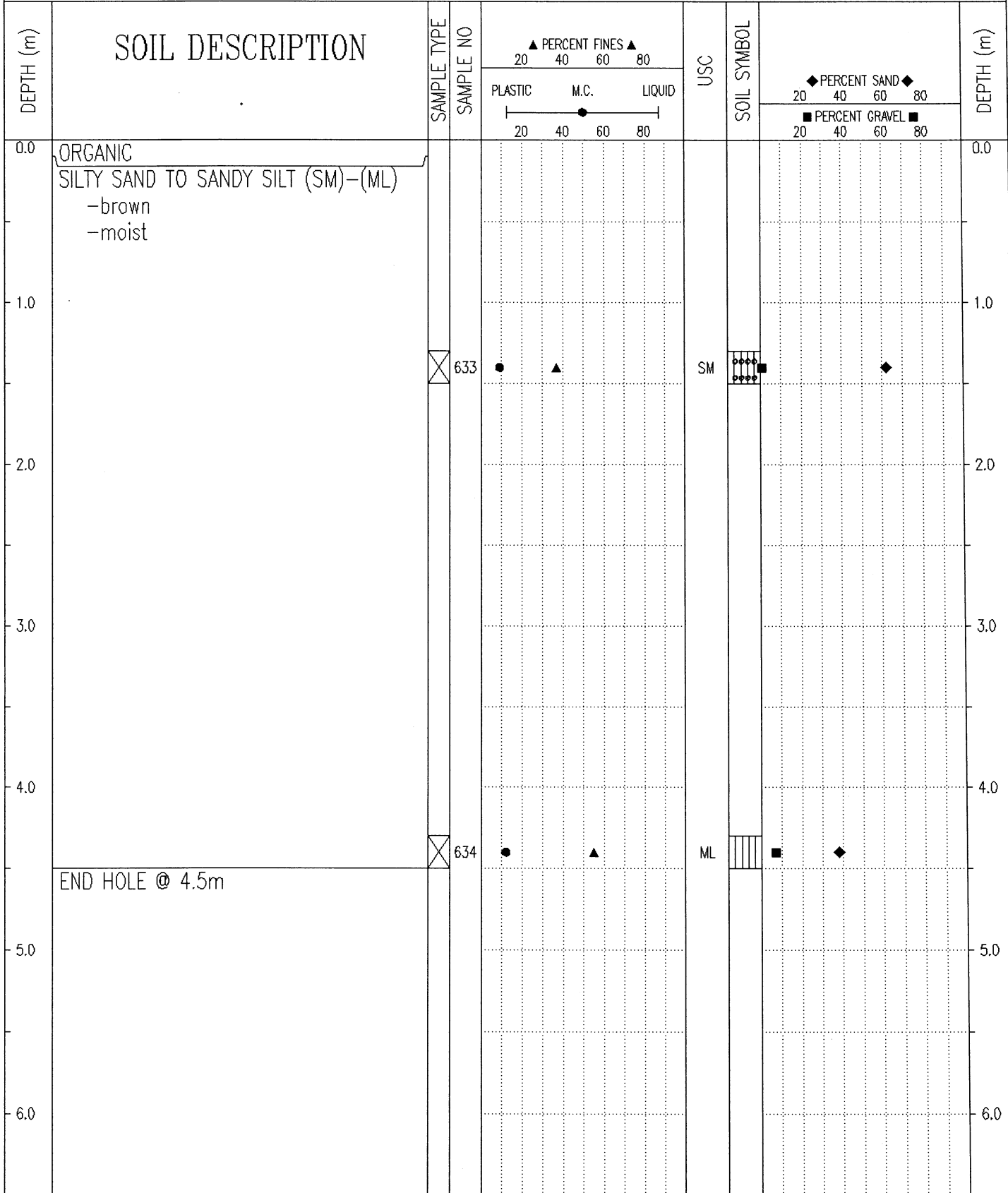
SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-358
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+700 15M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 01/08/07
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-360
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+700 15M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 01/08/07
Fig. No:	Page 1 of 1

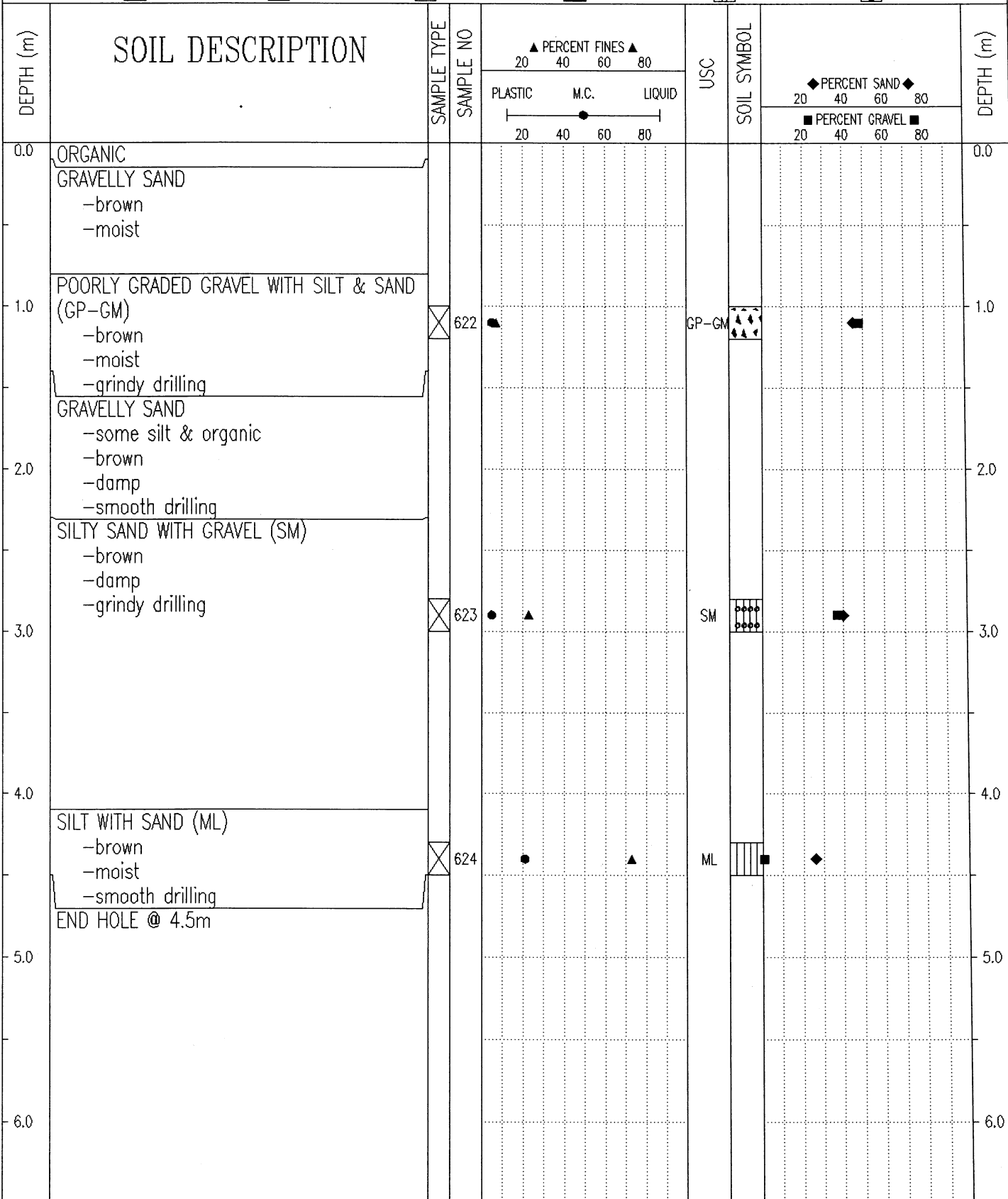
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-357							
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361							
B40-L DRILL 6" AUGERS		LOCATION: 1733+775 2M LT		ELEVATION: 0.00 (m)							
SAMPLE TYPE		S.P.T.		AUGER		BULK		TUBE		CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (m)			
0.0	ORGANIC							0.0			
	ORGANIC / SAND -brown -moist										
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -grindy drilling							1.0			
		⊗	627	▲	GP-GM	◆					
2.0								2.0			
3.0	SILT (ML) -some sand -some organic -brown -moist to wet -smooth drilling							3.0			
4.0								4.0			
		⊗	628	●	ML	◆					
5.0	END HOLE @ 4.5m							5.0			
6.0								6.0			

Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/07

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-355
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+880 C.L.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.

COMPLETION DEPTH: 4.5 m

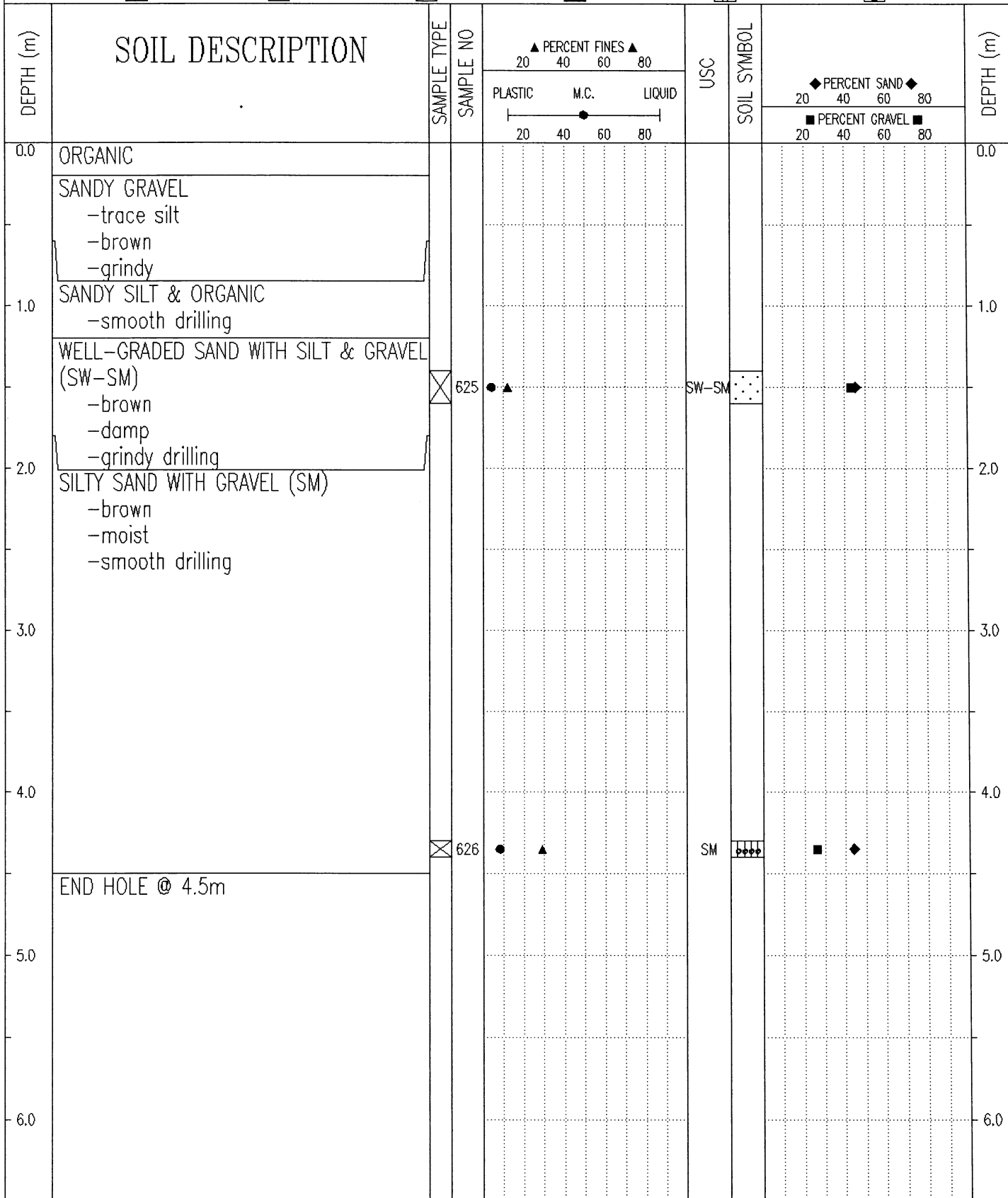
REVIEWED BY:

COMPLETE: 01/08/07

Fig. No:

Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-356
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+880 15M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	

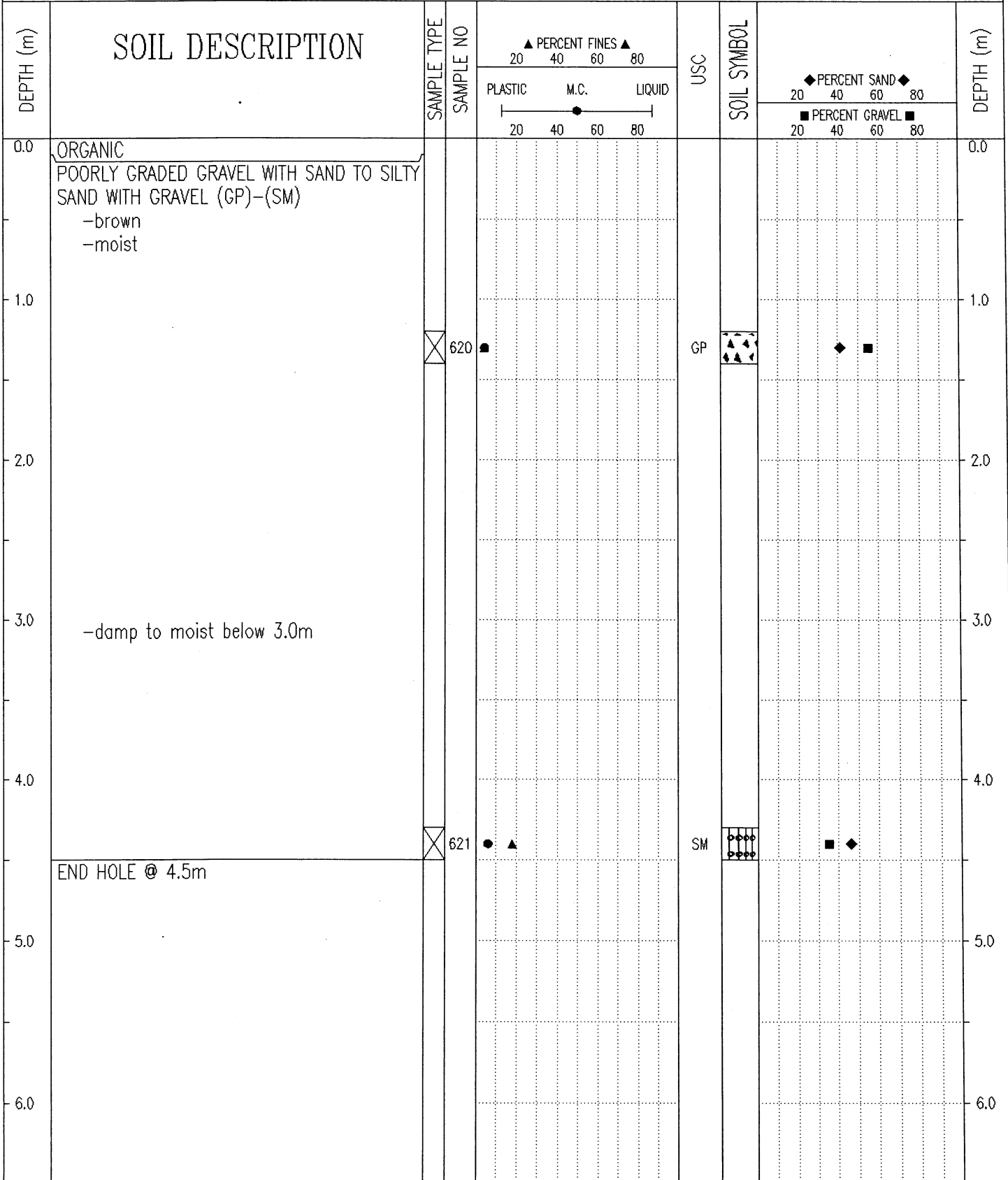


Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/07

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-354
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1733+880 15M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE

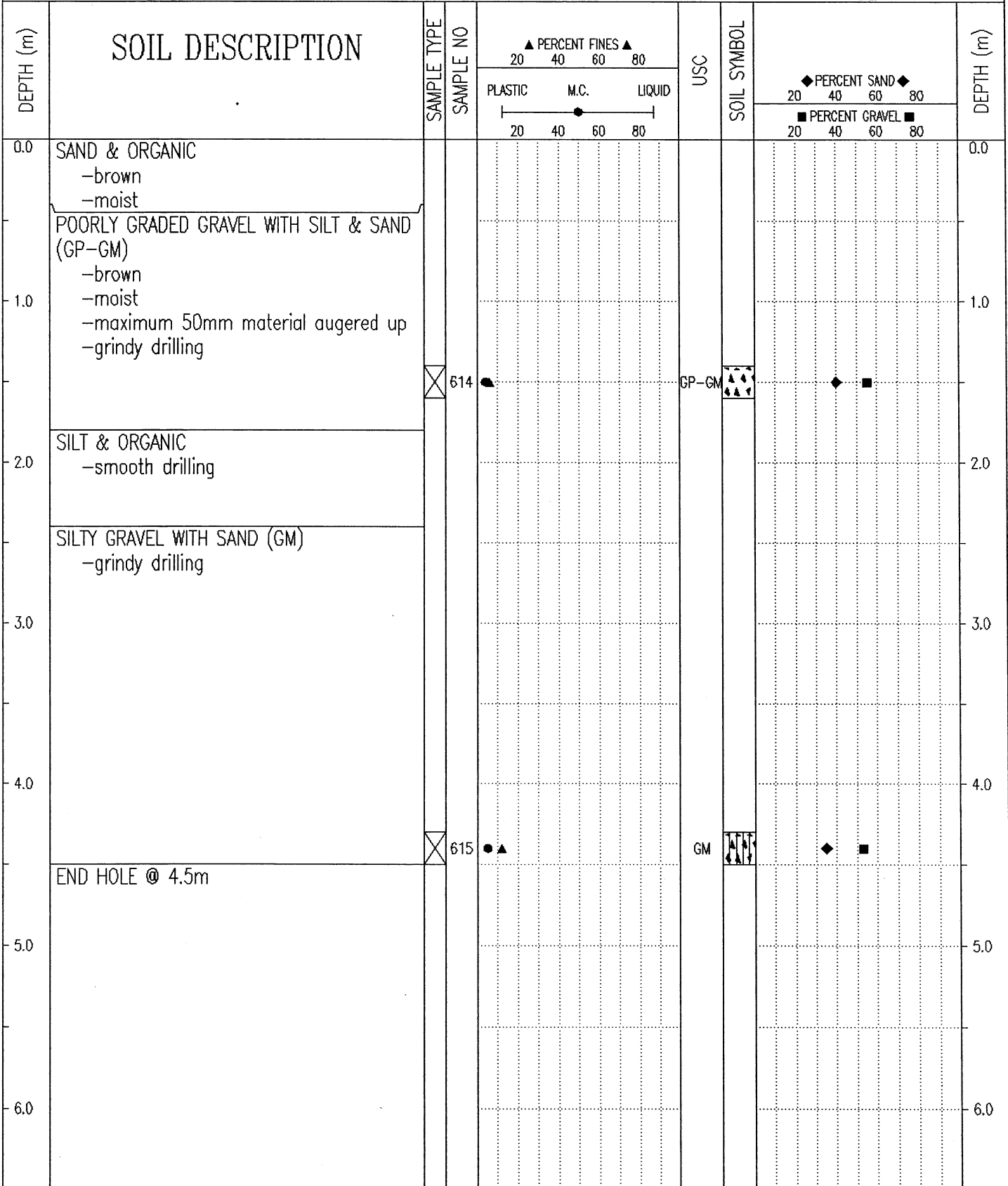


Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 01/08/07
Fig. No:	Page 1 of 1

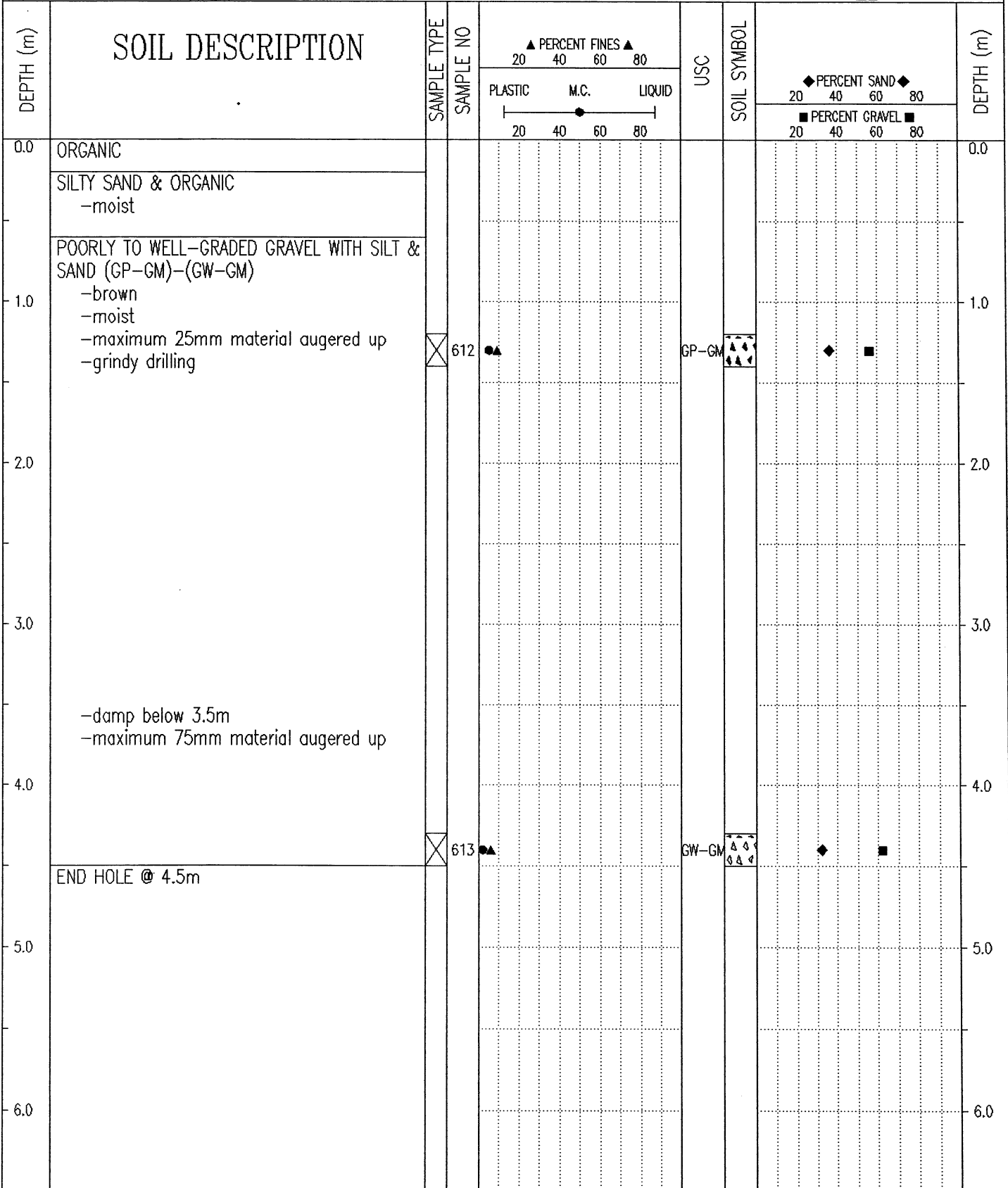
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-353						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1734+025 BK; 1738+163 AH 3m RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC -some sand									0.0
	SANDY GRAVEL -brown -moist									
1.0	SANDY SILT & ORGANIC (ML) -brown -moist -smooth drilling	<input checked="" type="checkbox"/>	618	●	▲	ML	▨	◆		1.0
2.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -damp -grindy drilling									2.0
3.0		<input checked="" type="checkbox"/>	619	●	▲	SW-SM	▨	◆	■	3.0
4.0										4.0
5.0	END HOLE @ 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.		COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:		COMPLETE: 01/08/07				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-351
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1734+135 BK; 1738+273 AH C.L.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/07
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-350
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1734+135 BK; 1738+273 AH 15m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

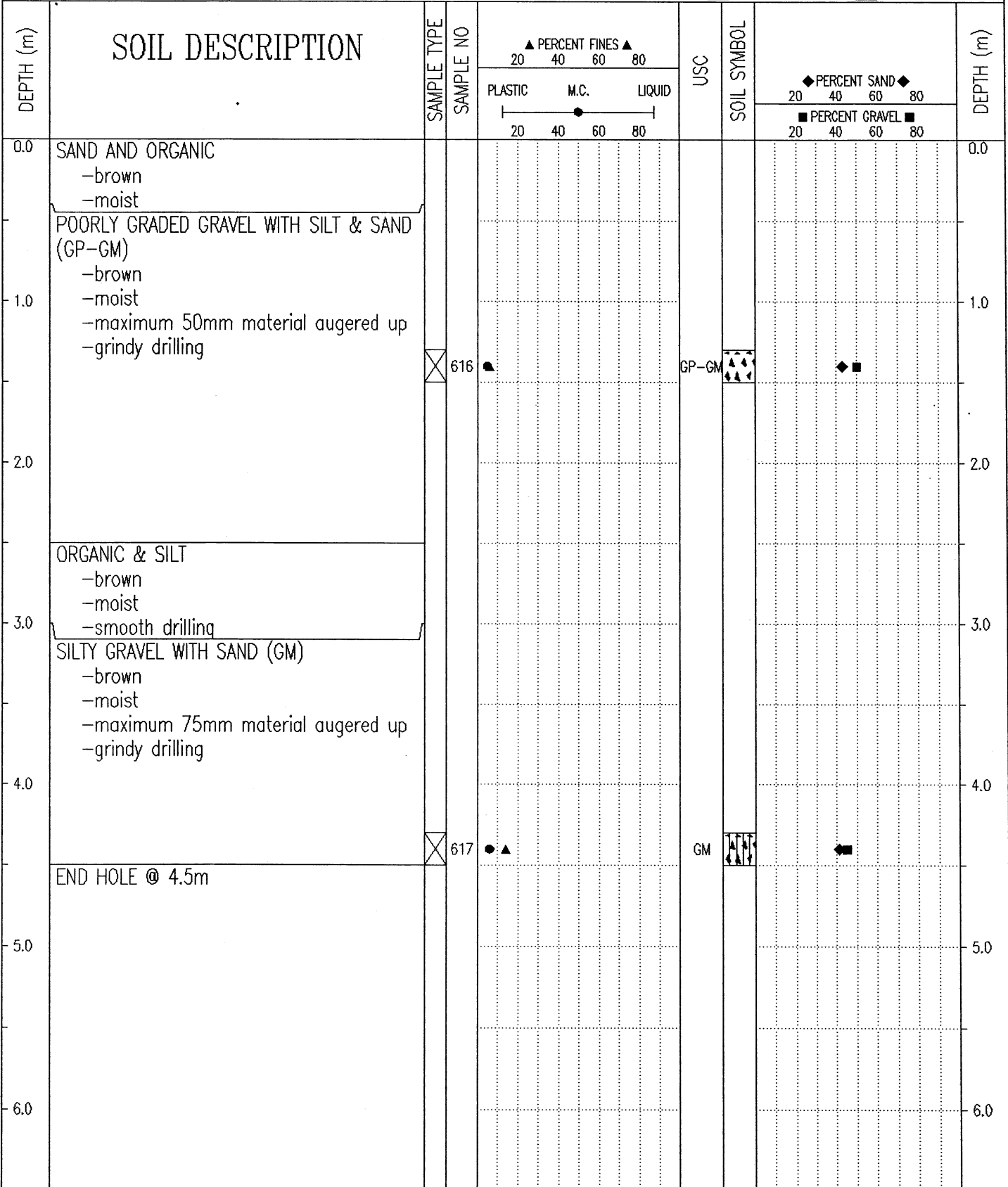


Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/06

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-352
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1734+140 BK; 1738+278 AH 15m RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

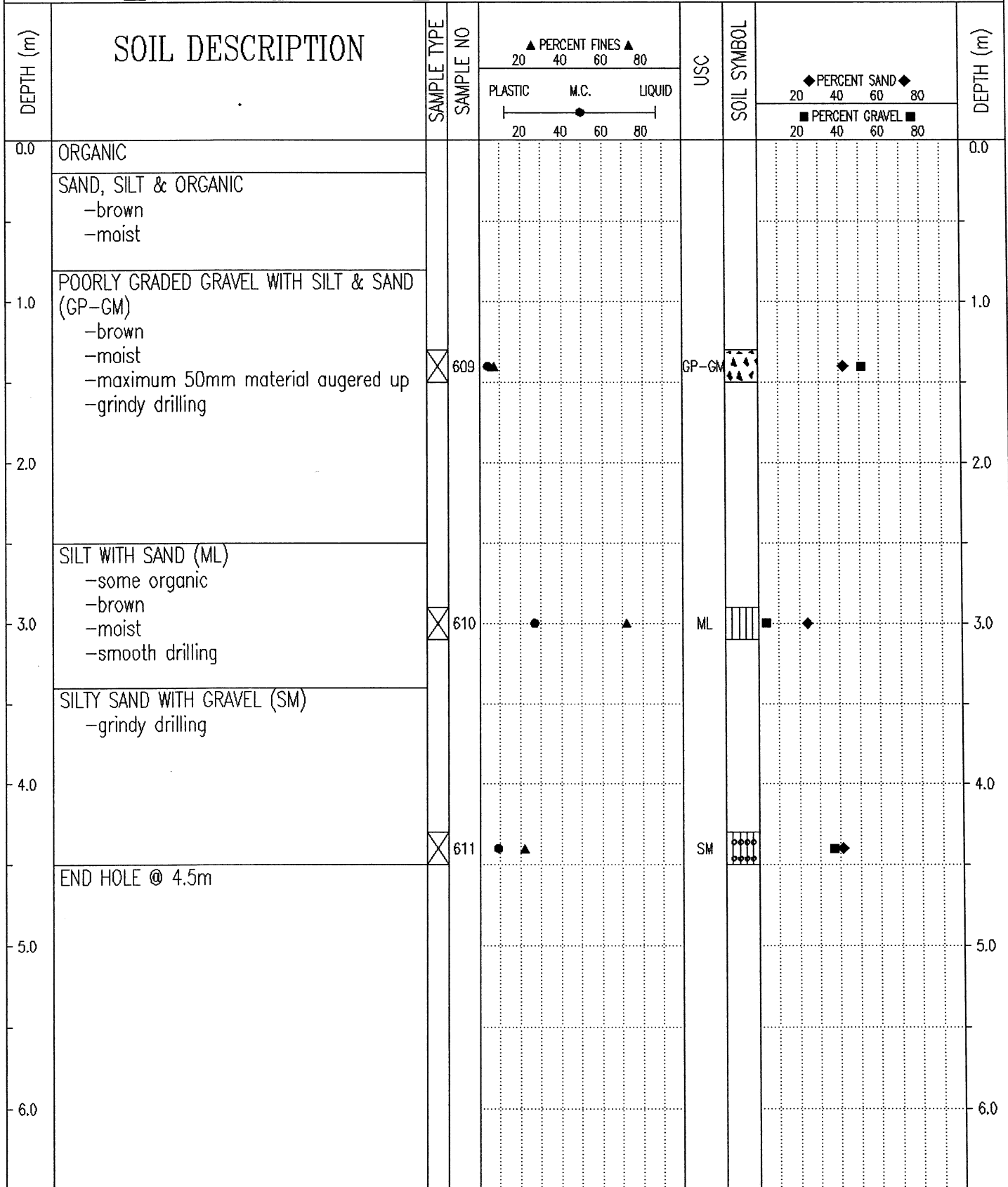


Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/07

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-349
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1734+202 BK; 1738+340 AH 33m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 01/08/06
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-347								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1734+303 BK; 1738+441 AH C.L.		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
				<input type="checkbox"/> BULK								
				<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	SANDY ORGANIC & SILT -brown -wet											0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -grindy drilling											1.0
2.0		<input checked="" type="checkbox"/>	604	▲				GP-GM	▲	◆	■	2.0
3.0												3.0
4.0												4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	605	▲				GP-GM	▲	◆	■	5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.				COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:				COMPLETE: 01/08/06				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-348								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1734+306 BK; 1738+444 AH 40m LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20    40    60    80 PLASTIC    M.C.    LIQUID  ----- ----- -----  20    40    60    80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20    40    60    80 ■ PERCENT GRAVEL ■ 20    40    60    80		DEPTH (m)		
0.0	SAND & ORGANIC	X	606	▲		SM		◆		0.0		
1.0	SILTY SAND (SM) -light brown -damp -grindy drilling -smooth drilling 1.0 - 1.8m											1.0
2.0	SILTY SANDY WITH GRAVEL TO WELL-GRADED SAND WITH SILT & GRAVEL (SM)-(SW-SM) -light brown -damp -grindy drilling											2.0
3.0		X	607	▲		SM		◆		3.0		
4.0		X	608	▲		SW-SM		◆		4.0		
5.0	END HOLE @ 4.5m											
6.0												
Government of Yukon Transportation Engineering				LOGGED BY: D.T. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/08/06		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-346						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1734+400 BK; 1738+538 AH 11m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC    M.C.    LIQUID  -----●-----  20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80		DEPTH (m)
0.0	ORGANIC & SILT -brown -moist									0.0
1.0	SILTY SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SILTY & SAND (SM)-(GP-GM) -brown - orange -oxidized -grindy drilling	<input checked="" type="checkbox"/>	602	● ▲		SM	◆ ■			1.0
2.0										2.0
3.0										3.0
4.0	-no oxidation below 3.5m									4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	603	● ▲		GP-GM	◆ ■			5.0
6.0										6.0

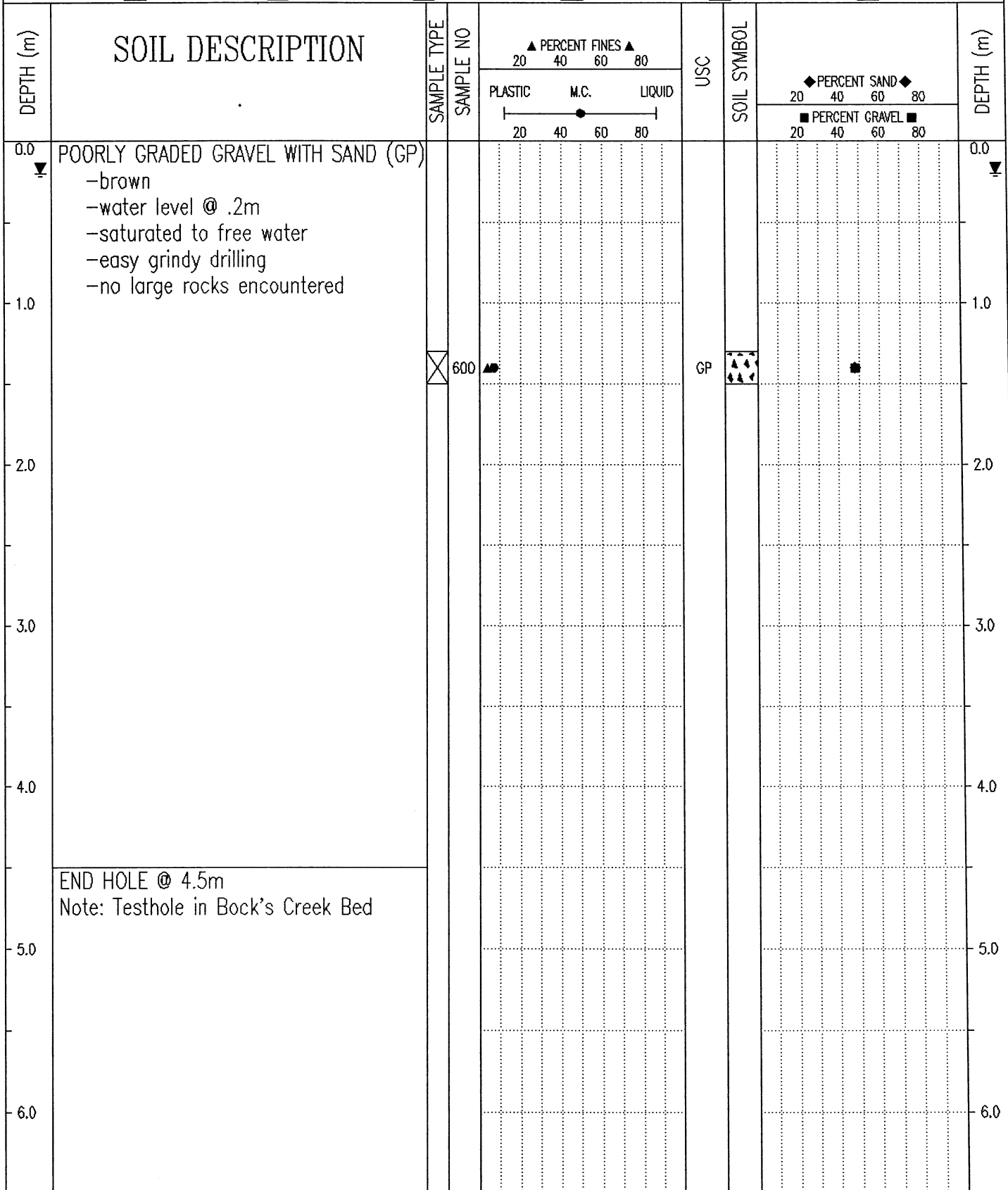
Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/06

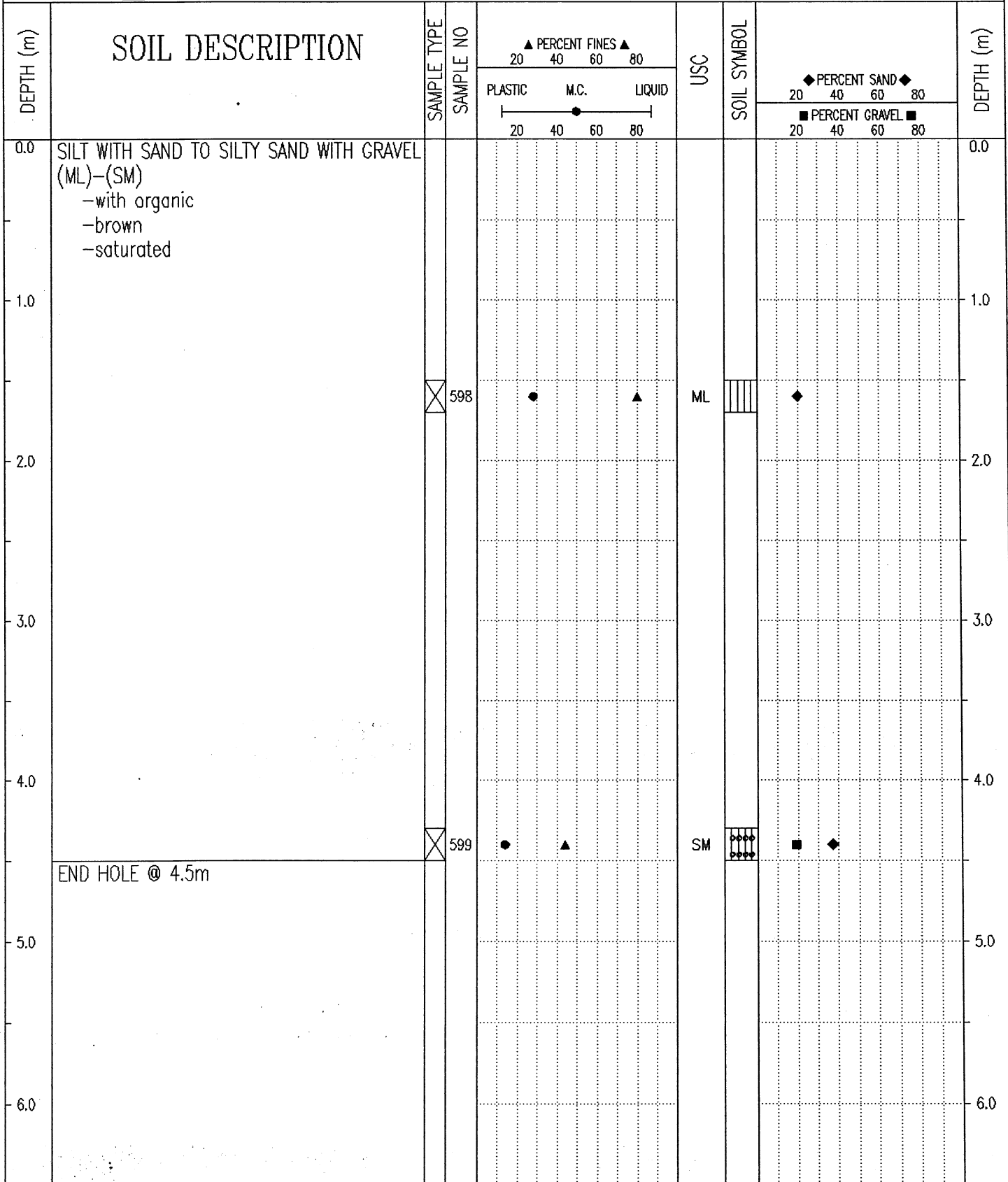
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-345						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1734+598 BK; 1738+736 AH 14m LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	GRAVELLY SAND -brown -moist	X	601				GP-GM			0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -grey -damp -grindy drilling									
2.0										2.0
3.0	SILT AND ORGANIC -brown - black -saturated -smooth drilling									3.0
4.0	GRANULAR MATERIAL SUSPECTED -sample washed off auger -H2O level @ 3.0m -some grindy drilling									4.0
5.0	END HOLE @ 4.5m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T. REVIEWED BY:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/08/06				Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-344
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1734+661 BK; 1738+799 AH 69m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/06
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-343
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1734+776 Bk; 1738+914 AH 32m Lt	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon  
Transportation Engineering

LOGGED BY: D.T.  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 01/08/03