

GEOTECHNICAL INVESTIGATIONS

**Highway Construction
Km 1738.3 to 1750.2 Highway #1
Yukon, 2002-2003
Volume 1 of 4**

Yukon

Community and Transportation Services
Transportation Engineering Branch

Geotechnical Services

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HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION
Km 1738.3 to 1750.2
YUKON 2002-2003

ALASKA HIGHWAY #1

Highway Construction
Km 1738.3 to 1750.2
Alaska Highway #1
Yukon 2002-2003
Volume 1 of 4

This Data Package prepared for project viewing:

March, 2002

Transportation Engineering Branch
Geotechnical Services
461 Range Road
Whitehorse, Yukon

CONTENTS

Volume 1 of 4

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 1775+500 and increasing to Km 1786+500.

TEST HOLES 1292 to 1326	shown with prefix 541-
TEST HOLES 1327 to 1333	shown with prefix 542-
TEST HOLES 1334 to 1369	shown with prefix 543-
TEST HOLES 1370 to 1400	shown with prefix 544-
TEST HOLES 287 to 332	shown with prefix 611-
TEST HOLES 333 to 353	shown with prefix 612-

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 4

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 541-1292 and increasing to 612-353.

TEST HOLES 1292 to 1326	shown with prefix 541-
TEST HOLES 1327 to 1333	shown with prefix 542-
TEST HOLES 1334 to 1369	shown with prefix 543-
TEST HOLES 1370 to 1400	shown with prefix 544-
TEST HOLES 287 to 332	shown with prefix 611-
TEST HOLES 333 to 353	shown with prefix 612-

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 4

GRANULAR SOURCE Km 1738.8 RHS & LHS ALASKA HIGHWAY

Location plans and subsurface exploration and testing report sheets are provided.

Auger Testing

2001	TEST HOLES 344 & 345	shown with prefix 612-
2001	TEST HOLES 1891 to 1904	shown with prefix 622-

Backhoe Testing

2001	TEST PITS 1699 to 1713	shown with prefix 630-
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CONTENTS (continued)

Volume 4 of 4

GRANULAR SOURCE Km 1750.0 LHS ALASKA HIGHWAY

Location plans, photographs, and subsurface exploration and testing report sheets are provided.

Auger Testing

1985	TEST HOLES 32 and 37 to 40	shown with prefix 777-
2001	TEST HOLES 1948 to 1964	shown with prefix 625-

Backhoe Testing

1985	TEST PITS 108 to 112	shown with prefix 808-
1988	TEST PITS 1 to 21	shown with prefix 029-
1988	TEST PITS 22 to 39	shown with prefix 030-
2002	TEST PITS 1 to 25	shown with prefix 631-

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1738.3 to 1750.2
YUKON 2002-2003

ALASKA HIGHWAY #1

INTRODUCTION

GEOTECHNICAL INVESTIGATION DATA

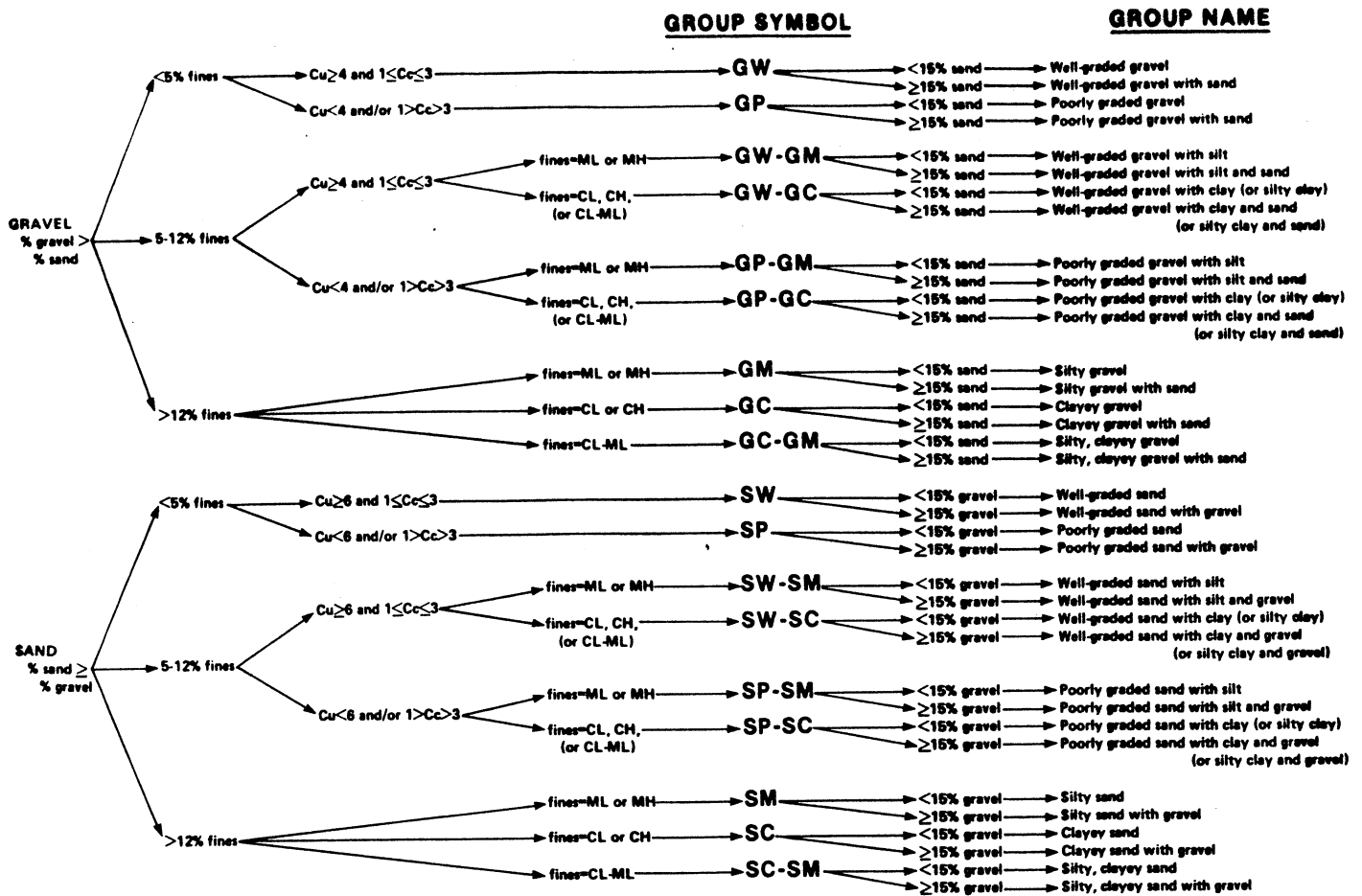
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

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.

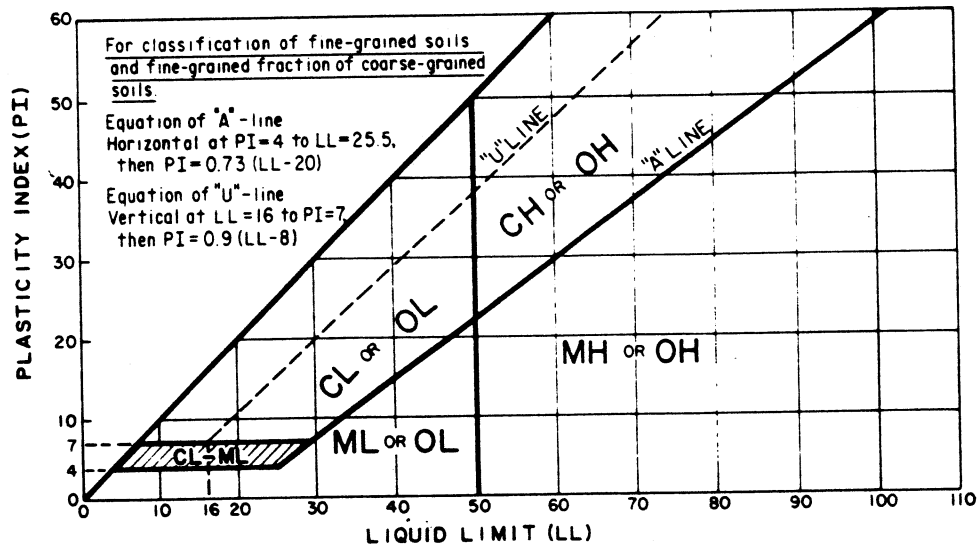
The sample identification and laboratory testing data is provided to give detailed physical properties of selected retrieved samples within the subsurface profile. ***These tests may be conducted on disturbed samples and may exhibit properties different from the native materials. The sample classification 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.

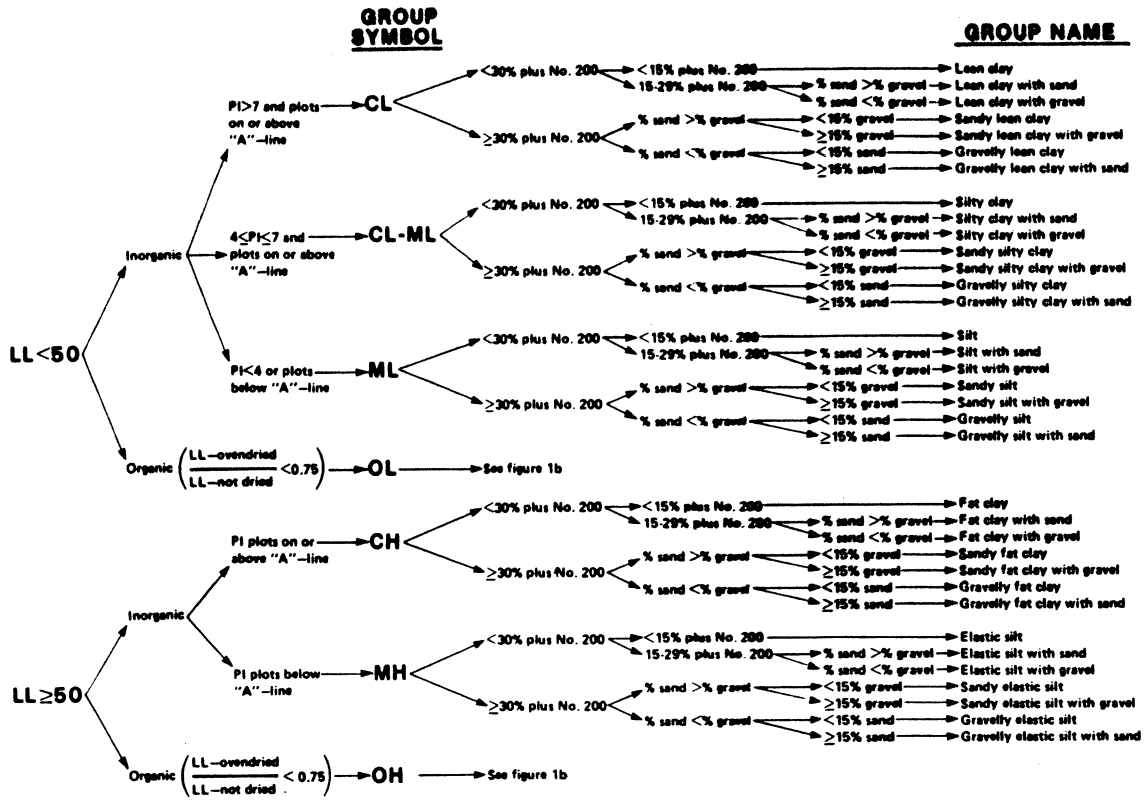
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions at the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



Flow chart for classifying coarse-grained soil.



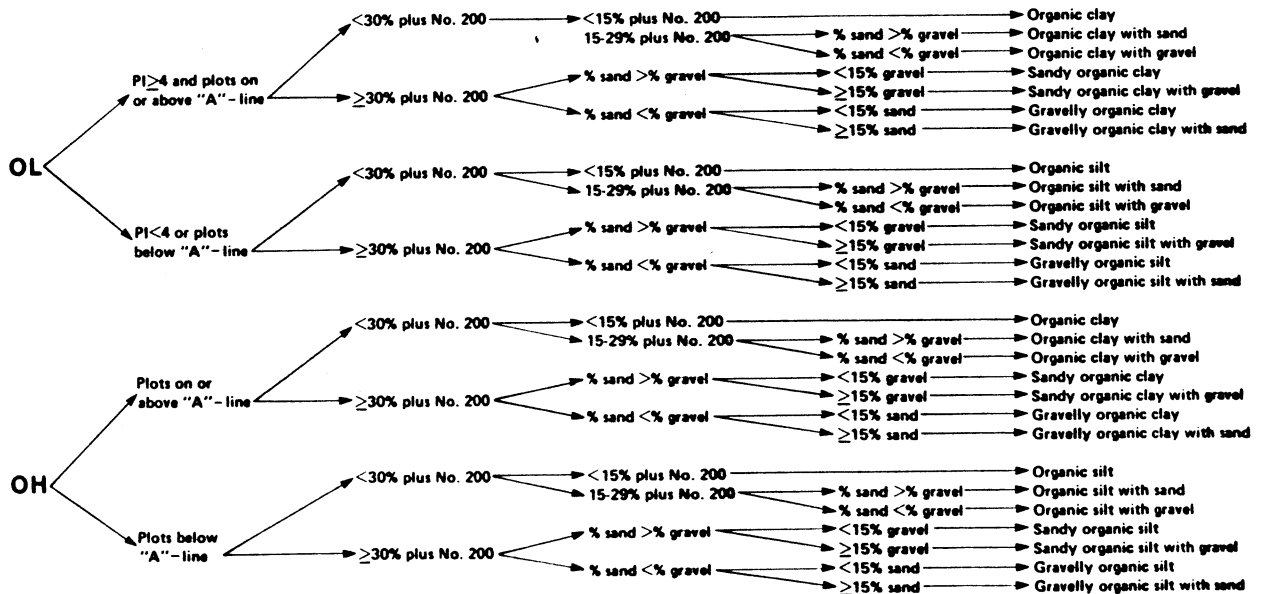
Plasticity chart.



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 ^a				SOIL CLASSIFICATION	
				GROUP SYMBOL	GROUP NAME ^b
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 ^c	$C_u \geq 4$ and $1 \leq C_c \leq 3$ ^e	GW	Well-graded gravel ^f
			$C_u < 4$ and/or $1 > C_c > 3$ ^e	GP	Poorly graded gravel ^f
		GRAVELS WITH FINES More than 12% fines ^c	Fines classify as ML or MH	GM	Silty gravel ^{f,g,h}
			Fines classify as CL or CH	GC	Clayey gravel ^{f,g,h}
	SANDS 50% or more of coarse fraction passes No. 4 sieve	CLEAN SANDS Less than 5% fines ^d	$C_u \geq 6$ and $1 \leq C_c \leq 3$ ^e	SW	Well-graded sand ⁱ
			$C_u < 6$ and/or $1 > C_c > 3$ ^e	SP	Poorly graded sand ⁱ
SANDS WITH FINES More than 12% fines ^d		Fines classify as ML or MH	SM	Silty sand ^{g,h,i}	
		Fines classify as CL or CH	SC	Clayey sand ^{g,h,i}	
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 ^j	CL	Lean clay ^{k,l,m}
			PI < 4 or plots below "A" line ^j	ML	Silt ^{k,l,m}
		organic	Liquid limit - oven dried < 0.75	OL	Organic clay ^{k, l, m, n}
			Liquid limit - not dried		Organic silt ^{k, l, m, o}
	SILTS AND CLAYS Liquid limit 50% or more	inorganic	PI plots on or above "A" line	CH	Fat clay ^{k,l,m}
			PI plots below "A" line	MH	Elastic silt ^{k,l,m}
organic		Liquid limit - oven dried < 0.75	OH	Organic clay ^{k, l, m, p}	
		Liquid limit - not dried		Organic silt ^{k, l, m, q}	
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

		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)
				20	40	60			80	20	40	
				PLASTIC	M.C.	LIQUID		20	40	60	80	
				20	40	60	80	20	40	60	80	
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:			Page 1 of 1					

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1738.3 to 1750.2
YUKON 2002-2003

ALASKA HIGHWAY #1

**CENTRELINE TESTING
1738+163 to 1750+300
ALASKA HIGHWAY**

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 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 -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	<input checked="" type="checkbox"/>	619				SW-SM					2.0
3.0												3.0
4.0												4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0

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Transportation Engineering

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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/08/07

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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		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	SAND & ORGANIC -brown -moist										0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -maximum 50mm material augered up -grindy drilling										1.0
2.0	SILT & ORGANIC -smooth drilling										2.0
3.0	SILTY GRAVEL WITH SAND (GM) -grindy drilling										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: 612-350								
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												
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 & ORGANIC -moist											0.0
1.0	POORLY TO WELL-GRADED GRAVEL WITH SILT & SAND (GP-GM)-(GW-GM) -brown -moist -maximum 25mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	612	▲			GP-GM	◆	■			1.0
2.0												2.0
3.0												3.0
4.0	-damp below 3.5m -maximum 75mm material augered up											4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	613	▲			GW-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 Page 1 of 1				

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						
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	SAND AND ORGANIC -brown -moist									0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	616	●			GP-GM	◆	■	1.0
2.0										2.0
3.0	ORGANIC & SILT -brown -moist -smooth drilling									3.0
4.0	SILTY GRAVEL WITH SAND (GM) -brown -moist -maximum 75mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	617	●▲			GM	◆	■	4.0
5.0	END HOLE @ 4.5m									5.0
6.0										6.0

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Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/08/07

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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 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	
	SAND, SILT & ORGANIC -brown -moist											
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -moist -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	609				GP-GM	▲▲▲▲	◆	■	1.0	
2.0											2.0	
3.0	SILT WITH SAND (ML) -some organic -brown -moist -smooth drilling	<input checked="" type="checkbox"/>	610	●		▲	ML		◆	■	3.0	
4.0	SILTY SAND WITH GRAVEL (SM) -grindy drilling										4.0	
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	611	●		▲	SM		◆	■	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: 612-347							
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	
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 ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40		60
0.0	SAND & ORGANIC															0.0
	SILTY SAND (SM) -light brown -damp -grindy drilling -smooth drilling 1.0 - 1.8m															
1.0																1.0
	SILTY SANDY WITH GRAVEL TO WELL-GRADED SAND WITH SILT & GRAVEL (SM)-(SW-SM) -light brown -damp -grindy drilling															
2.0																2.0
3.0																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: 01/08/06								
				Fig. No:				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 ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			20	40	60		80
				20	40	60	80		20	40	60	80	
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

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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 ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60		
0.0	GRAVELLY SAND -brown -moist												0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -grey -damp -grindy drilling	<input checked="" type="checkbox"/>	601	▲			GP-GM	◆	■				1.0
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

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Fig. No:

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

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												
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 -water level @ .2m -saturated to free water -easy grindy drilling -no large rocks encountered											0.0
1.0												1.0
2.0			600					GP				2.0
3.0												3.0
4.0												4.0
5.0	END HOLE @ 4.5m Note: Testhole in Bock's Creek Bed											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: 612-343								
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 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	DEPTH (m)				
				PLASTIC	M.C.				LIQUID	◆ PERCENT SAND ◆	■ PERCENT GRAVEL ■	
0.0	SILT WITH SAND TO SILTY SAND WITH GRAVEL (ML)-(SM) -with organic -brown -saturated		598	20	40	60	80	20	40	60	80	0.0
1.0												
2.0												2.0
3.0												3.0
4.0												4.0
5.0			599									5.0
6.0												6.0
END HOLE @ 4.5m												

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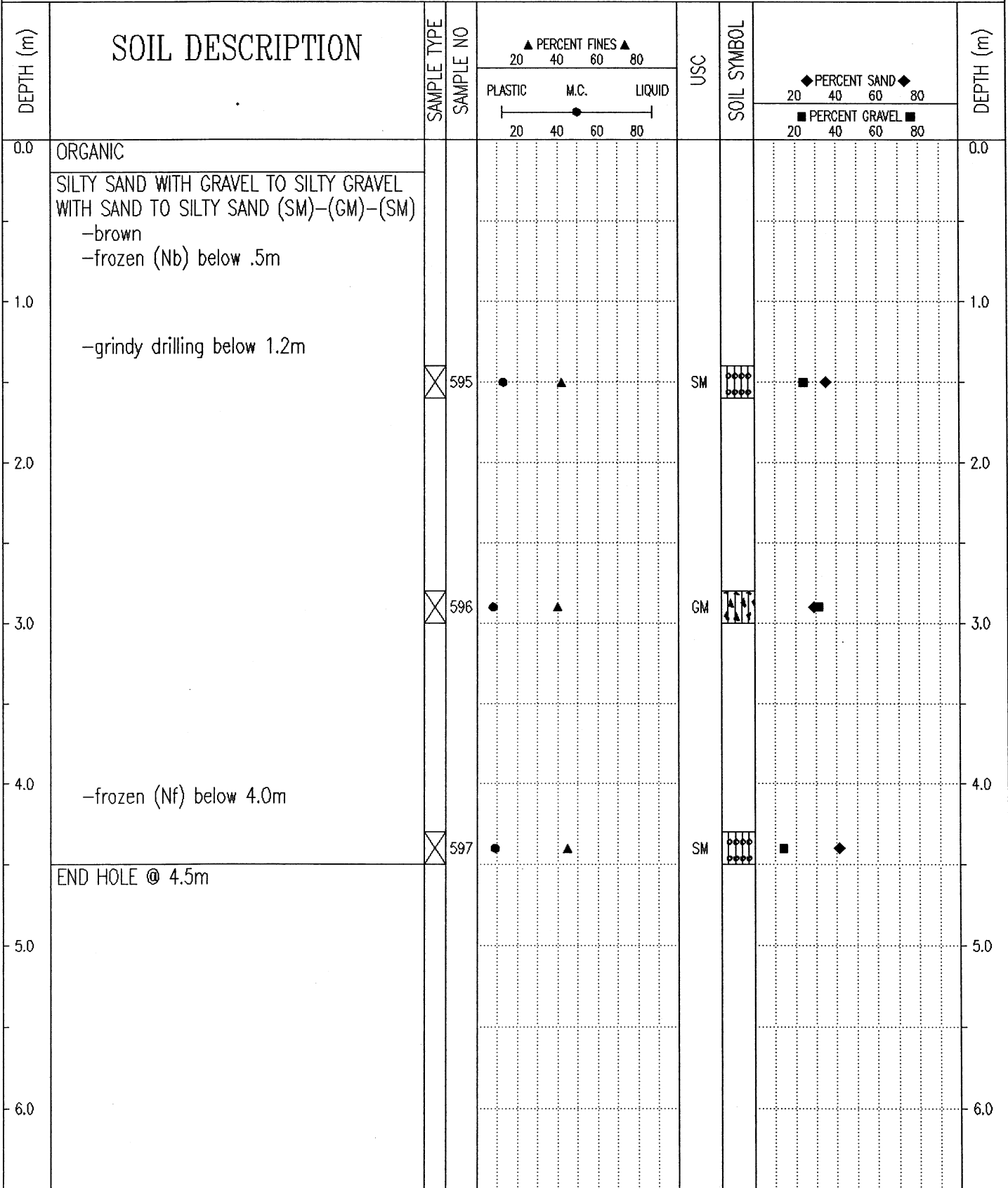
Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/08/03

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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-342
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1739+007 23.6M 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		



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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-341								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1739+104 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	40	60	
0.0	SILTY SAND TO SILTY SAND WITH GRAVEL (SM) -brown -moist											0.0
1.0												1.0
2.0												2.0
3.0												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: 01/08/03						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-340								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1739+220 12.6m 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	SANDY SILT (ML) -some organic -brown -saturated											0.0
1.0		<input checked="" type="checkbox"/>	589	●	▲		ML	▨	■	◆		1.0
2.0	SILTY SAND WITH GRAVEL (SM) -wet -grindy drilling -nearly free water 1.5m to 2.5m											2.0
3.0		<input checked="" type="checkbox"/>	590	●	▲		SM	▨	■	◆		3.0
4.0	-moist below 4.0m -contaminated by H2O from above											4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	591	●	▲		SM	▨	■	◆		5.0
6.0												6.0

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COMPLETION DEPTH: 4.5 m

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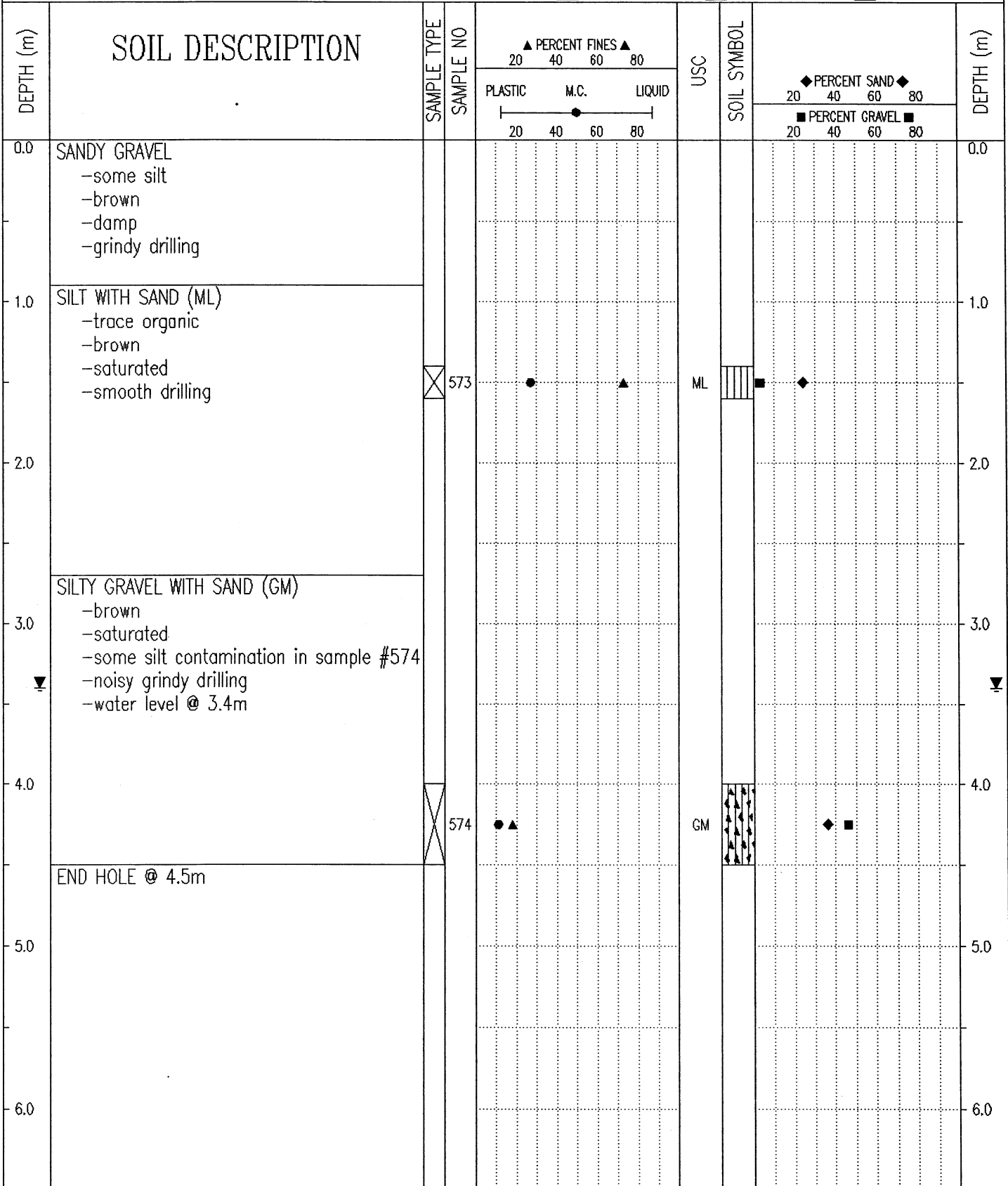
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-333								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1739+331 17.8M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> 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	SANDY GRAVEL -pumping station access roadfill -grindy drilling											0.0
1.0	SANDY SILT WITH ORGANIC -brown -saturated -smooth drilling											1.0
2.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -saturated to free water -visible water level @ 1.6m	<input checked="" type="checkbox"/>	575				GP-GM					2.0
3.0												3.0
4.0												4.0
5.0	END HOLE @ 4.5m Note: Testhole close to active water. -culvert inlet											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/08/02						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-334
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1739+335 12.3M 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)
				20	40	60			80	20	40	
0.0	No samples recovered -material washed away -grindy drilling -visible water level @ 0.5m											0.0
1.0												1.0
2.0												2.0
3.0												3.0
4.0	-small trace of silt visible on auger flights below 3.7m -smooth drilling below 3.7m											4.0
5.0	END HOLE @ 4.5m Note: Testhole close to active stream. Culvert outlet											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-332
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1739+428 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



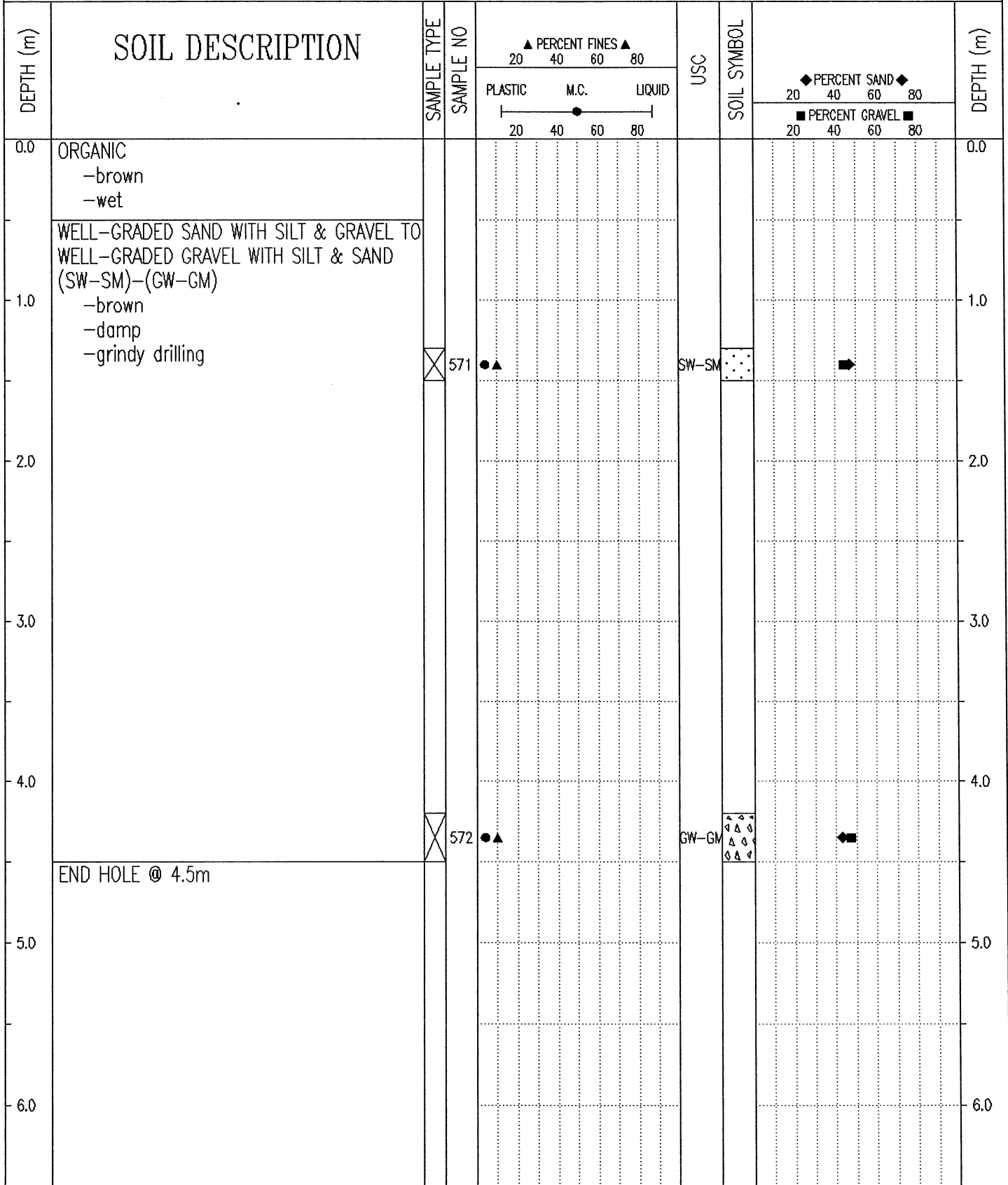
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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 01/08/02

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-330								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1739+556 13M 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			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
1.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -moist -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	569	●	▲		SM	◆	■		1.0	
2.0											2.0	
3.0											3.0	
4.0											4.0	
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	570	●	▲		GM	◆	■		4.5	
5.0											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: 01/08/02		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-331
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1739+559 20.1M 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

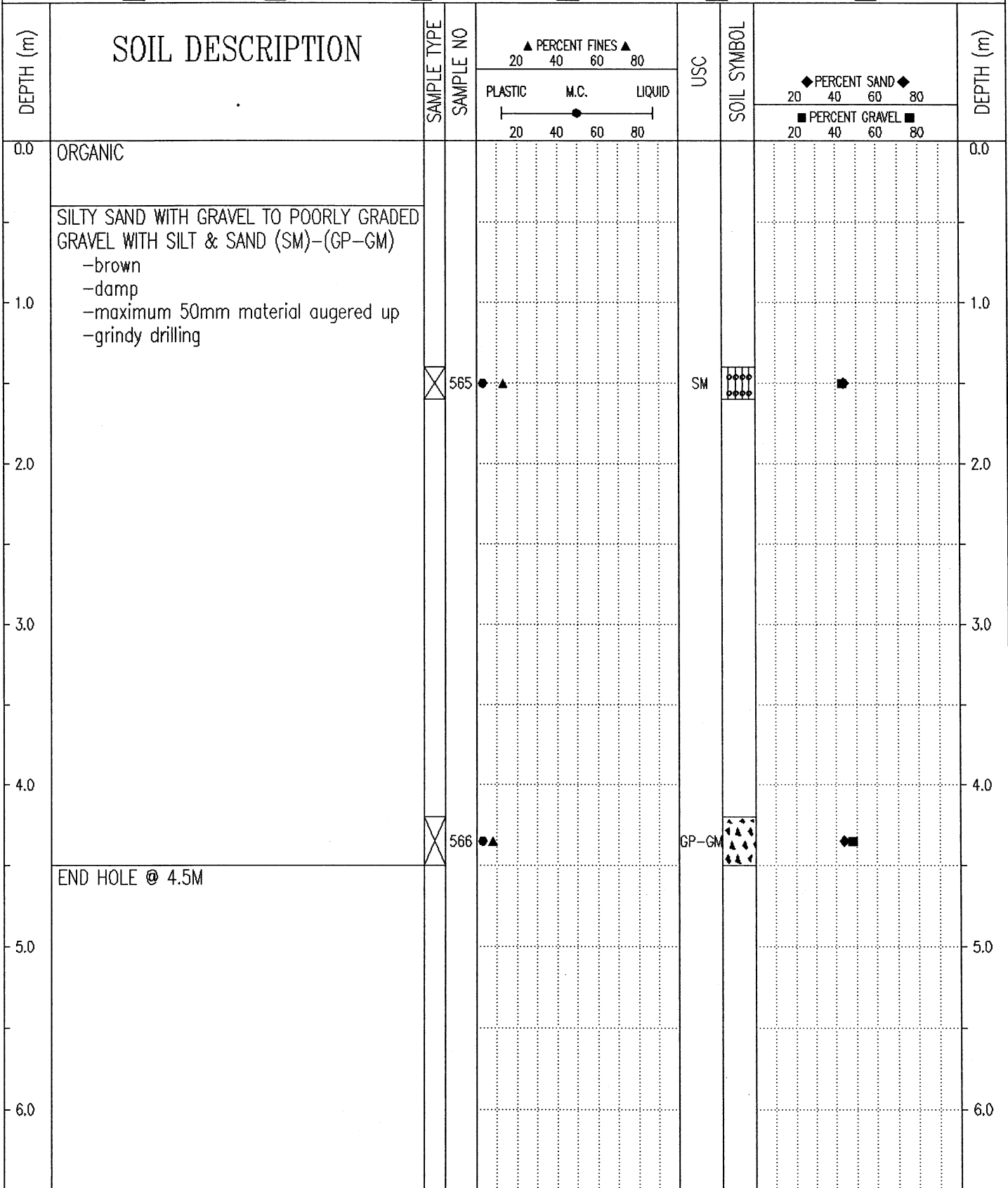


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	REVIEWED BY:	COMPLETE: 01/08/02
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-335						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1739+567 15.8M 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	ORGANIC									0.0
1.0	SILTY GRAVEL WITH SAND TO POORLY GRADED GRAVEL WITH SILT & SAND (GM)-(GP-GM) -brown -moist -maximum 75mm material augered up -grindy drilling									1.0
2.0		<input checked="" type="checkbox"/>	576	● ▲		GM	▲▲▲▲	◆		2.0
3.0										3.0
4.0										4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	335	● ▲		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: 01/08/02		Page 1 of 1		

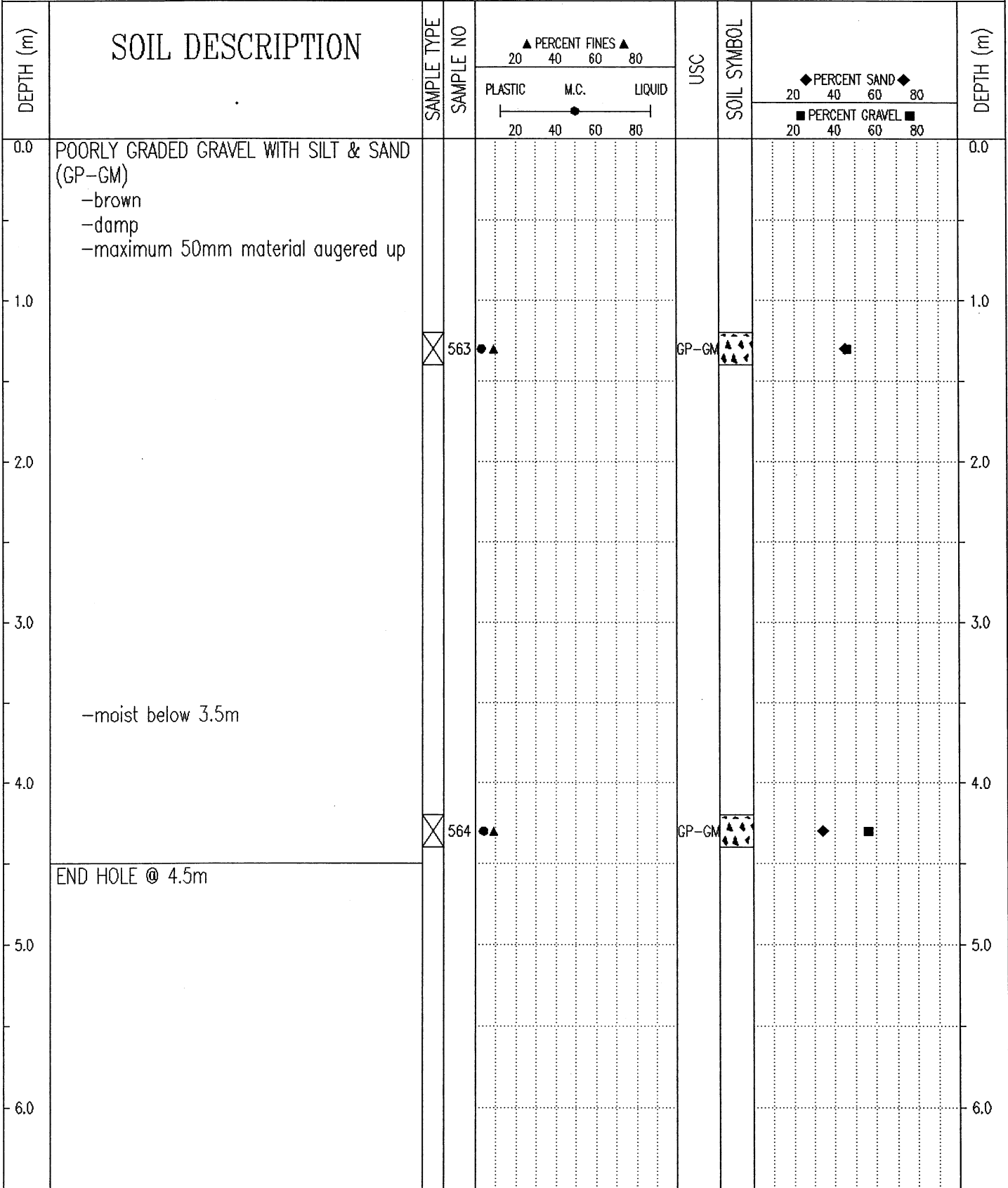
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-329											
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361											
B40-L DRILL 6" AUGERS		LOCATION: 1739+700 11.2 M LT		ELEVATION: 0.00 (m)											
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" 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)
				20	40	60			80	20	40	60	80	20	
				PLASTIC M.C. LIQUID											
				20 40 60 80					20 40 60 80			20 40 60 80			
0.0	WELL-GRADED SAND WITH SILT & GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (SW-SM)-(GP-GM) -brown -maximum 50mm material augered up -grindy drilling													0.0	
1.0														1.0	
2.0														2.0	
3.0														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. REVIEWED BY:				COMPLETION DEPTH: 4.5 m COMPLETE: 01/08/02							
				Fig. No:				Page 1 of 1							

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-328
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1739+821 19.2M 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		



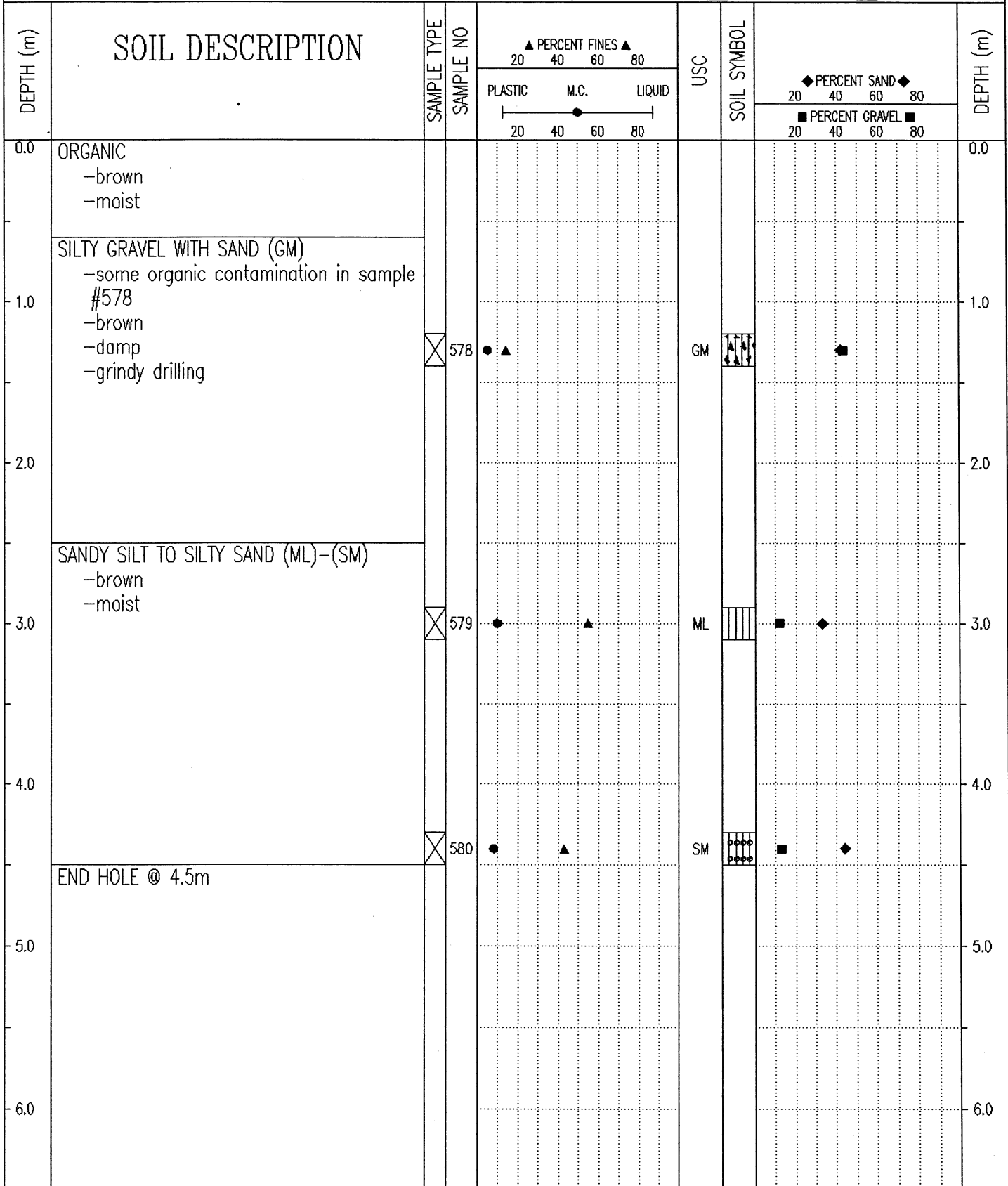
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/08/02
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-327
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1739+822 7.6M 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		



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	REVIEWED BY:	COMPLETE: 01/08/02
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-336
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1739+823 11.2M 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		



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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-326								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1739+999 8M 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 TO SILTY ORGANIC											0.0
1.0												1.0
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -moist -grindy drilling	<input checked="" type="checkbox"/>	561	●	▲		SM	▣	◆			2.0
3.0												3.0
4.0												4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	562	●	▲		GM	▣	◀			5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/08/02

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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 612-337								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1740+005 13.8M 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			PERCENT GRAVEL ■			
0.0	SILTY SAND (SM) -brown -moist										0.0	
1.0		<input checked="" type="checkbox"/>	581	●	▲		SM	▨	◆	■	1.0	
2.0	SILT & ORGANIC -brown -wet										2.0	
3.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -wet -grindy drilling										3.0	
4.0		<input checked="" type="checkbox"/>	582	●	▲		SM	▨	◆	■	4.0	
5.0		<input checked="" type="checkbox"/>	583	●	▲		GM	▨	◆	■	5.0	
6.0	END HOLE @ 4.5m										6.0	

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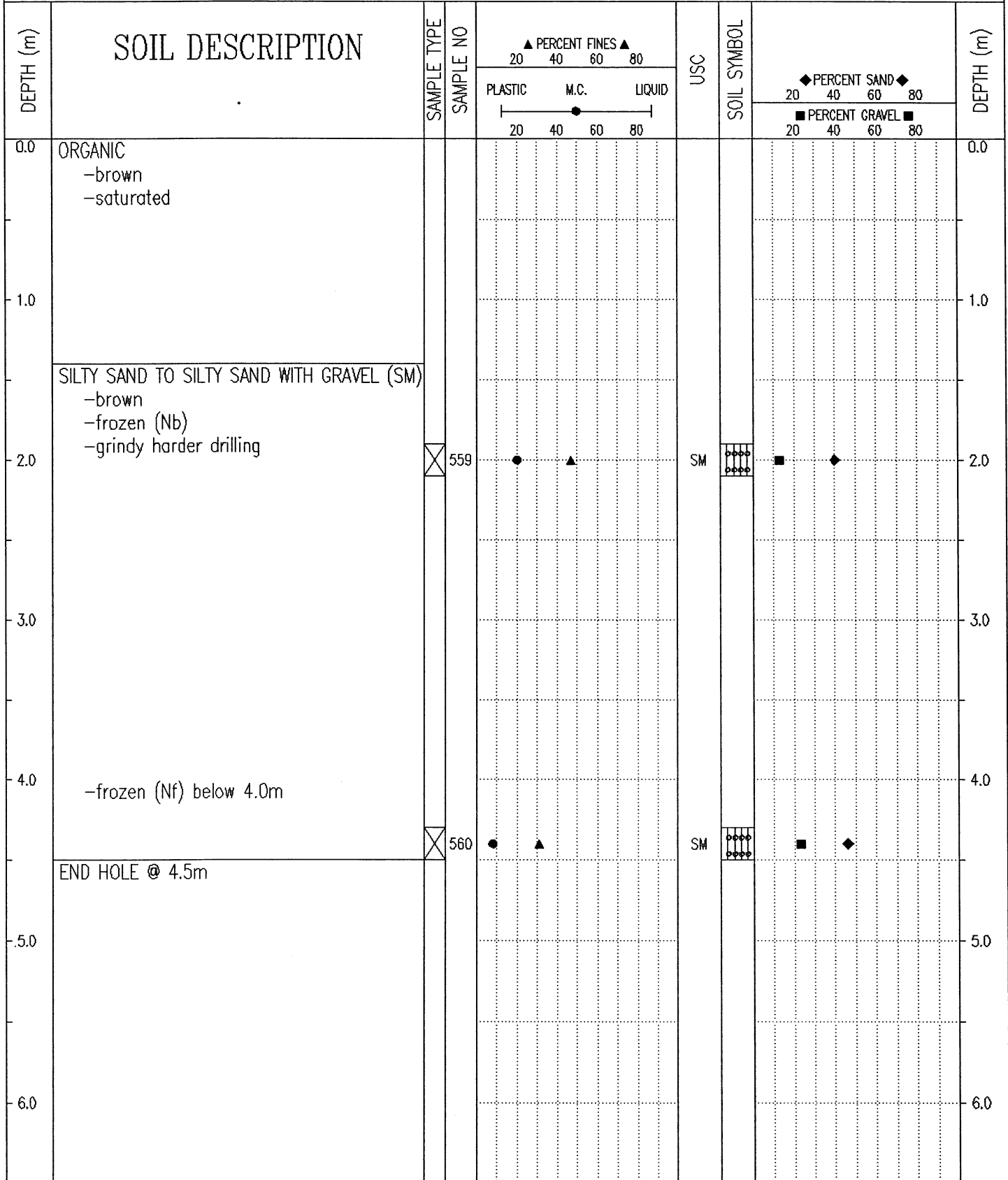
Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/08/02

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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-325
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1740+009 30.3 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

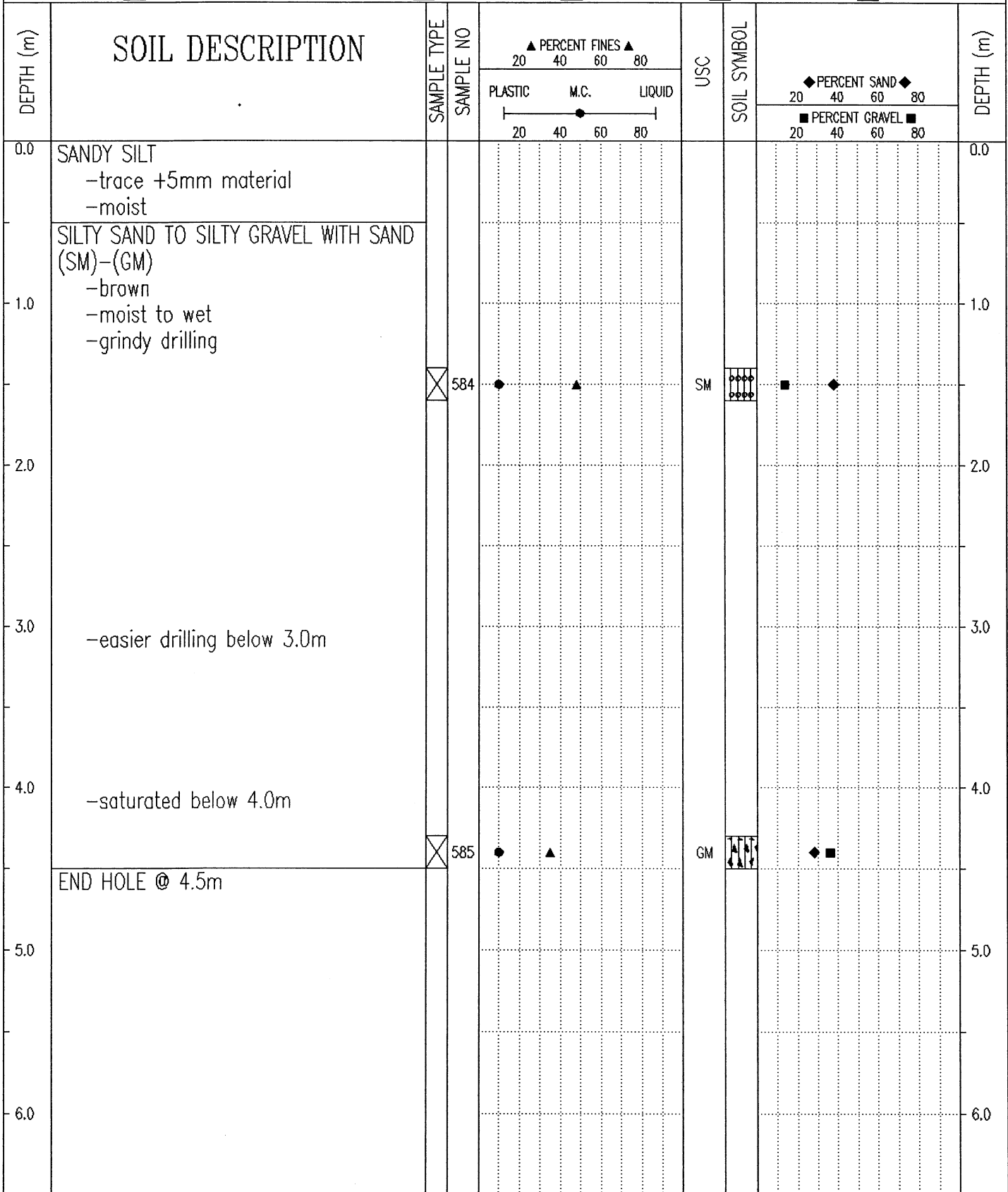


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REVIEWED BY:	COMPLETE: 01/08/02
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-324								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
140-L DRILL 6" AUGERS		LOCATION: 1740+128 15.9M 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											0.0
	SILTY SAND WITH GRAVEL (SM)											
	-brown											
	-frozen (Vx) below 0.5m											
	-harder material below 0.5m											
1.0		<input checked="" type="checkbox"/>	558	●	▲		SM	◆◆◆◆	■	◆		1.0
	-frozen (Nb) below 1.4m											
2.0												2.0
3.0												3.0
4.0	END HOLE @ 4.0m	<input checked="" type="checkbox"/>	558A	●	▲		SM	◆◆◆◆	■	◆		4.0
	-refusal											
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.				COMPLETION DEPTH: 4.0 m				
				REVIEWED BY:				COMPLETE: 01/08/01				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 612-338
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1740+258 14.4M 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: 01/08/02
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-322								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1740+265 11.4M 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								
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 (ML) -brown -moist											0.0
1.0												1.0
2.0												2.0
3.0	SILTY GRAVEL WITH SAND (GM) -brown -moist -more +5mm material											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: 01/08/01				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-323							
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361							
B40-L DRILL 6" AUGERS		LOCATION: 1740+269 18.4LT		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	
0.0	ORGANIC										0.0
	SILTY SAND WITH GRAVEL (SM)										
	-brown										
	-moist to wet										
1.0		<input checked="" type="checkbox"/>	556	●	▲		SM	◆	◆		1.0
	-grindy hard drilling below 1.5m										
	-frozen (Nb) below 1.5m										
2.0											2.0
3.0											3.0
	-more gravel below 3.5m										
4.0											4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	557	●	▲		SM	◆	◆		5.0
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.		COMPLETION DEPTH: 4.5 m					
				REVIEWED BY:		COMPLETE: 01/08/01					
				Fig. No:				Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-321								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1740+423 23.9M 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC										0.0	
	SANDY SILT WITH GRAVEL (ML) -grey											
1.0	-harder drilling below 0.8m -frozen (Vx) below 0.8m										1.0	
2.0			552				ML				2.0	
3.0	SILTY SAND (SM) -frozen (Nf)										3.0	
4.0			553				SM				4.0	
5.0	END HOLE @ 4.5m										5.0	
6.0											6.0	

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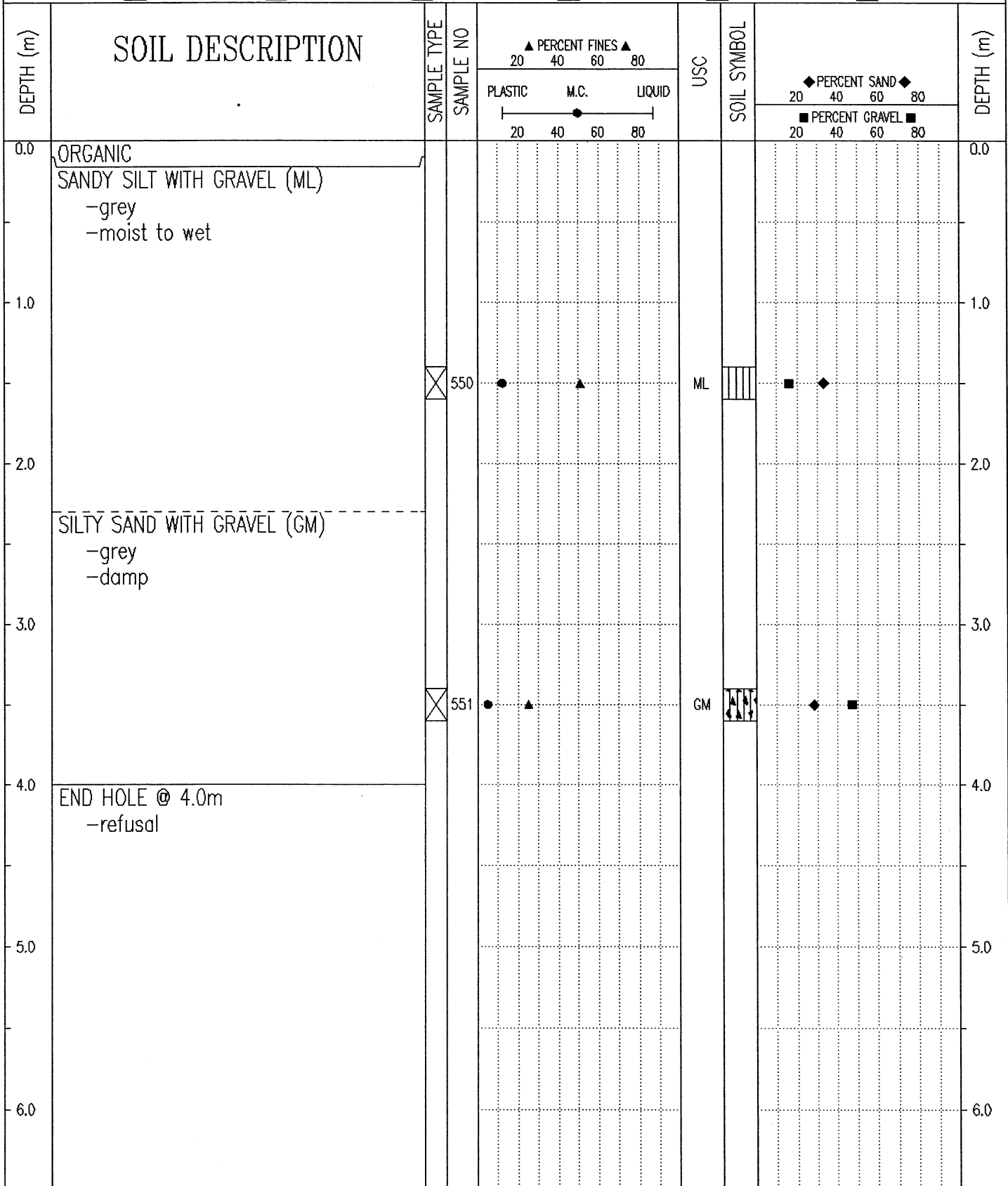
Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 01/08/01

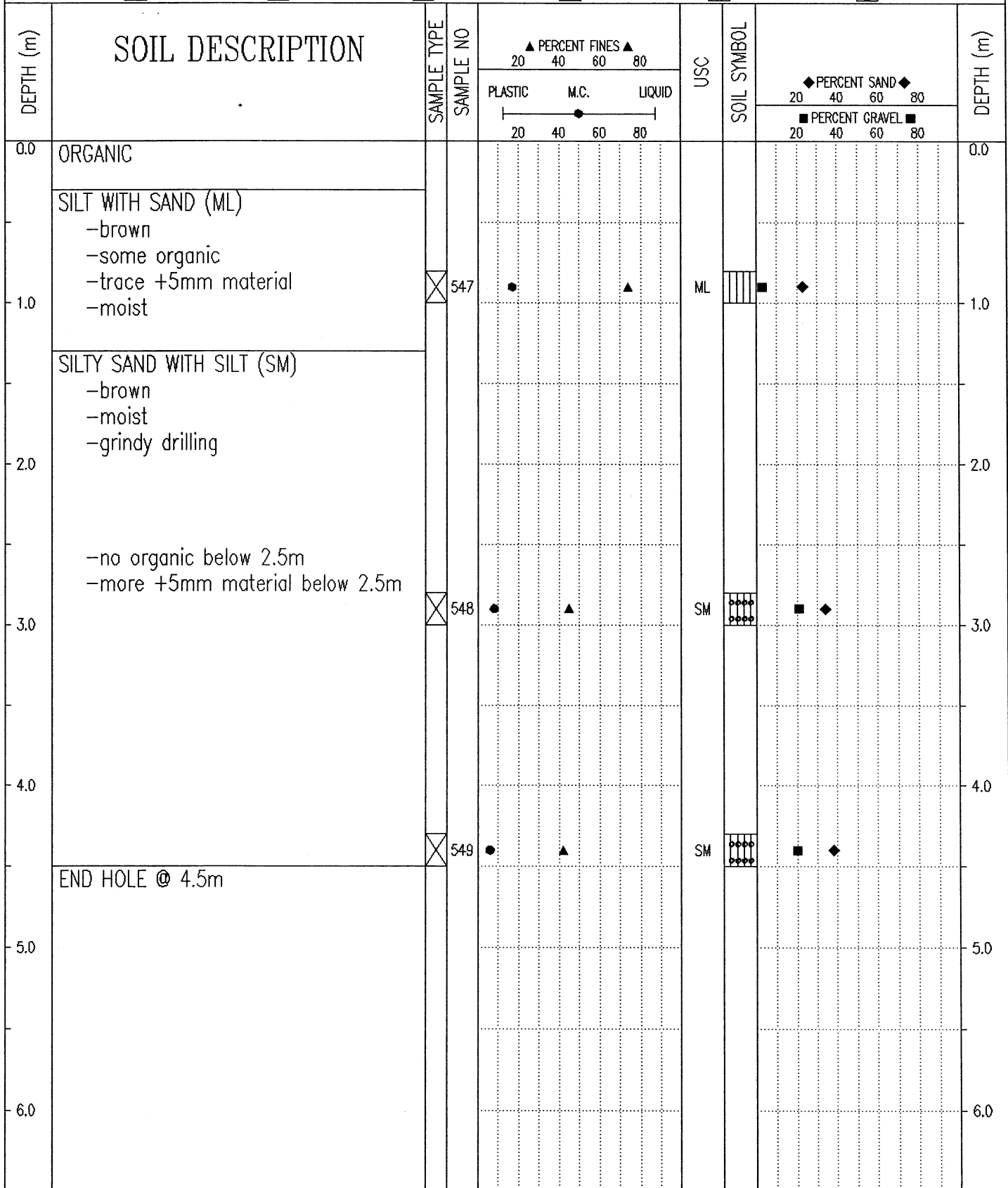
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-320
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1740+555 12m LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



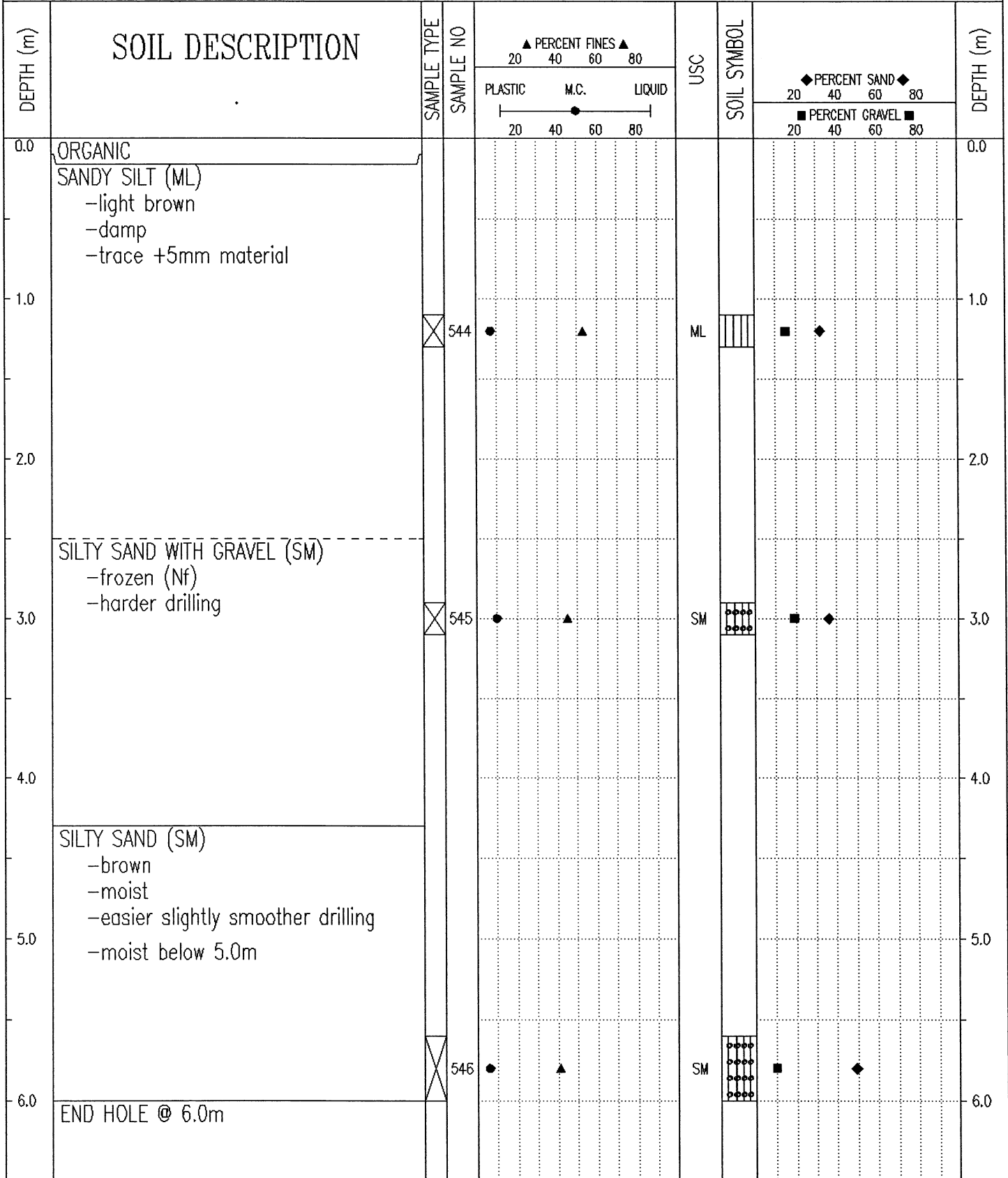
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.0 m
	REVIEWED BY:	COMPLETE: 01/08/01
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-319
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1740+750 14.9M 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: 01/08/01
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-318
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1740+852 19.7M 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	



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REVIEWED BY:	COMPLETE: 01/07/31
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-317								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1740+971 21.9M 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 SILTY SAND WITH GRAVEL (SM) -brown -damp -maximum 25mm material augered up											0.0
1.0												1.0
2.0												2.0
3.0	ORGANICS & SANDY SILT (ML) -brown -saturated -trace +5mm material -smooth easy drilling		542	●	▲		ML	▣	◆			3.0
4.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -maximum 25mm material augered up -grindy drilling											4.0
5.0												5.0
6.0												6.0
	END HOLE @ 4.5m		543	●	▲		SM	▣	◆			

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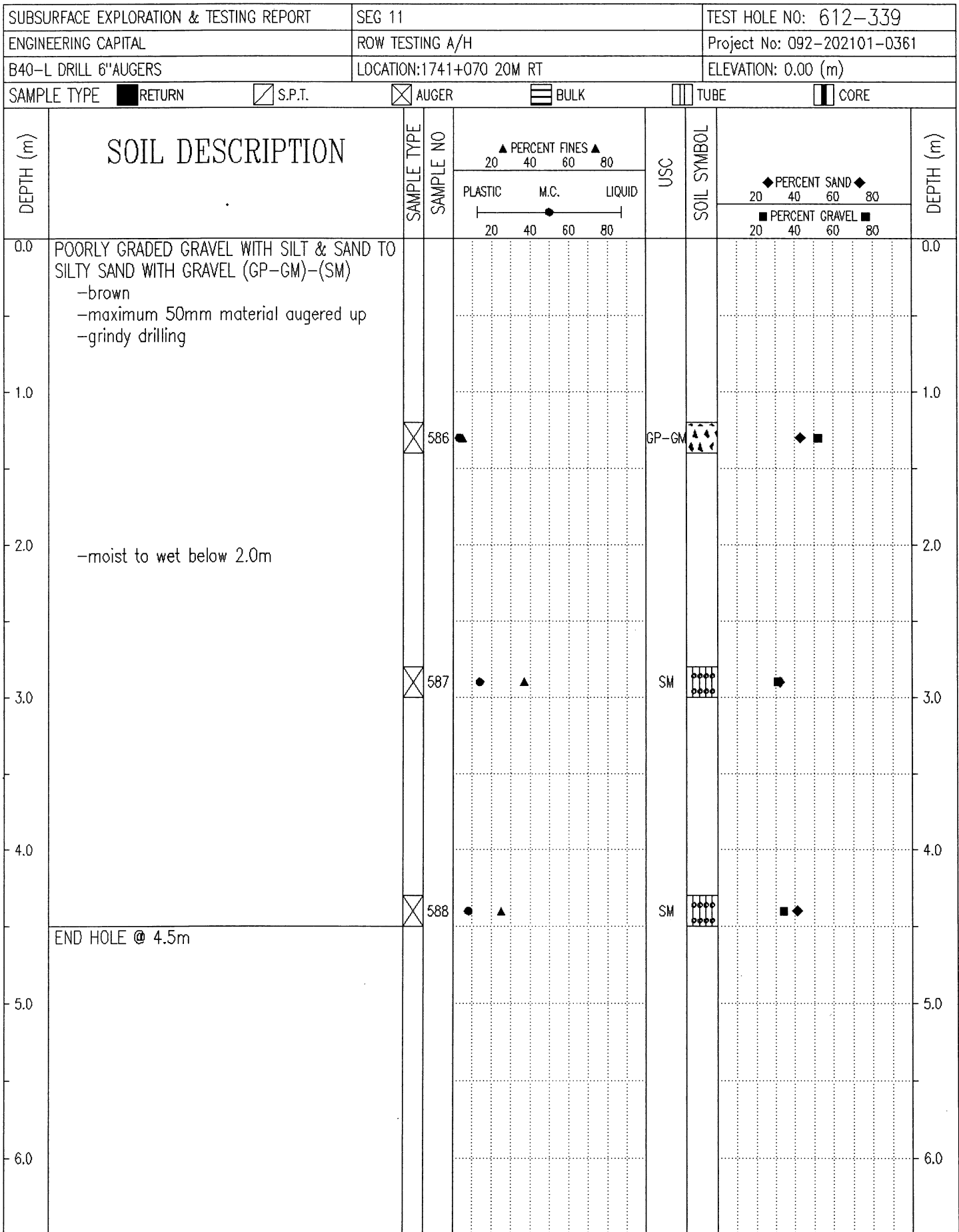
COMPLETION DEPTH: 4.5 m

REVIEWED BY:

COMPLETE: 01/07/31

Fig. No:

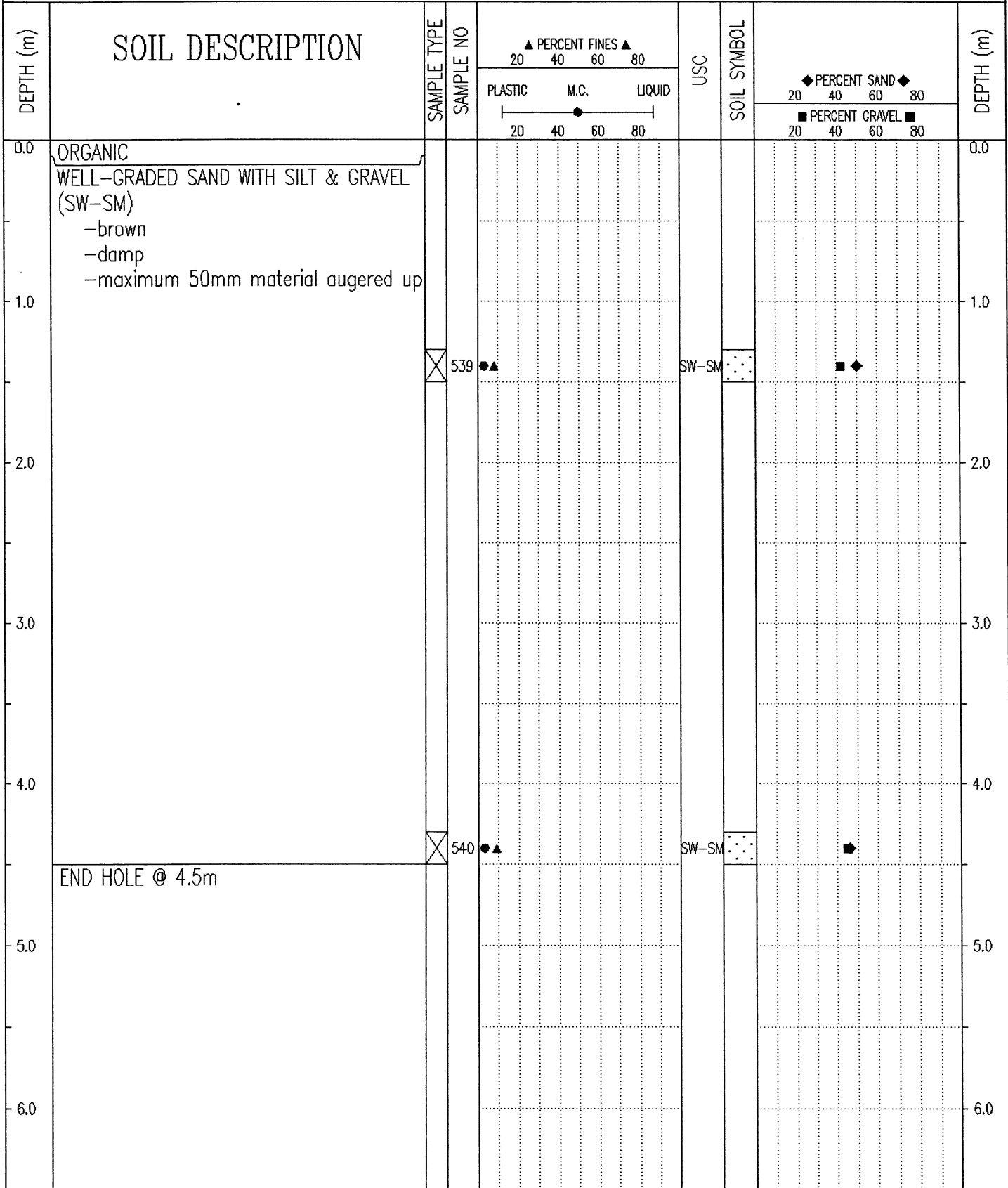
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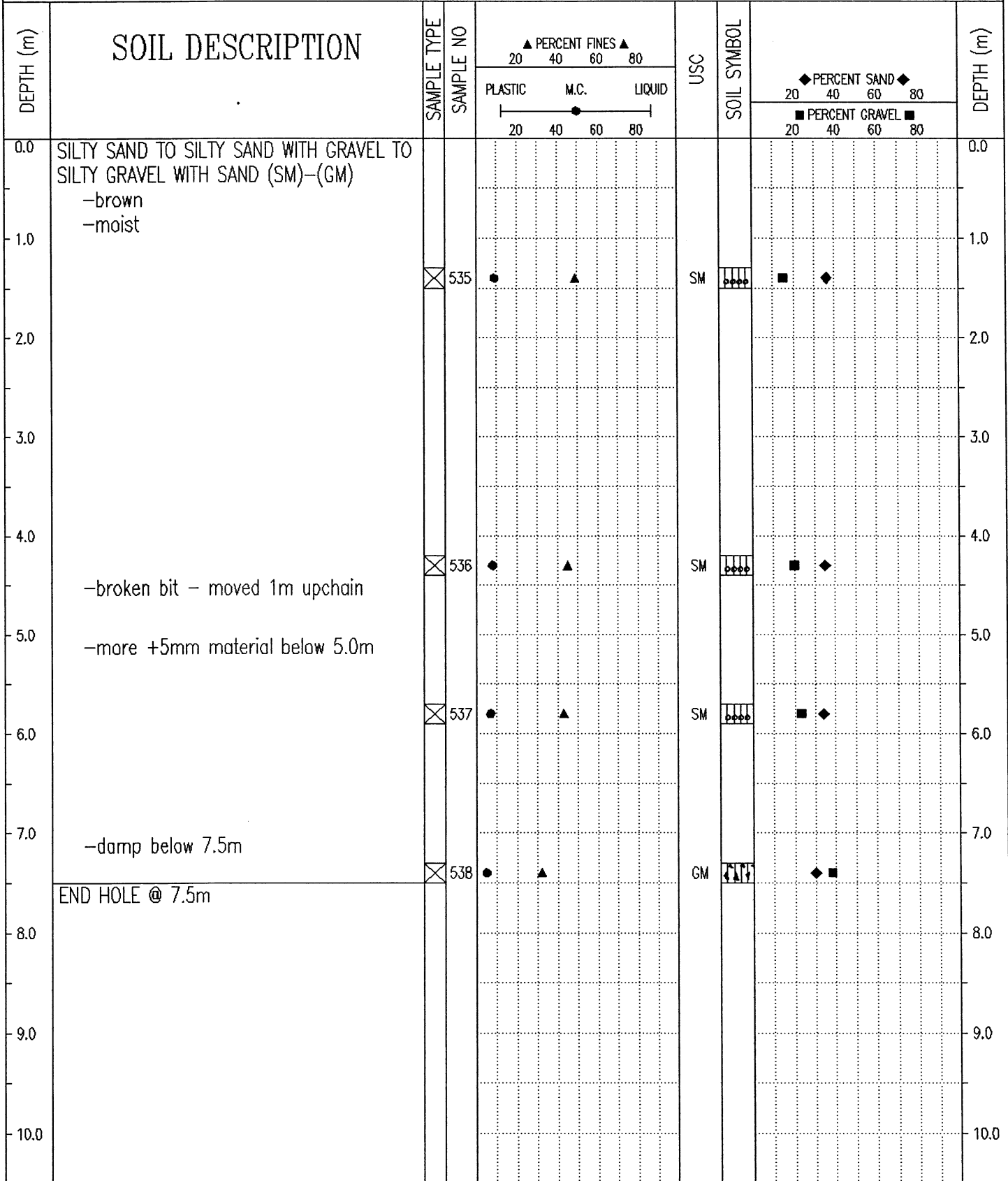
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REVIEWED BY:	COMPLETE: 01/08/02
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-316
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+078 18.5M 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



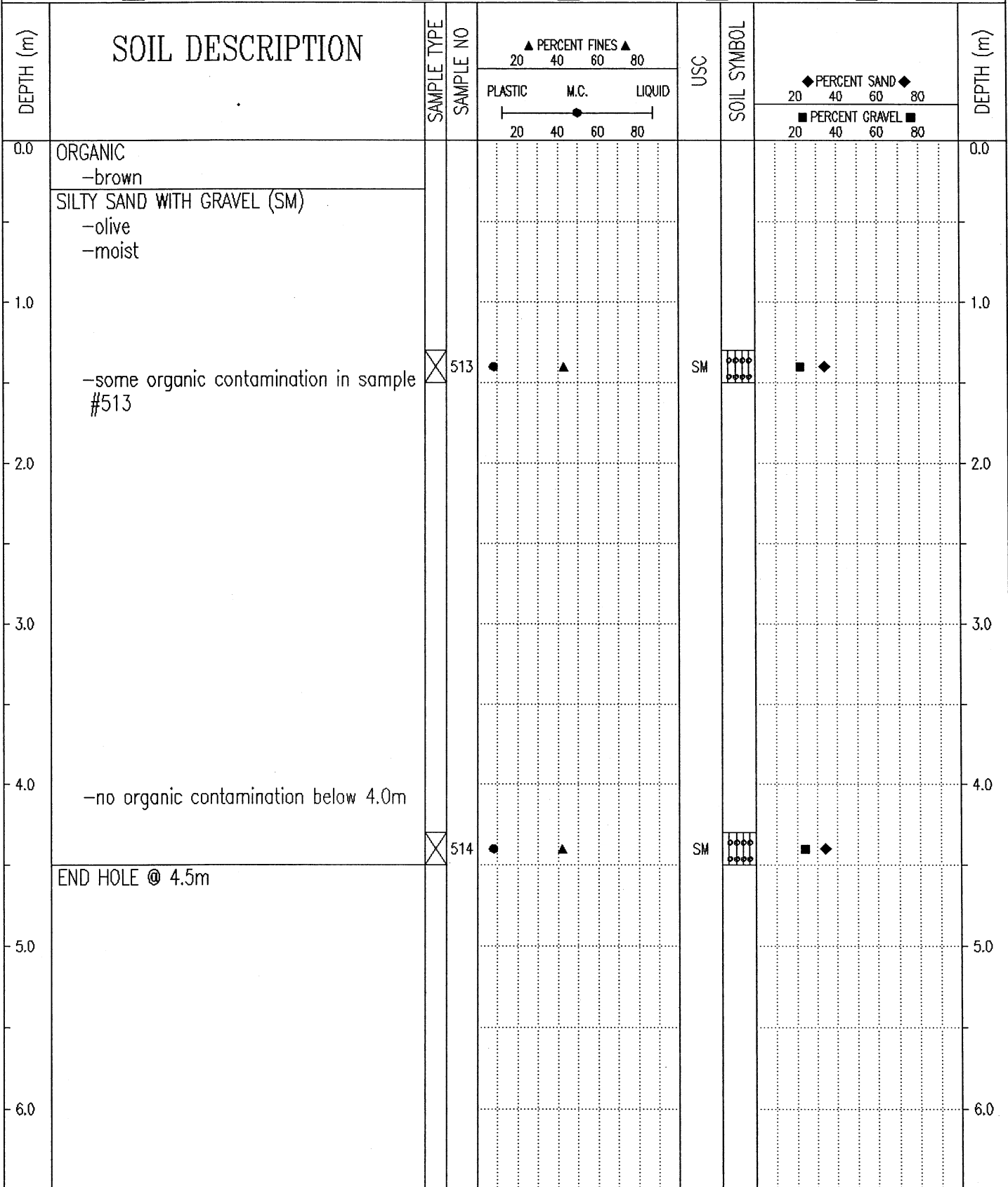
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/07/31
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-315
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+151 18.8M 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	



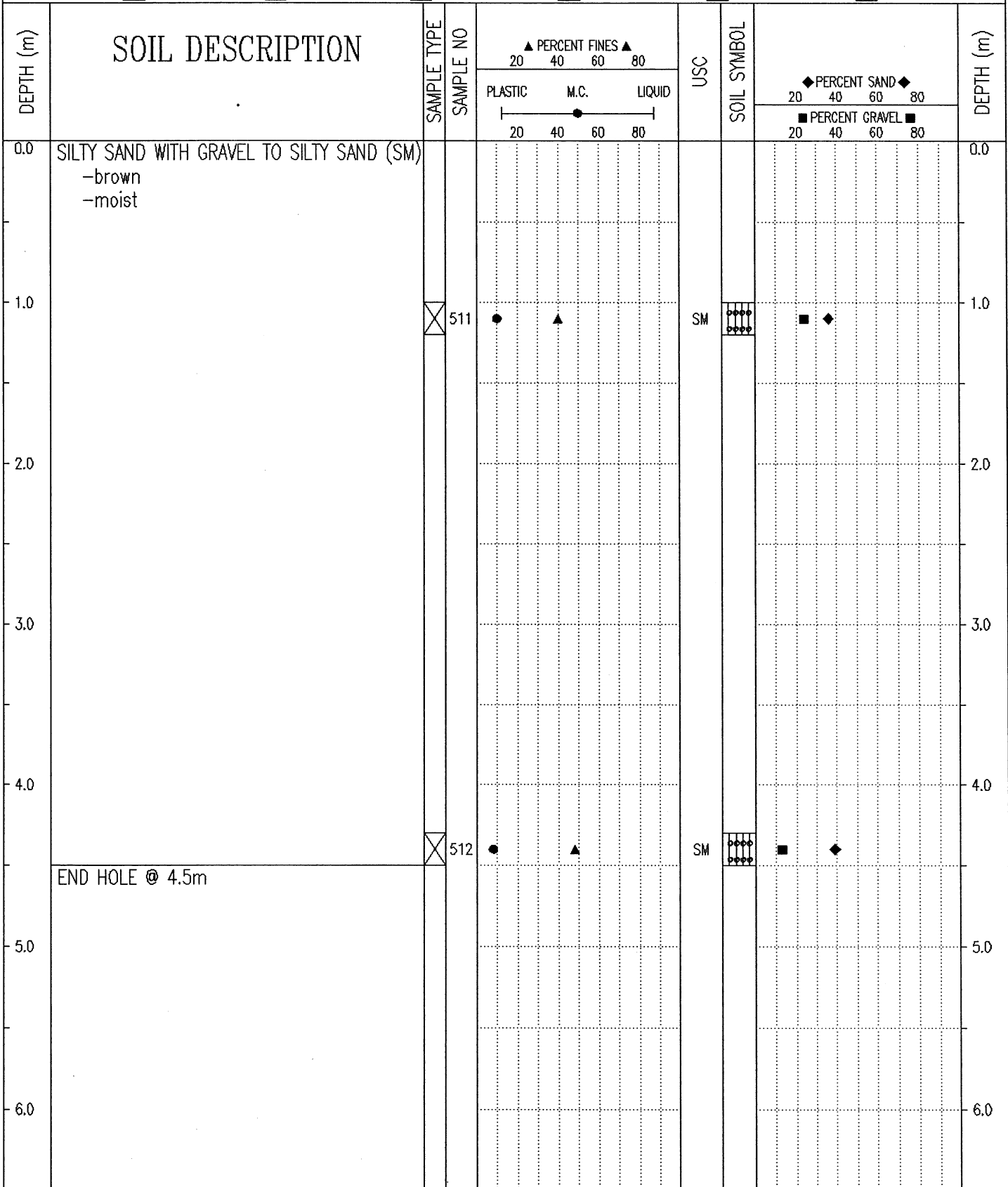
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 7.5 m
	REVIEWED BY:	COMPLETE: 01/07/31
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-304
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+276 9.1M 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



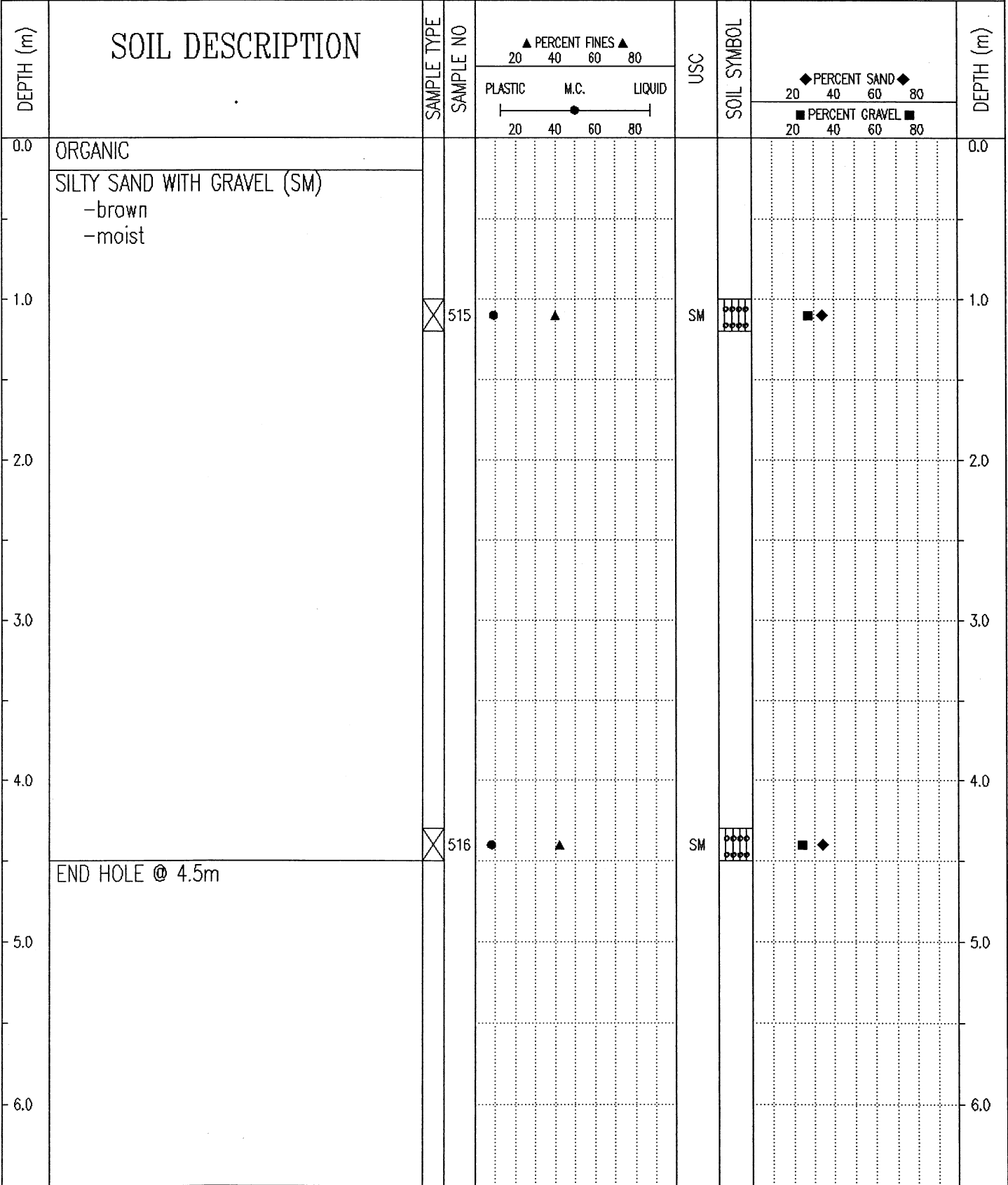
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/07/30
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-303
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+374 12M 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
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-305
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+401 3.4M 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: 01/07/30
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-302								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1741+485 0.5M 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 SAND WITH GRAVEL (SM) -brown -damp -maximum 25mm material augered up											0.0
1.0			508	●	▲		SM	●●●●	■	◆		1.0
2.0												2.0
3.0	-moist to wet below 2.5m -smoother easier drilling below 2.5m		509	●	▲		SM	●●●●	■	◆		3.0
4.0	-damp to moist below 3.8m											4.0
5.0	END HOLE @ 4.5m		510	●	▲		SM	●●●●	■	◆		5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 01/07/30						
				Fig. No:				Page 1 of 1				

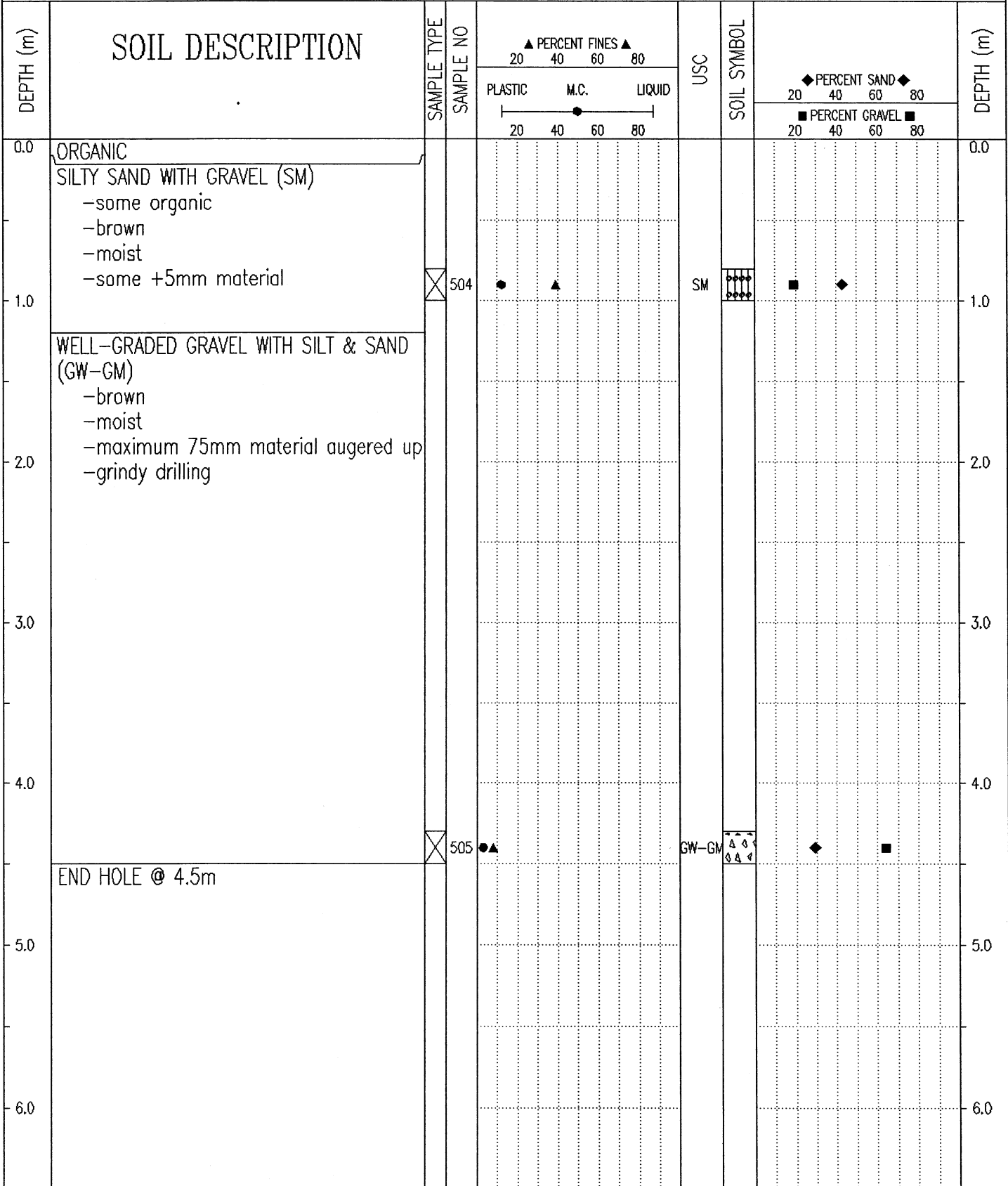
SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-301
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+579 9.6M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" 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	60	80	
0.0	SANDY SILTY GRAVEL -brown -moist -maximum 25mm material augered up -grindy drilling											0.0	
1.0	SILTY SAND WITH GRAVEL TO SILTY SAND (SM) -brown -moist to wet -smoother easier drilling	<input checked="" type="checkbox"/>	506	●	▲		SM	◆◆◆◆	◆	■	◆	1.0	
2.0												2.0	
3.0												3.0	
4.0												4.0	
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	507	●	▲		SM	◆◆◆◆	◆	■	◆	5.0	
6.0												6.0	

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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-306								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1741+607 28.5M 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			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
	SANDY SILT											
	-some +5mm material											
	-brown											
	-saturated											
	-grindy drilling below 0.7m											
1.0	SILTY SAND WITH GRAVEL (SM)		517	▲	●		SM	◆	■		1.0	
	-brown											
	-frozen											
	-maximum 25mm material augered up											
	-very noisy grindy drilling											
2.0											2.0	
3.0											3.0	
4.0			518	▲	●		SM	◆	■		4.0	
	END HOLE @ 4.5m											
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: D.T.				COMPLETION DEPTH: 4.5 m				
				REVIEWED BY:				COMPLETE: 01/07/30				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-300
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+679 5.7M 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: 01/07/30
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-307						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1741+779 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									0.0
	ORGANICS & SILT (ML) -dark brown -moist to wet									
1.0										1.0
			519				ML			
2.0										2.0
3.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -moist -grindy drilling									3.0
			520				SW-SM			
4.0										4.0
5.0	-lost sample # 521									5.0
	END HOLE @ 4.5m		521							
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: D.T. REVIEWED BY:		COMPLETION DEPTH: 4.5 m COMPLETE: 01/07/30				
				Fig. No:						Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-299								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1741+783 9.4m 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										
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 -moist -maximum 25mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	501	●	▲		SW-SM	◆	■		0.0	
3.0	SILTY SAND WITH GRAVEL (SM) -brown -saturated -smooth easing drilling -sample #502 contaminated by material from above	<input checked="" type="checkbox"/>	502	●	▲		SM	◆	■		3.0	
4.5	-moist below 4.2m -more +5mm material below 4.2m END HOLE @ 4.5m	<input checked="" type="checkbox"/>	503	●	▲		SM	◆	■		4.5	

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COMPLETION DEPTH: 4.5 m
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-298							
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361							
B40-L DRILL 6" AUGERS		LOCATION: 1741+898 14.7LT		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	
0.0	SANDY SILTY GRAVEL -trace organic -brown -moist -grindy drilling										0.0
1.0	SILTY SAND WITH GRAVEL TO SILTY SAND (SM) -grey -moist -smoother easier drilling	<input checked="" type="checkbox"/>	498	●	▲		SM	▣	◆		1.0
2.0											2.0
3.0	-moist to wet below 2.8m	<input checked="" type="checkbox"/>	499	●	▲		SM	▣	◆		3.0
4.0											4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	500	●	▲		SM	▣	◆		5.0
6.0											6.0

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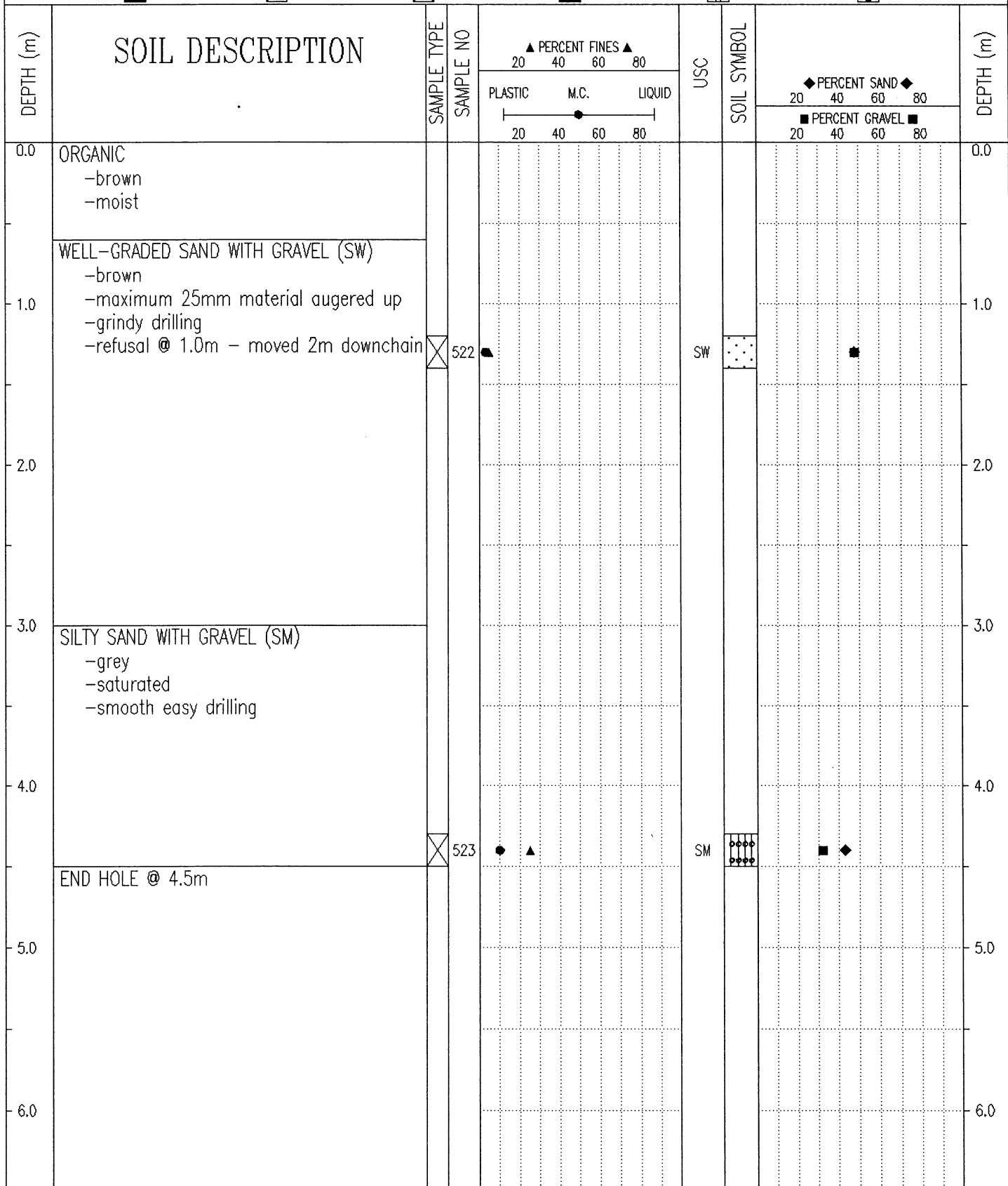
Fig. No:

COMPLETION DEPTH: 4.5 m

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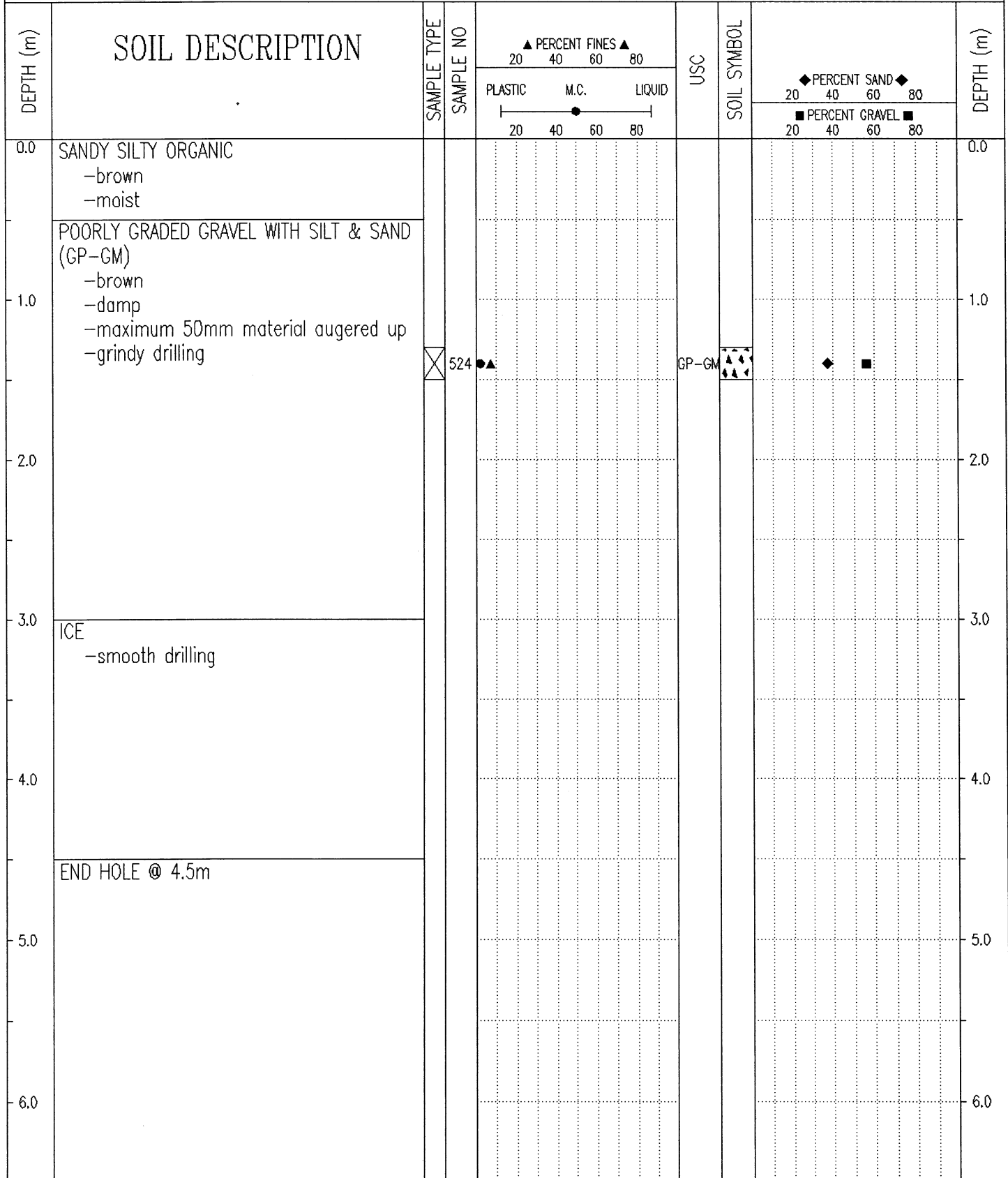
SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-308
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+920 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-309
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+975 25M 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



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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-310
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1741+997 20M 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 ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	SILTY ORGANIC -some sand -brown -wet													0.0	
1.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -damp -maximum 50mm material augered up -grindy drilling													1.0	
2.0		<input checked="" type="checkbox"/>	525	●	▲		SW-SM	◆	■					2.0	
4.0	ICE -smooth drilling													4.0	
5.0	END HOLE @ 4.5m													5.0	
6.0														6.0	

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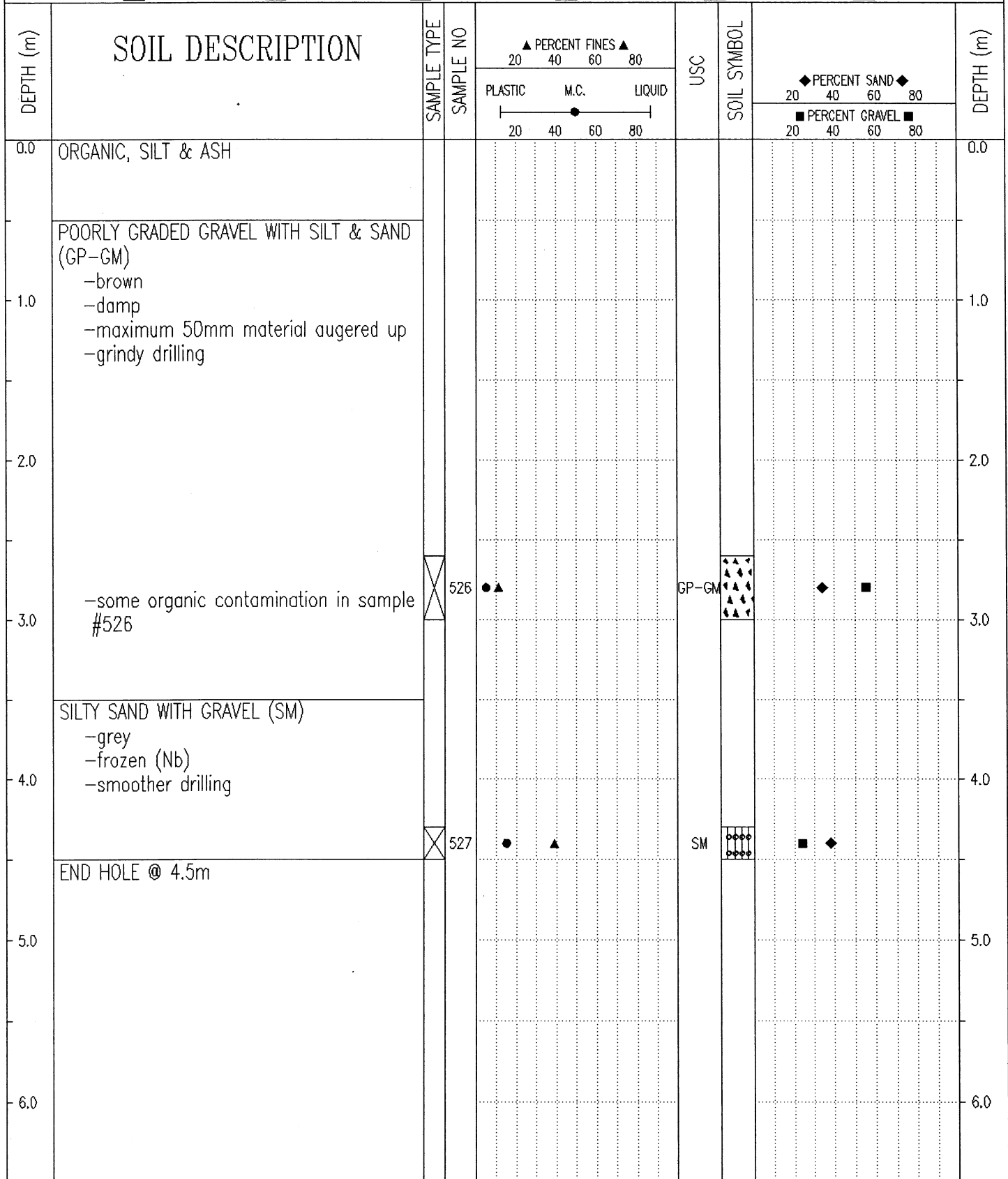
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-297						
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361						
B40-L DRILL 6" AUGERS		LOCATION: 1741+999 11.7M LT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> 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 ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.			LIQUID	20	
0.0	ORGANIC SILTY GRAVEL WITH SAND (GM) -brown -moist -maximum 75mm material augered up -grindy drilling									0.0
1.0										1.0
2.0	-some organic contamination in sample #496	<input checked="" type="checkbox"/>	496	● ▲		GM	▲ ◆ ■			2.0
3.0										3.0
4.0	SILTY SAND WITH GRAVEL (SM) -grey -moist -smoother easier drilling									4.0
5.0	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	497	● ▲		SM	■ ◆			5.0
6.0										6.0

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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-311
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+026 18M 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

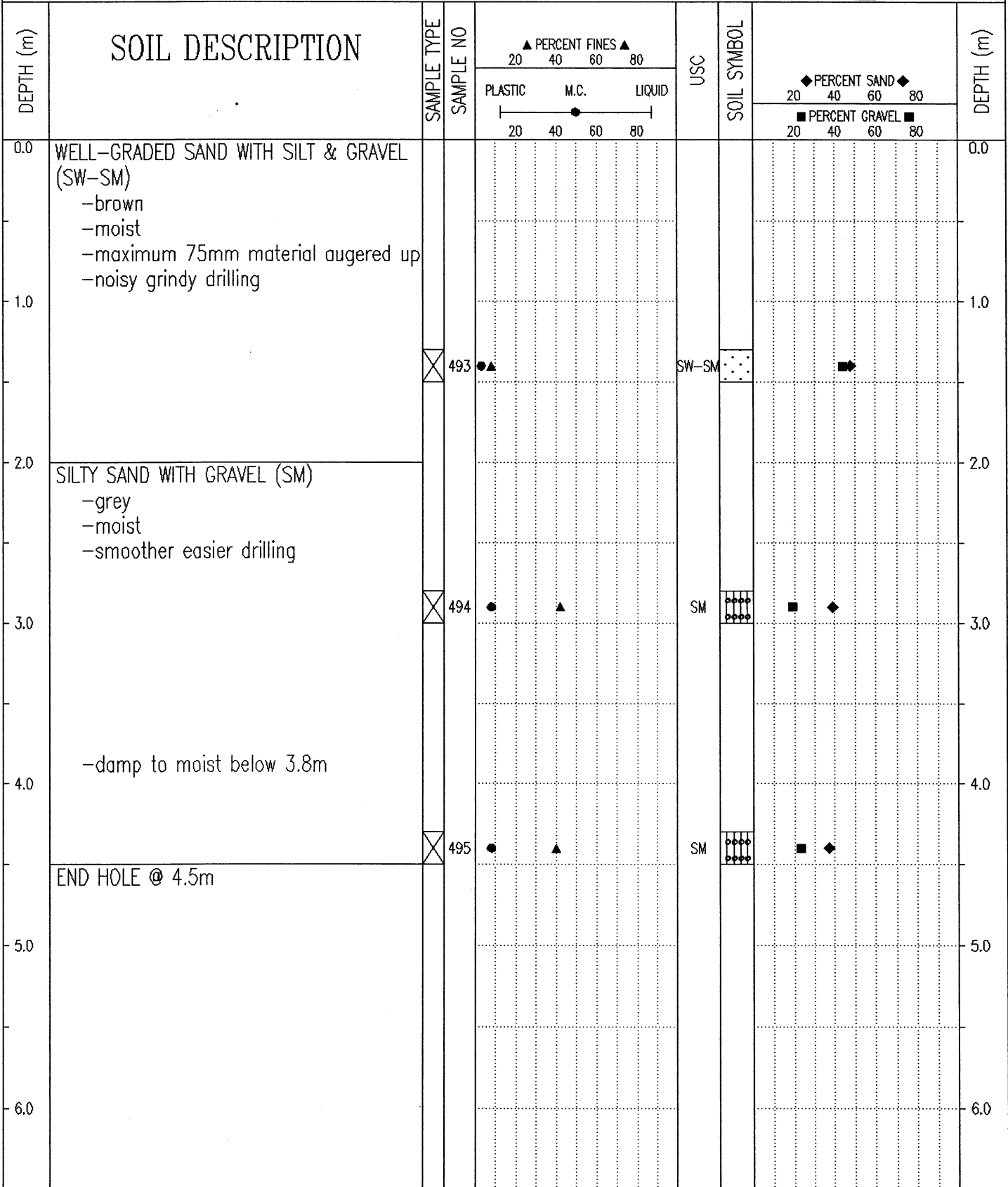


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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 01/07/31

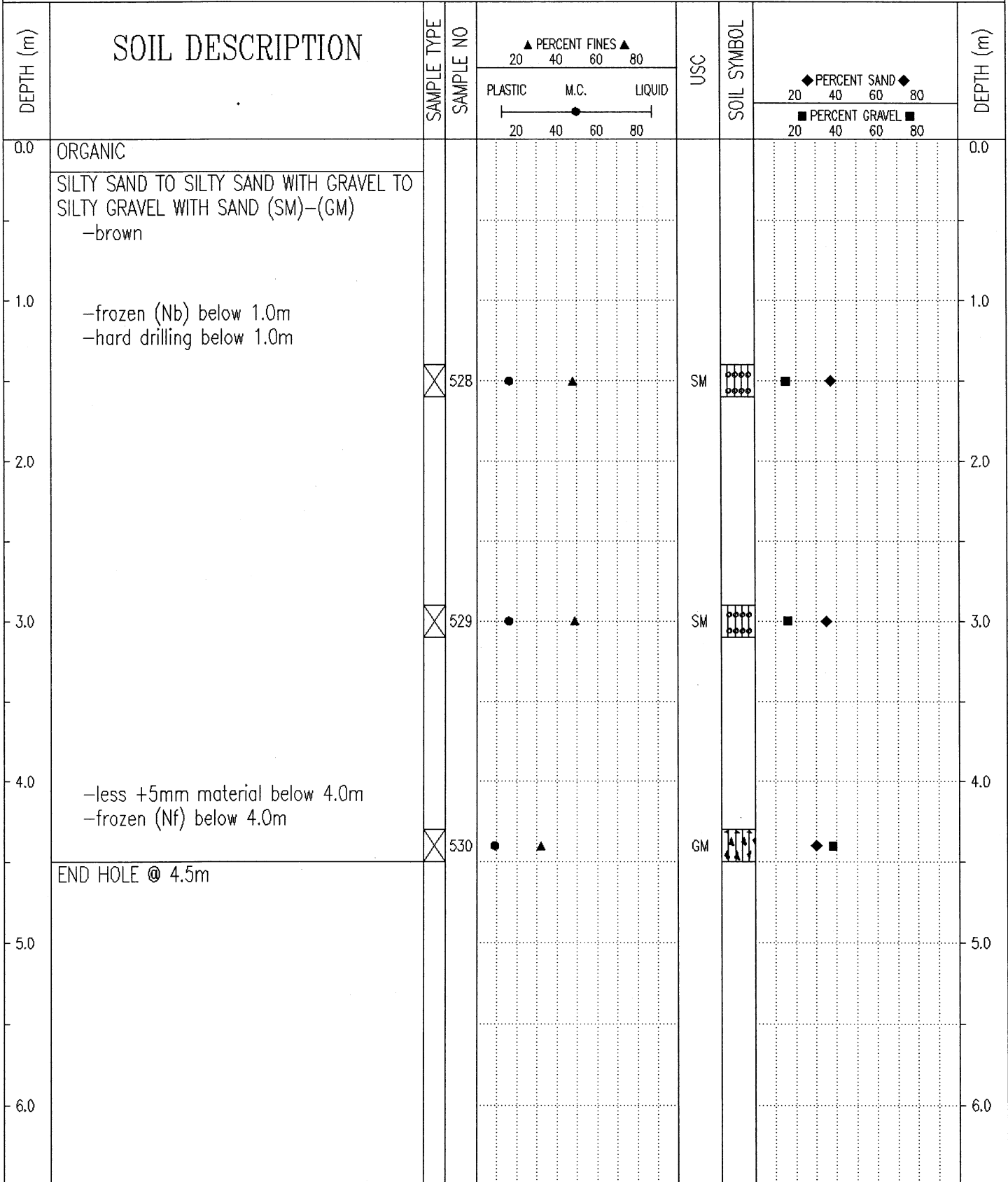
SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-296
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+101 11.1M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



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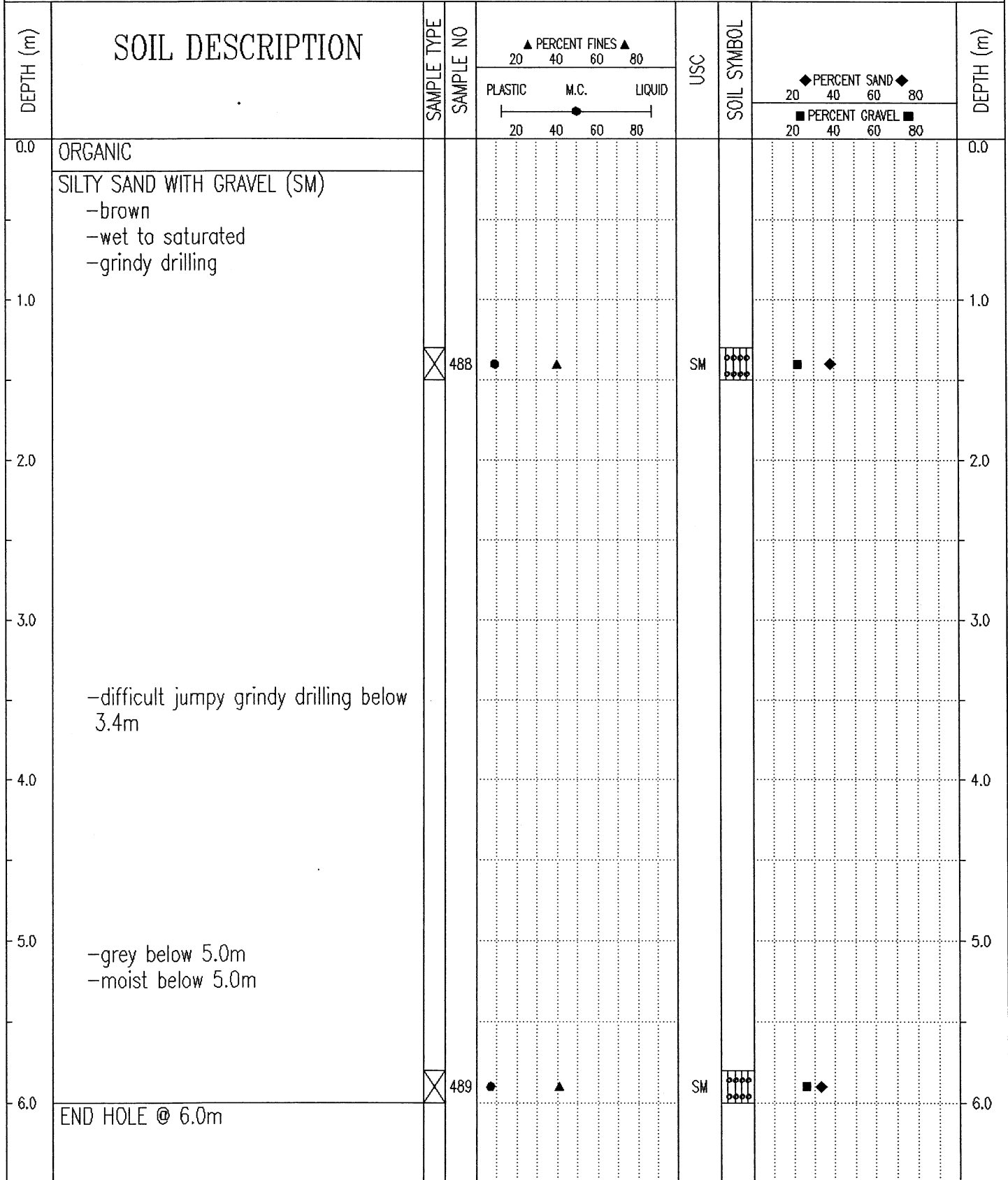
SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-295								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1742+199 6.2M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> 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 SILTY SAND WITH GRAVEL (SM) -brown -moist											0.0
1.0												1.0
2.0												2.0
3.0												3.0
4.0	-wet to saturated below 3.6m -easier drilling below 3.9m											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				
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-312
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+200 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



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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-294
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+275 23.5M 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



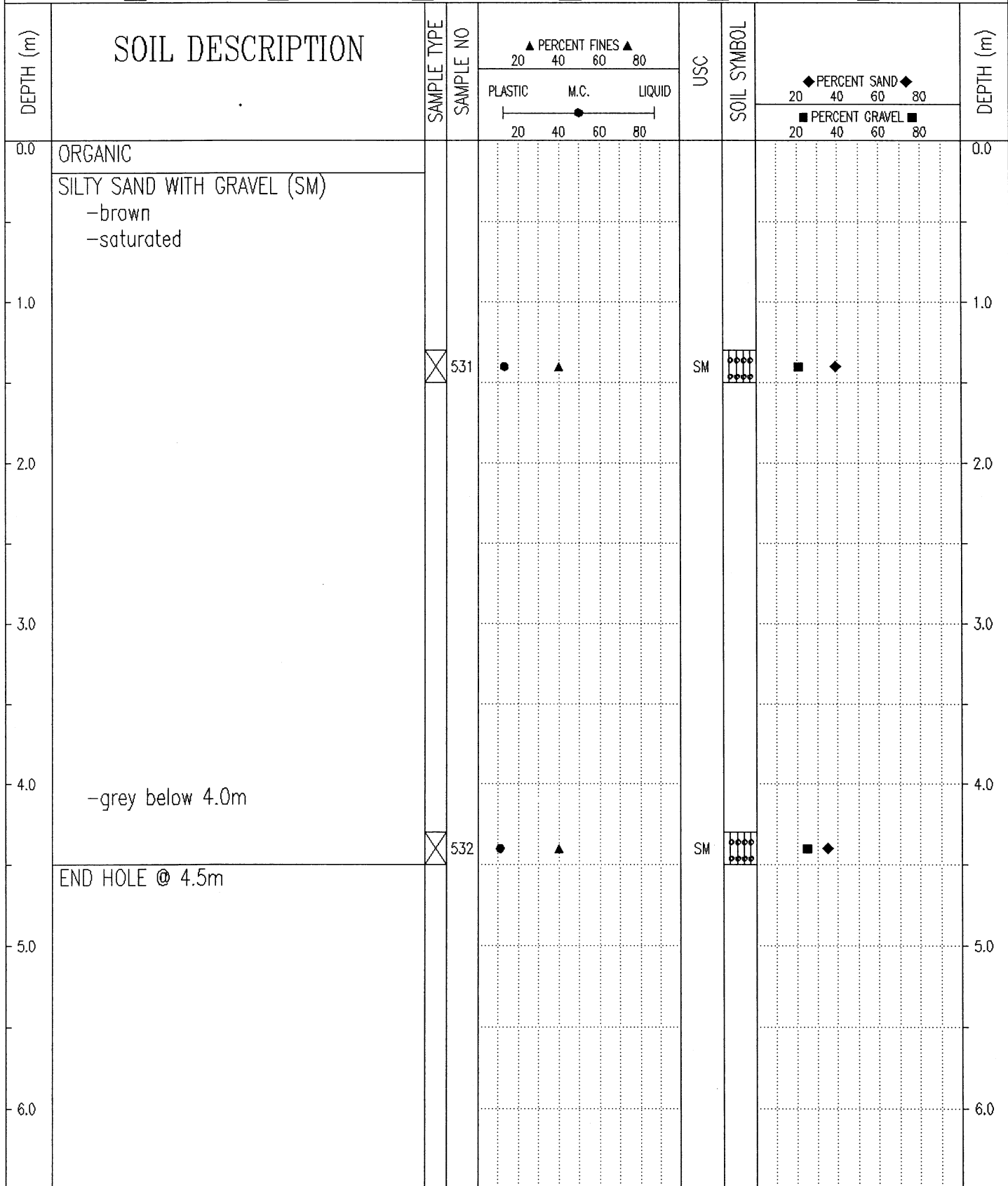
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Fig. No:

COMPLETION DEPTH: 6.0 m
COMPLETE: 01/07/27

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-293					
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361					
B40-L DRILL 6" AUGERS		LOCATION: 1742+359 17.4M 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		
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	DEPTH (m)	
				PLASTIC	M.C.				LIQUID
0.0	SILTY SAND WITH GRAVEL (SM) -brown -saturated	<input checked="" type="checkbox"/>	486	●	▲		SM	◆	0.0
1.0				2.0	3.0	4.0	5.0	6.0	
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	487	●	▲		SM	◆	4.5
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: 01/07/27			
				Fig. No:		Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-313
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+400 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



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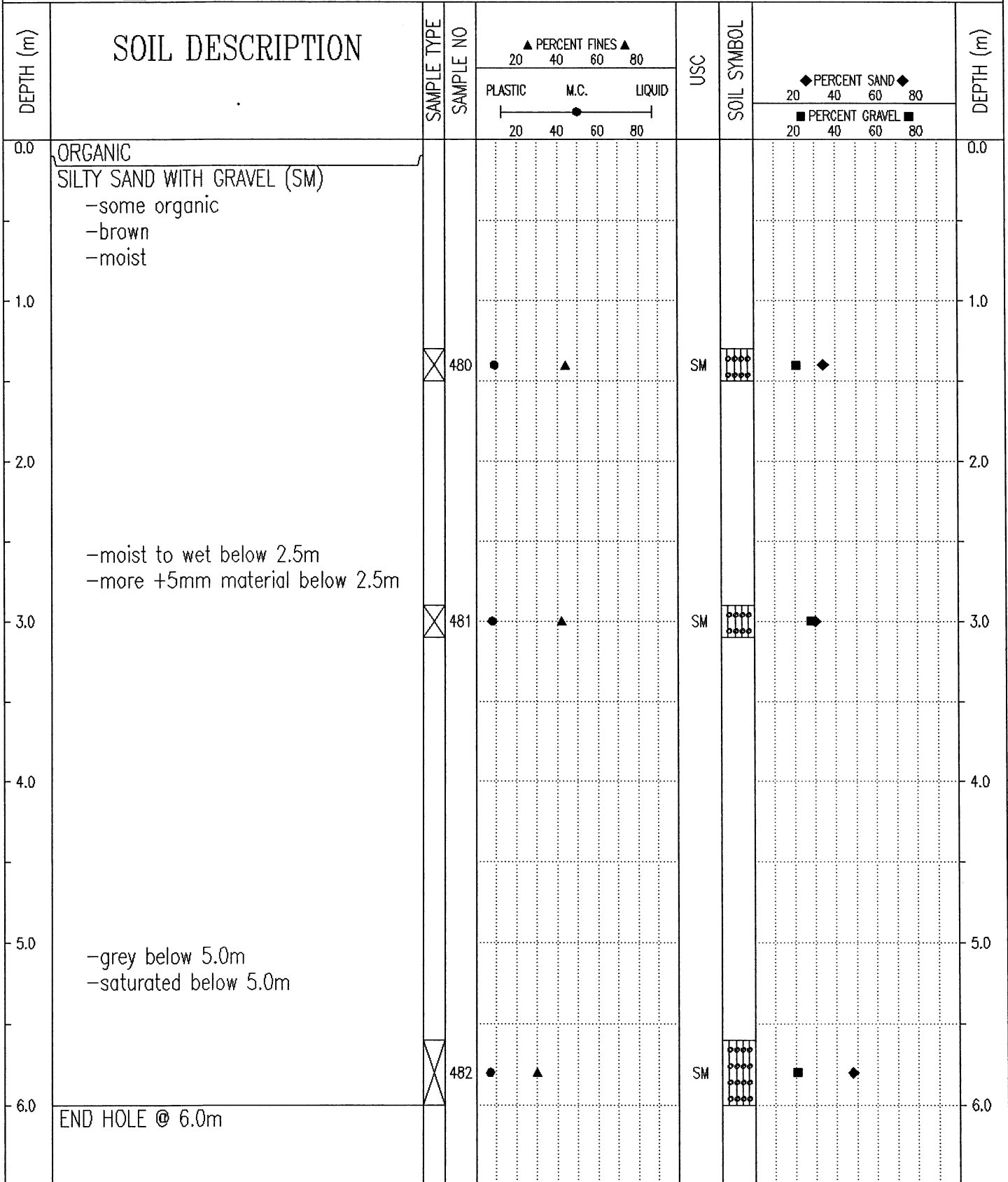
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REVIEWED BY:	COMPLETE: 01/07/31
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-292											
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361											
B40-L DRILL 6" AUGERS		LOCATION: 1742+452 20.6M 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	CRUSHED GRAVEL													0.0	
	SANDY SILT TO SILTY SAND TO SILTY SAND WITH GRAVEL (ML)-(SM)														
	-brown														
	-moist														
1.0														1.0	
2.0														2.0	
3.0														3.0	
4.0														4.0	
5.0														5.0	
	-grey- brown below 5.0m														
	-saturated below 5.0m														
6.0														6.0	
	END HOLE @ 6.0M														
	Note: Test hole in old pit.														

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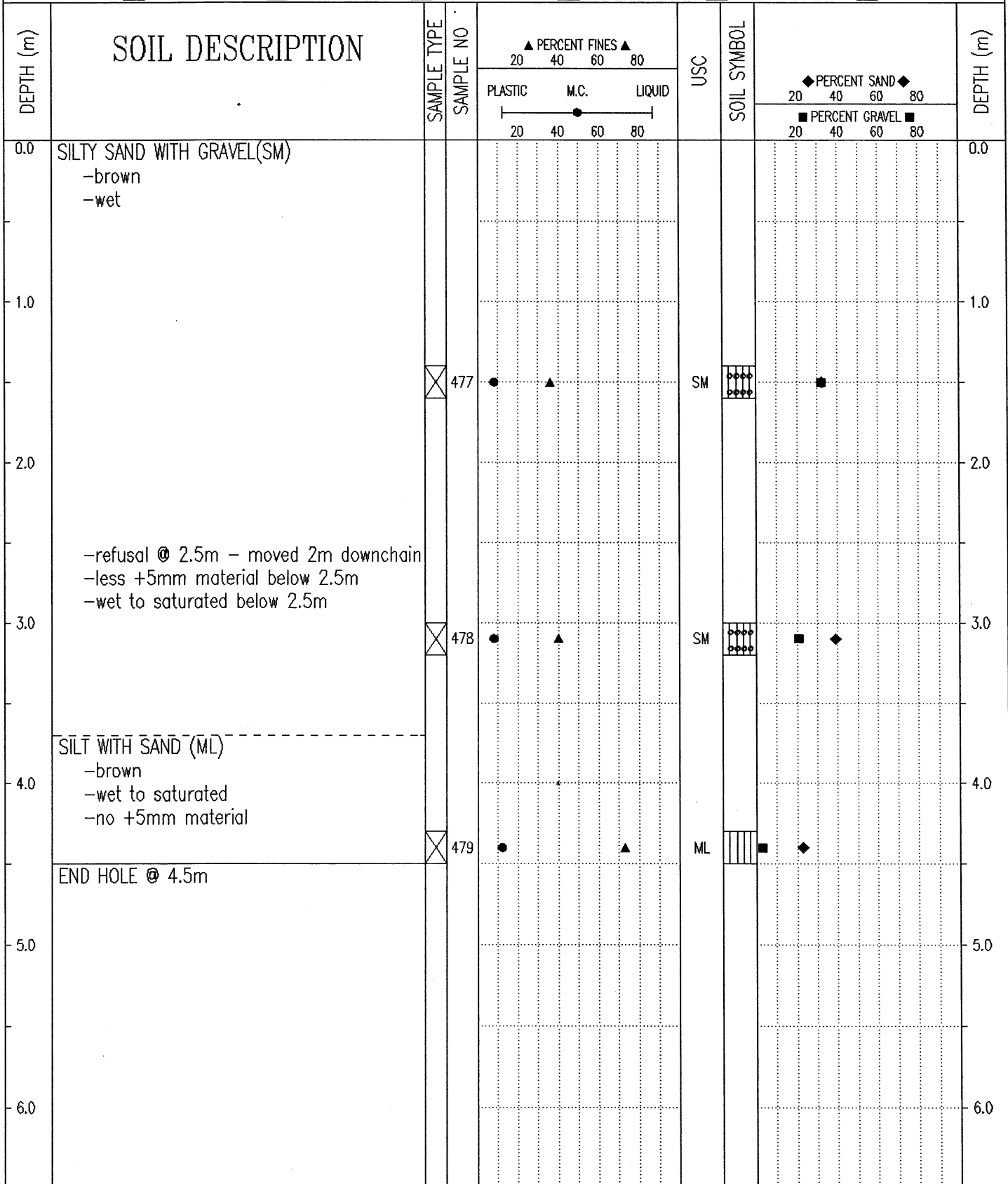
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-291
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+552 14.6M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



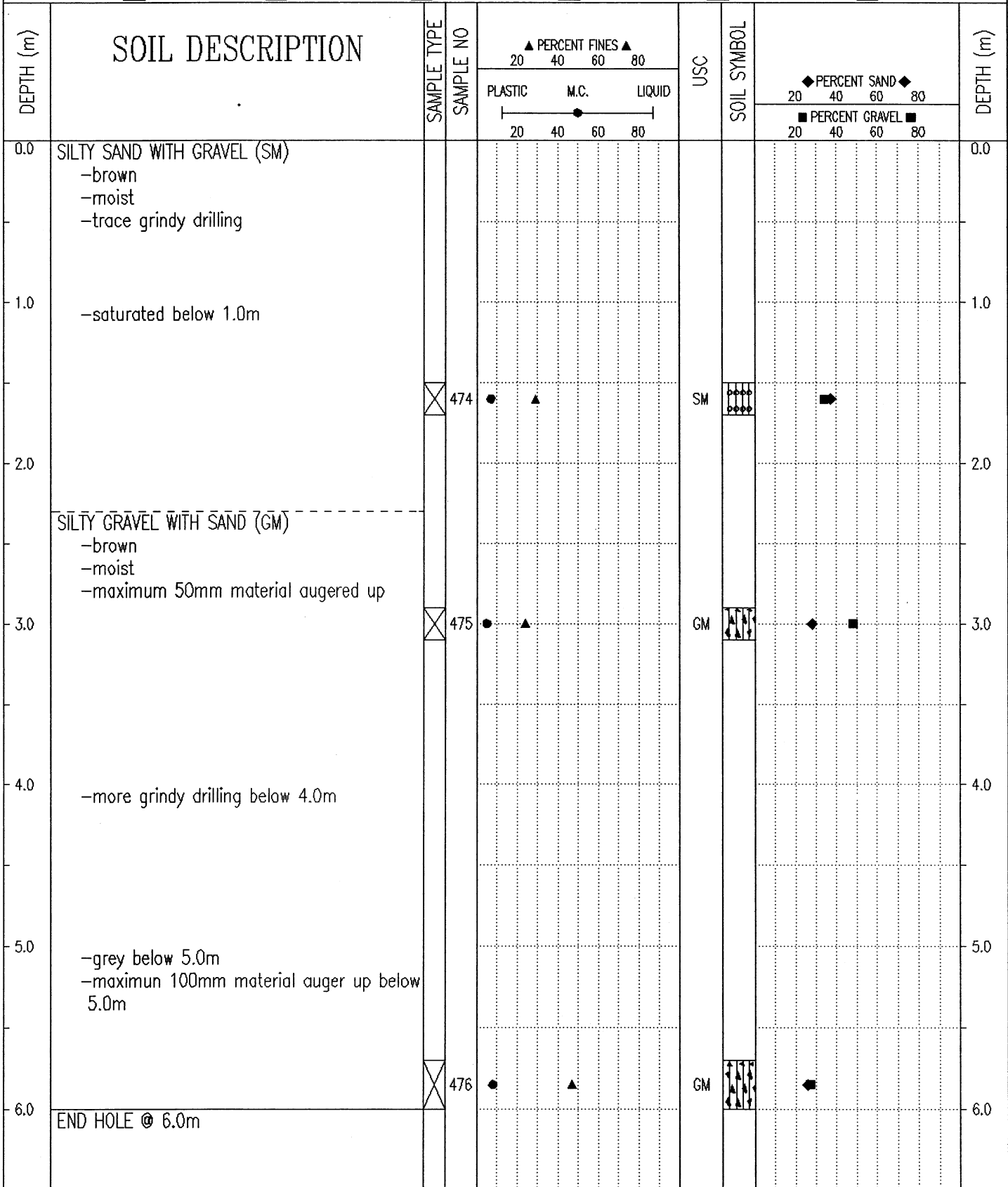
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 6.0 m
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-290
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+621 18.1M 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		



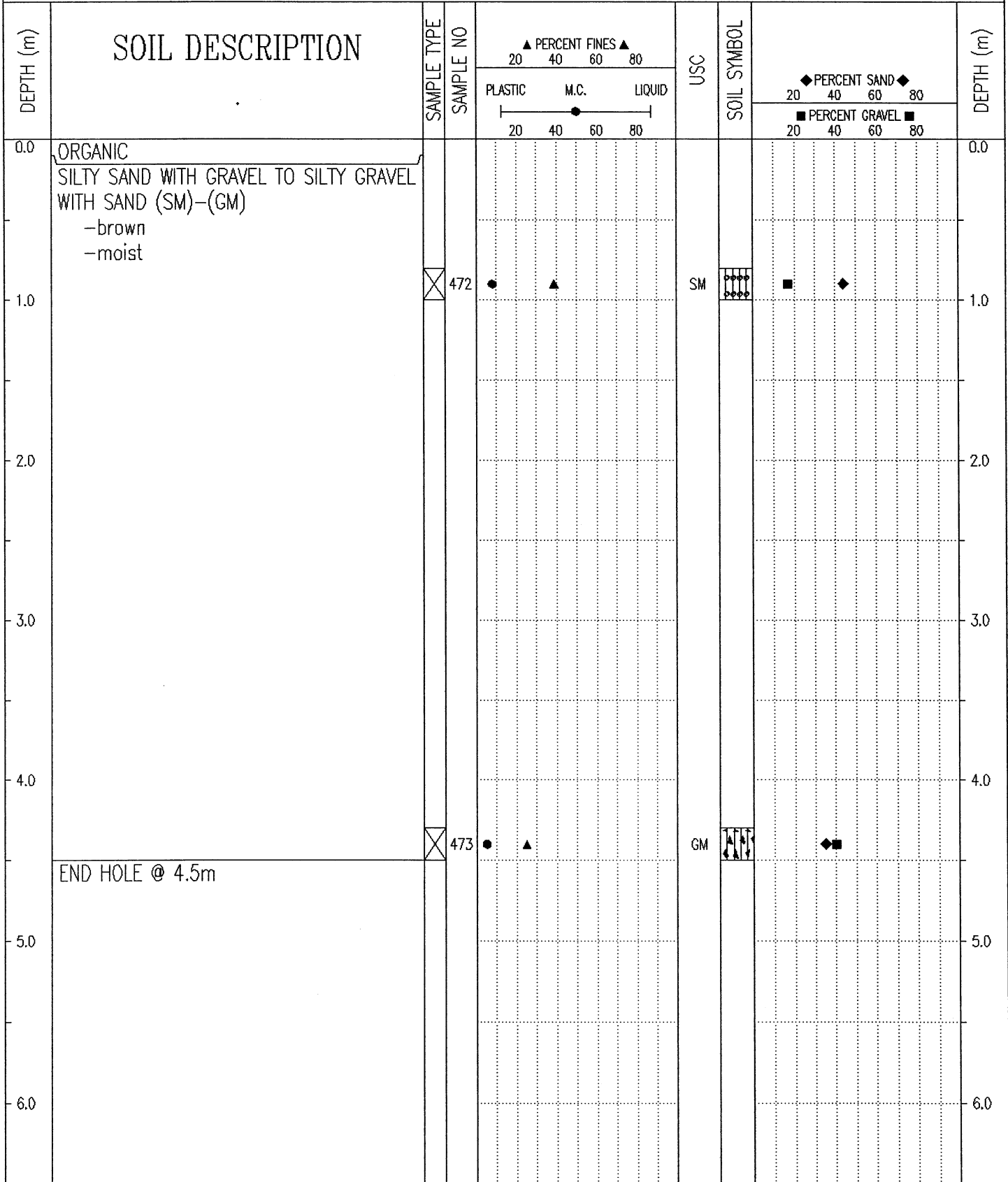
Government of Yukon Transportation Engineering	LOGGED BY: D.T.	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 01/07/27
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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-289
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+709 20.3 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		



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SUBSURFACE EXPLORATION & TESTING REPORT	SEG 11	TEST HOLE NO: 611-288
ENGINEERING CAPITAL	ROW TESTING A/H	Project No: 092-202101-0361
B40-L DRILL 6" AUGERS	LOCATION: 1742+782 6.7M 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		



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COMPLETION DEPTH: 4.5 m
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SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-314								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-0361								
B40-L DRILL 6" AUGERS		LOCATION: 1742+832 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								
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	SILTY SAND WITH GRAVEL (SM) -brown -moist to wet -grindy drilling below .3m											0.0
1.0												1.0
2.0												2.0
3.0	-saturated below 2.6m											3.0
4.0	-water level @ 3.7m -no sample recovered material washed off auger											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: 01/07/31				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SEG 11		TEST HOLE NO: 611-287								
ENGINEERING CAPITAL		ROW TESTING A/H		Project No: 092-202101-D361								
B40-L DRILL 6" AUGERS		LOCATION: 1742+837 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	60	
0.0	ROAD GRAVEL											0.0
0.0 - 1.0	SILTY ORGANIC (ML) -trace sand -black / brown -saturated											
1.0 - 2.0	SILTY SAND WITH GRAVEL (SM) -brown -wet -grindy drilling											
2.0 - 3.0		<input checked="" type="checkbox"/>	469	●	▲		ML	▨	◆			
3.0 - 4.0		<input checked="" type="checkbox"/>	470	●	▲		SM	▨	◆	■		
4.0 - 4.5	-saturated below 3.5m											
4.5	END HOLE @ 4.5m	<input checked="" type="checkbox"/>	471	●	▲		SM	▨	◆	■		

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1292					
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361					
B-40L		LOCATION: 1742+920 12.5M 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	PERCENT GRAVEL	DEPTH (m)
0.0	CRUSHED WELL-GRADED SAND WITH SILT & GRAVEL - ROAD AGGREGATE (SW-SM) -grey -moist		1	▲ 20 40 60 80		SW-SM	◆ 20 40 60 80	■ 20 40 60 80	0.0
1.0	SILTY SAND WITH GRAVEL (SM) -dry -easy drilling		2	● PLASTIC M.C. LIQUID		SM			1.0
2.0	-0.1m silt seam @ 1.8m		3			SM			2.0
3.0			4			SM			3.0
4.0	-grey below 4.0m -damp below 4.0m -more rocks @ 4.0m		5			SM			4.0
5.0	END HOLE @ 4.7m Note: Test hole is 10m upchain of Destruction Bay Maint. entrance -Area was previously stripped - no organic on surface.								5.0
6.0									6.0

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COMPLETION DEPTH: 4.7 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1293								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1742+999 21.8M 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	SILTY CRUSH											0.0
1.0	SILTY SAND WITH GRAVEL (SM) -damp - frozen -more rocks											1.0
2.0	-grey below 1.7m -easier drilling below 1.7m											2.0
3.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY SAND WITH GRAVEL (GP-GM)-(SM) -damp -grey											3.0
4.0												4.0
5.0	END HOLE @ 4.7m Note: Wood culvert 10m upchain from hole Test hole 15m lt of centreline due to power line.											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.7 m				
				REVIEWED BY:				COMPLETE: 00/04/26				
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 542-1329								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1743+011 13.5m 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 SILTY SAND WITH GRAVEL TO SILT WITH SAND (SM)-(ML) -grey -damp			20	40	60	80	20	40	60	80	0.0
1.0		X	145	●	▲			◆				1.0
2.0		X	146	●	▲			◆	■			2.0
3.0	SILTY GRAVEL WITH SAND (GM) -grey -damp to moist	X	147	●	▲			◆	■			3.0
4.0												4.0
5.0	END HOLE @ 4.7m Note: CPS Multiplate - Outlet 3m upchain of existing channel Buried Telephone line 8m rt of centreline	X	148	●	▲			◆	■			5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.7 m						
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				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1294							
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361							
B-40L		LOCATION: 1743+117 19.8M 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			20	40	
0.0	SANDY SILT (ML) -organic -frozen -brown	⊗	10	20	40	60	ML	▨	◆	0.0	
1.0	SILTY SAND TO POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY GRAVEL WITH SAND (SM)-(GP-GM)-(GM) -grey -damp -angular -easy drilling -more rocks @ 1.5m	⊗	11	20	40	60	SM	▨	◆	1.0	
2.0										2.0	
3.0	-changed bitt @ 3.0m	⊗	12	20	40	60	GP-GM	▨	◆	3.0	
4.0										4.0	
5.0	END HOLE @ 4.7m Note: Test hole located downchain access to Talbot Arms Hotel.	⊗	13	20	40	60	GM	▨	◆	5.0	
6.0										6.0	

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1295				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1743+205M 13M 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	DEPTH (m)
				PLASTIC	M.C.			
0.0	SILTY SAND WITH GRAVEL (SM) -brown to grey -with organics -frozen			20	40	60	80	0.0
1.0		<input checked="" type="checkbox"/>	14	20	40	60	80	1.0
2.0	SANDY SILT (ML) -with organics -brown to grey -frozen -stiff drilling (tight)	<input checked="" type="checkbox"/>	15	20	40	60	80	2.0
3.0	SILTY SAND WITH GRAVEL (SM) -grey - brown -damp -easier drilling below 2.0m -more gravel below 2.0m	<input checked="" type="checkbox"/>	16	20	40	60	80	3.0
4.0	SILT WITH SAND (ML) -olive brown -frozen (Vx) -smooth easy drilling			20	40	60	80	4.0
5.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	17	20	40	60	80	5.0
6.0				20	40	60	80	6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 542-1330						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-D361						
B-40L		LOCATION: 1743+249 16.0M 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	SILTY SAND WITH GRAVEL (SM) -no organics - previously stripped -grey -damp	<input checked="" type="checkbox"/>		20	40	60	80			0.0
1.0		<input checked="" type="checkbox"/>	149	●	▲			■	◆	1.0
2.0	WELL-GRADED SAND WITH SILTY & GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (SW-SM)-(GP-GM) -grey -damp -more rocks	<input checked="" type="checkbox"/>	150	●	▲			■	◆	2.0
3.0		<input checked="" type="checkbox"/>	151	●	▲			■	◆	3.0
4.0	SILTY SAND WITH GRAVEL (SM) -with organics -grey - brown -moist -smoother drilling	<input checked="" type="checkbox"/>								
5.0		<input checked="" type="checkbox"/>	152	●				■	◆	5.0
6.0	END HOLE @ 4.7m CPS Outlet - 5m downchain Note: 3/4 plastic waterline 1.0m right of Testhole 1330 (surface)									6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1296						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-D361						
B-40L		LOCATION: 1743+271 11.9M 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	SILTY SAND WITH GRAVEL (SM) -frozen (seasonal frost) -more rock below 0.5m									0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY SAND WITH GRAVEL (GP-GM)-(SM) -dry to damp									1.0
2.0										2.0
3.0	-moist below 3.0m									3.0
4.0										4.0
5.0	END HOLE @ 4.7m									5.0
6.0										6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1297							
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361							
B-40L		LOCATION: 1743+373 14M 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	SILTY SAND WITH GRAVEL (SM) -brown -damp										0.0
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -more rocks @ 1.5m	<input checked="" type="checkbox"/>	22	●	▲		SM	▨	◆	■	1.0
3.0	SILTY GRAVEL WITH SAND (GM) -brown -damp -NOTE: fuel oil contamination -smooth drilling	<input checked="" type="checkbox"/>	23	●	▲		GP-GM	▨	◆	■	3.0
4.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	24	●	▲		GM	▨	◆	■	4.0
5.0											5.0
6.0											6.0

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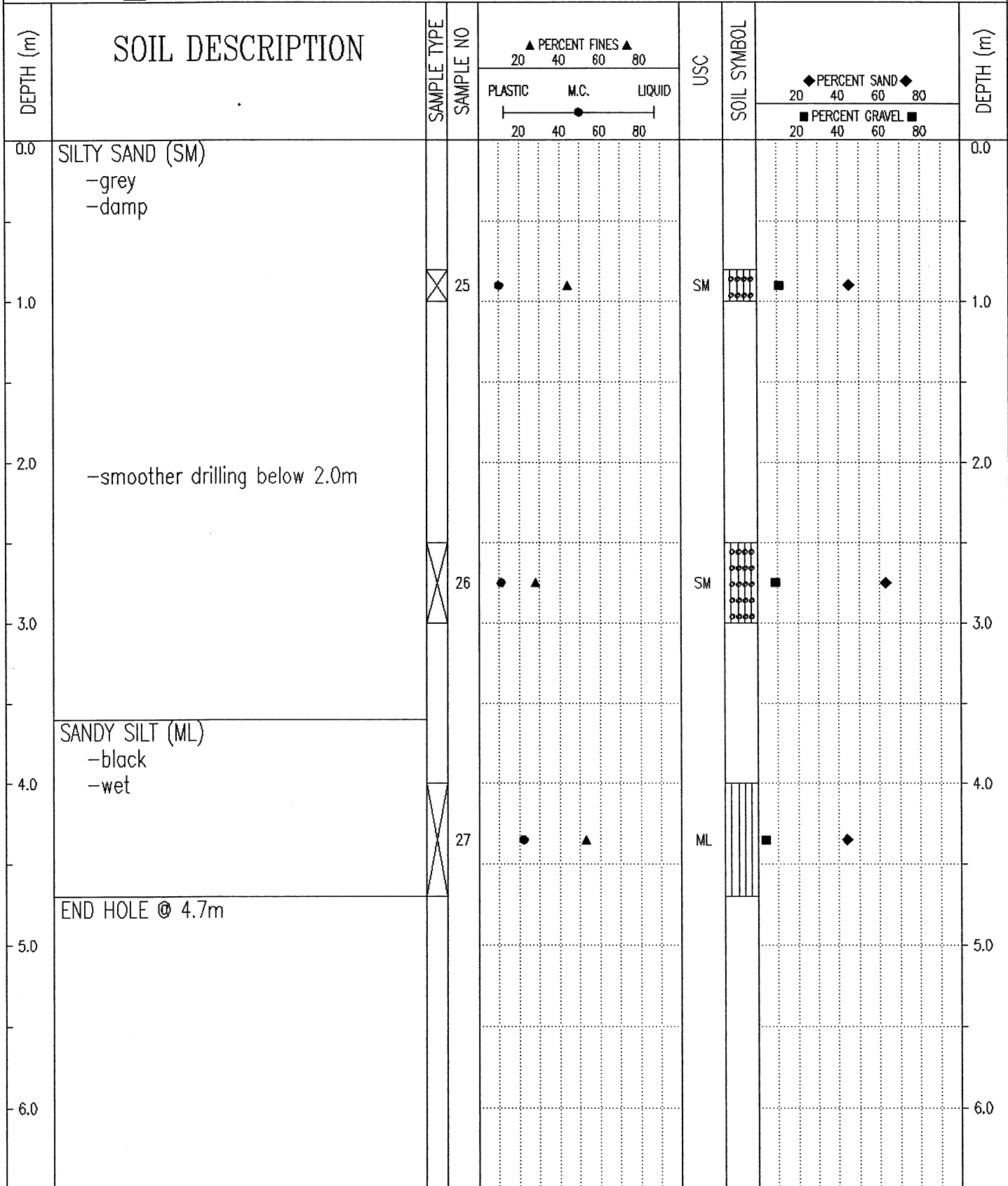
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 541-1298
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1743+495M 9M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1299									
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361									
B-40L		LOCATION: 1743+555 11.5M 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			PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60		
0.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -with organic												0.0
1.0	ASH -easier drilling @ 1.2m		28				SM						1.0
2.0	ORGANIC SILTY SAND TO SANDY SILT (SM)-(ML) -with organic -grey below 2.0m -more rocks below 2.0m -wet below 2.0m		29				SM						2.0
3.0	-saturated 0.2m thick @ 3.0m		30				ML						3.0
4.0	SANDY SILT (ML) -wet		31				ML						4.0
5.0	END HOLE @ 4.7m												5.0
6.0													6.0

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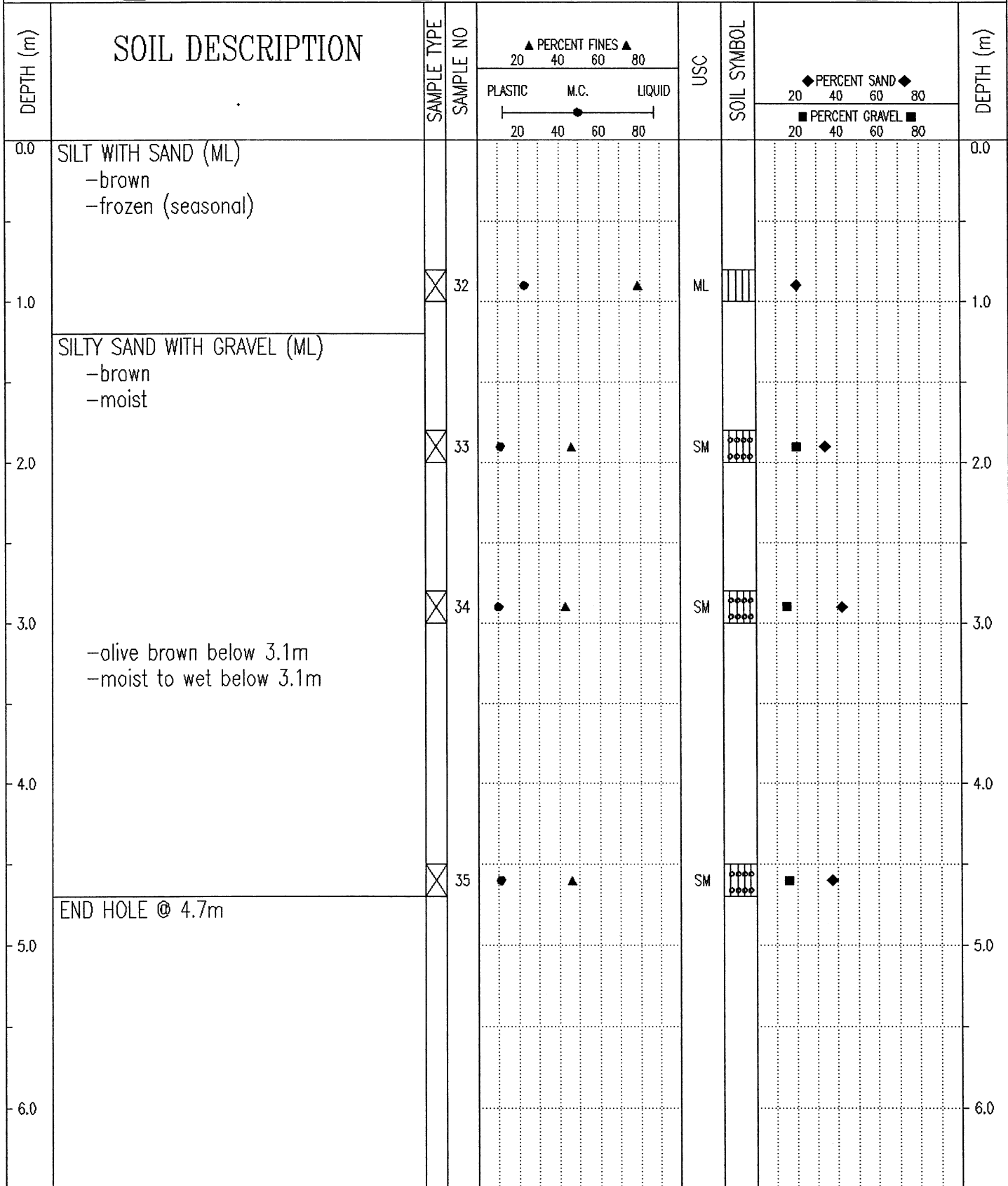
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ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1743+557 14.3M RT		ELEVATION: 0.00 (m)				
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" 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	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC, SILT, & SAND SEAMS -frozen below 0.5m (seasonal)							0.0
1.0	SILT WITH SAND (ML) -brown -wet to saturated -easy drilling below 1.0m -standing water @ 1.0m after drilling							1.0
2.0	SANDY SILT (ML) -saturated - water @ 2.0m		153	●	▲	ML	■ ◆	2.0
3.0			154	●	▲	ML	■ ◆	3.0
4.0	SILTY SAND WITH GRAVEL (SM) -orange (rust) -saturated -grindy drilling		155	● ▲		SM	■ ◆	4.0
5.0	END HOLE @ 4.7m		155	● ▲		SM	■ ◆	5.0
6.0								6.0

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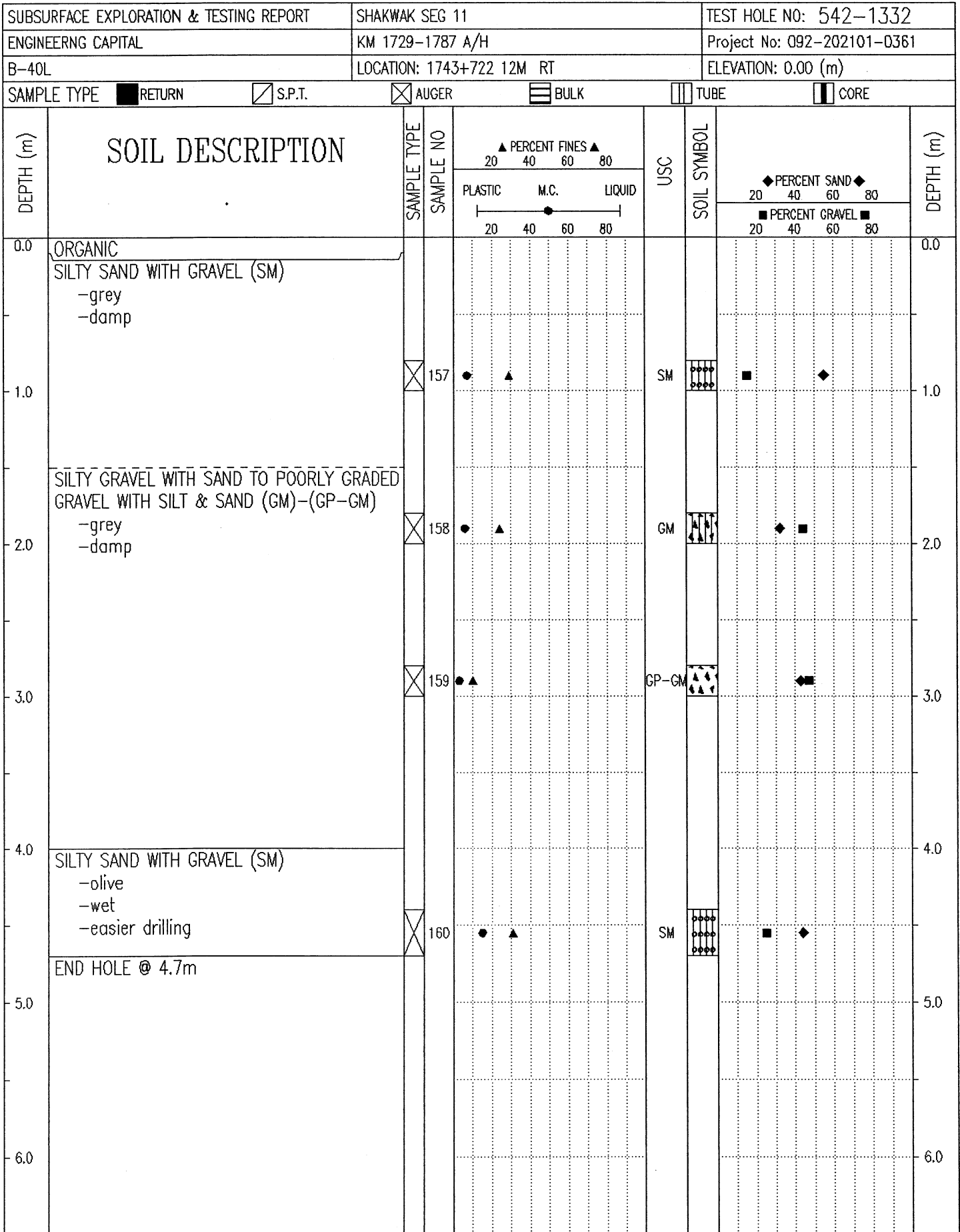
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 541-1300
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1743+666 7.9M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1301				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1743+770 10.4M 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	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.			
0.0	GRAVEL FILL (Rest stop)							0.0
1.0	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -grey -damp -grindy drilling @ 1.0m	<input checked="" type="checkbox"/>	36	●	▲	SM	◆	1.0
2.0	-brown below 1.5m -moist to frozen below 1.5m	<input checked="" type="checkbox"/>	37	●	▲	ML	◆	2.0
3.0	SILTY SAND (SM) -grey -frozen	<input checked="" type="checkbox"/>	38	●	▲	SM	◆	3.0
4.0	SILTY SAND WITH GRAVEL (SM) -olive brown -frozen (Vx)	<input checked="" type="checkbox"/>	39	●	▲	SM	◆	4.0
5.0	END HOLE @ 4.7m							5.0
6.0								6.0

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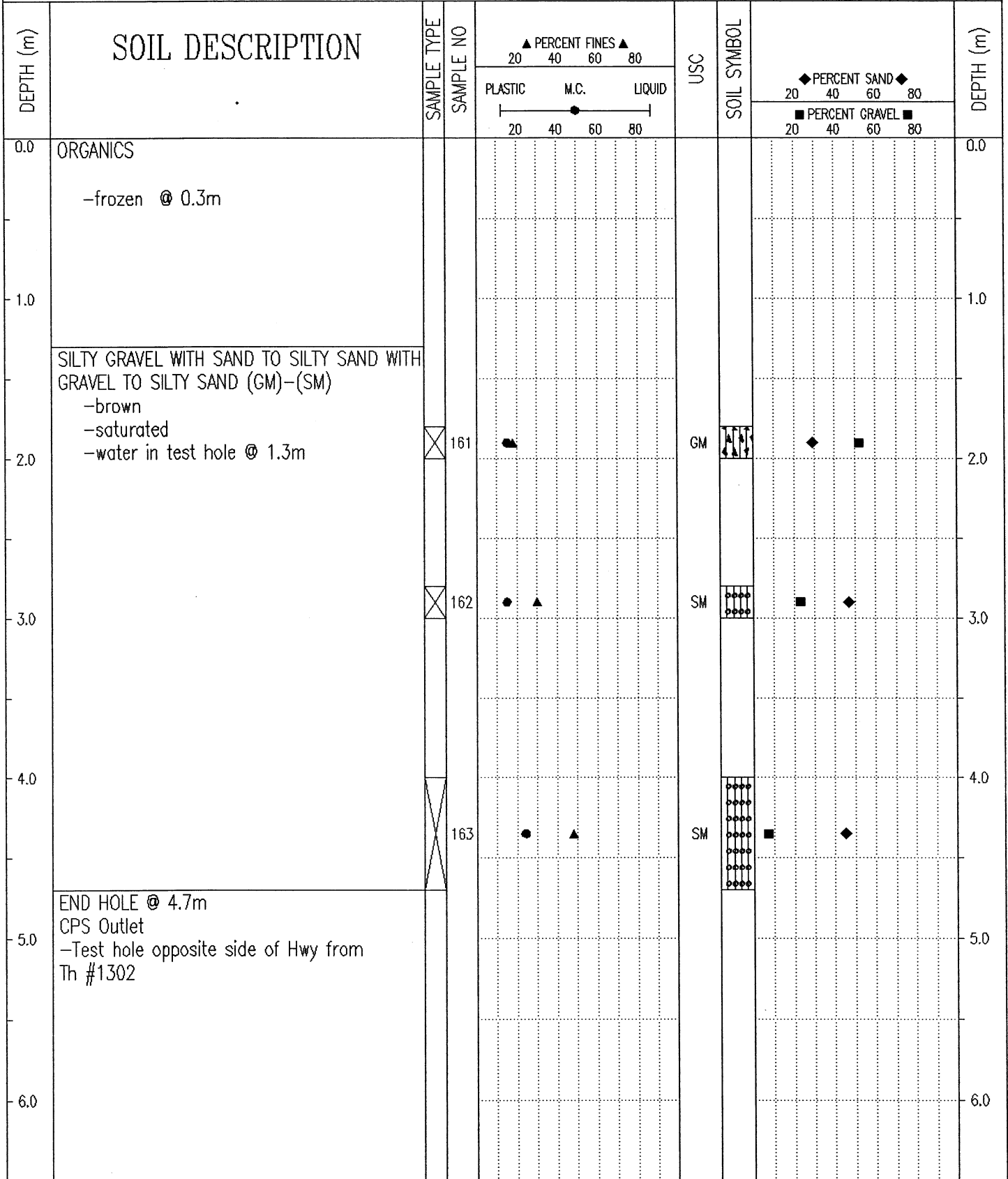
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 542-1333
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1743+869 17.8M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1302								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-D361								
B-40L		LOCATION: 1743+879 12M 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	SILT (ML) -brown -frozen below 0.2m											0.0
1.0			40									1.0
2.0	SILTY GRAVEL WITH SAND (GM) -not frozen		41				GM					2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -wet to saturated		42				SM					3.0
4.0			43				SM					4.0
5.0	END HOLE @ 4.7m											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1334				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1743+967 19.8M 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	DEPTH (m)
				20 40 60 80	PLASTIC M.C. LIQUID			
				20 40 60 80			◆ PERCENT GRAVEL ■	20 40 60 80
0.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)							
	-grey							
	-damp							
	-water at 1.0m							
	-unable to retrieve sample below 1.0m							
1.0	-H2O washed off auger	<input checked="" type="checkbox"/>	164			GP-GM		
	-sandy gravel observed (angular)							
2.0	-rough drilling below 2.0m							
3.0	END HOLE @ 3.0M							
	CPS Outlet							
4.0								
5.0								
6.0								
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				REVIEWED BY:		COMPLETE: 00/05/10		
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1303						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1743+978 6.5M 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	SANDY SILT (ML) -brown - grey -frozen									0.0
1.0		<input checked="" type="checkbox"/>	44			ML				1.0
3.0	SILTY GRAVEL WITH SAND (GM) -saturated -easier drilling	<input checked="" type="checkbox"/>	45			GM				3.0
4.0	-no sample recovered sample washed off									4.0
5.0	END HOLE @ 4.7m									5.0
6.0										6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1335								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1744+068 16.7M 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 & ASH (mixture)											0.0
1.0	SILTY SAND WITH GRAVEL (SM) -organic contamination 1.0m to 1.7m -black -wet -grey below 1.7m -saturated below 1.7m -olive below 2.6m	<input checked="" type="checkbox"/>	165	●	▲		SM	◆	■	◆		1.0
2.0		<input checked="" type="checkbox"/>	166	●	▲		SM	◆	■	◆		2.0
3.0		<input checked="" type="checkbox"/>	167	●	▲		SM	◆	■	◆		3.0
4.0		<input checked="" type="checkbox"/>	168	●	▲		SM	◆	■	◆		4.0
5.0	END HOLE @ 4.7m Culvert outlet											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1304						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1744+073 5.7M 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	SANDY SILT (ML) -black -frozen									0.0
1.0	SILT WITH SAND TO SANDY SILT (ML) -black - brown -not frozen	<input checked="" type="checkbox"/>	46			ML	<input type="checkbox"/>			1.0
2.0		<input checked="" type="checkbox"/>	47			ML	<input type="checkbox"/>			2.0
3.0										3.0
4.0		<input checked="" type="checkbox"/>	48			ML	<input type="checkbox"/>			4.0
5.0	END HOLE @ 4.7m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/04/26 Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1305				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1744+112 11.9M 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	SILTY SAND (SM) -frozen							0.0
1.0		<input checked="" type="checkbox"/>	49	● ▲	SM	● ■ ◆		1.0
2.0	SILT (ML) -brown -moist	<input checked="" type="checkbox"/>	50	● ▲	ML	◆		2.0
3.0	SILTY SAND (SM) -brown -wet	<input checked="" type="checkbox"/>	51	● ▲	SM	● ■ ◆		3.0
4.0	SILTY SAND WITH GRAVEL (SM) -brown -wet -grindy	<input checked="" type="checkbox"/>	52	● ▲	SM	● ■ ◆		4.0
5.0	END HOLE @ 4.7m							5.0
6.0								6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.	COMPLETION DEPTH: 4.7 m			
				REVIEWED BY:	COMPLETE: 00/04/26			
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1306								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1744+161 18.2M 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	ICE (seasonal) -CPS Inlet										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -black -wet		53	20	40	60	SM	20	40	60	80	1.0
2.0	SILTY SAND TO SILTY SAND WITH GRAVEL (SM) -olive brown -wet		54	20	40	60	SM	20	40	60	80	2.0
3.0												3.0
4.0												4.0
5.0	END HOLE @ 4.7m		55	20	40	60	SM	20	40	60	80	5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1336						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1744+169 22.7M 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 SILTY SAND WITH GRAVEL (SM) -frozen (seasonal)									0.0
1.0	-saturated below 1.2m -water in hole below 1.5m									1.0
2.0		X	169	●	▲	SM	◆	■		2.0
3.0		X	170	●	▲	SM	◆	■		3.0
4.0		X	171	●	▲	SM	◆	■		4.0
5.0	END HOLE @ 4.7m Culvert outlet	X	172	●	▲	SM	◆	■		5.0
6.0										6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1307				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1744+237 13.9M 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	DEPTH (m)
				PLASTIC	M.C.			
0.0	SILTY SAND TO SILTY SAND WITH GRAVEL (SM) -grey -frozen to damp (seasonal)			20	40	60	80	0.0
1.0	-damp below 1.0m -easier drilling below 1.0m	<input checked="" type="checkbox"/>	56	●	▲			1.0
2.0	-easy smooth drilling below 1.8m	<input checked="" type="checkbox"/>	57	●	▲			2.0
3.0	-grindy drilling @ 3.0m	<input checked="" type="checkbox"/>	58	●	▲			3.0
4.0								4.0
5.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	59	●	▲			5.0
6.0								6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1308				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1744+331 17.4M 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	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC							0.0
	SANDY SILT TO SILT (ML)							
	-brown							
	-frozen (Vx)							
1.0								1.0
	-frozen tight drilling @ 1.5m							
2.0								2.0
	SILTY SAND WITH GRAVEL (SM)							
	-frozen (Vx)							
3.0								3.0
	SILT WITH SAND (ML)							
	-grey							
	-frozen							
4.0								4.0
5.0								5.0
	SILTY SAND WITH GRAVEL (SM)							
	-grey							
6.0								6.0
	END HOLE @ 5.8m							
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1309								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1744+445 13.3M 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	
0.0	SILTY SAND WITH GRAVEL (SM) -grey -damp - frozen -previously stripped - no organics -damp below 1.2m -grindy below 1.2m -brown below 2.0m -wet below 2.0m	<input checked="" type="checkbox"/>	65	●	▲		SM	●●●●	■	◆	0.0	
1.0				●	▲			●●●●	■	◆		1.0
2.0				●	▲			●●●●	■	◆		2.0
3.0				●	▲			●●●●	■	◆		3.0
4.0	SILTY SAND (SM) -trace of organics -grey -wet	<input checked="" type="checkbox"/>	68	●	▲		SM	●●●●	■	◆	4.0	
5.0				●	▲			●●●●	■	◆		5.0
6.0	END HOLE @ 4.7m										6.0	
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1337						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1744+459 10.1M 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	ORGANICS -frozen (seasonal)									0.0
1.0	-water in hole @ 1.0m									1.0
1.5	SILTY GRAVEL WITH SAND (GM) -grey -wet -grindy drilling	<input checked="" type="checkbox"/>	173	●	▲		GM	▲▲▲	■	1.5
2.5	SILTY SAND TO SANDY SILT (SM)-(ML) -brown -saturated	<input checked="" type="checkbox"/>	174	●	▲		SM	○○○○	■ ◆	2.5
4.5	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	175	●	▲		ML		■ ◆	4.5
5.0										5.0
6.0										6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1310								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1744+502 13.6M 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	SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (GM)-(SM) -previously stripped -brown -frozen -damp to dry -grinding @ 0.5m											0.0
1.0		⊗	69	●	▲		GM	◆	■			1.0
2.0	-damp below 1.5m -rough drilling below 1.5m	⊗	70	●	▲		SM	◆	■			2.0
3.0	SANDY SILT (ML) -brown -wet -easier drilling	⊗	71	●	▲		ML	◆	■			3.0
4.0	SILTY SAND WITH GRAVEL (SM) -moist	⊗	72	●	▲		SM	◆	■			4.0
5.0	END HOLE @ 4.7m											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1311								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1744+591 19.5M 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											0.0
	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY SAND WITH GRAVEL (GP-GM)-(SM)											
	-damp to moist											
	-grey											
	-sub-angular											
1.0	-rough drilling @ 1.0m		73				GP-GM					1.0
	-harder drilling @ 1.5m											
2.0			74				SM					2.0
	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY SAND WITH GRAVEL (GP-GM)-(SM)											
	-brown											
	-frozen											
3.0			75				GP-GM					3.0
4.0												
5.0	END HOLE @ 4.7m		76				SM					5.0
6.0												6.0

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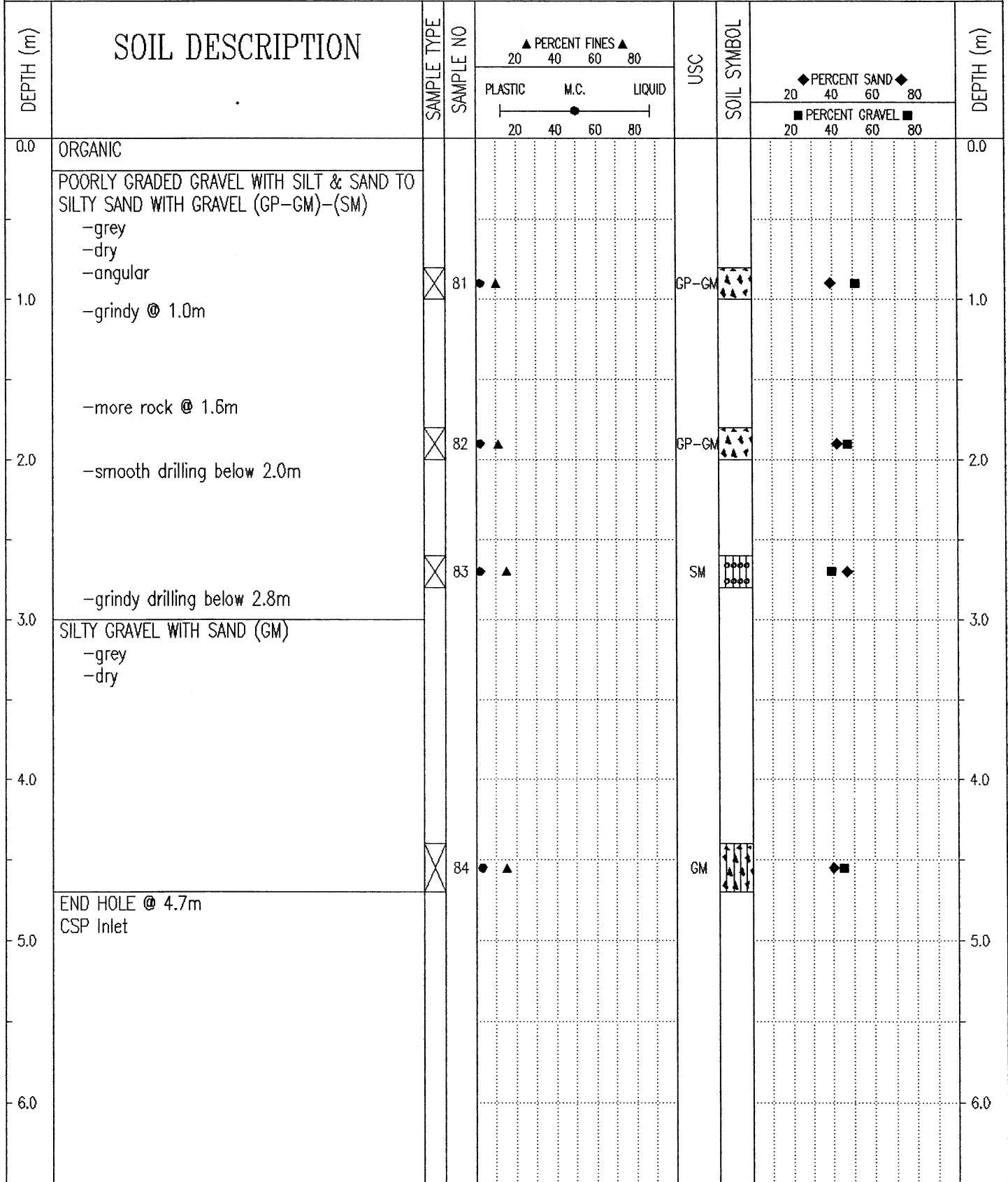
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COMPLETION DEPTH: 4.7 m
COMPLETE: 00/04/27

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1338							
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361							
B-40L		LOCATION: 1744+593 16.9M 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)	
				20	40						60
				PLASTIC	M.C.	LIQUID					
				20	40	60	80				
0.0	SILTY SAND WITH GRAVEL (SM) -damp -angular									0.0	
1.0	-seam of frozen silt 1.0m to 1.2m -brown below 1.2m -dry below 1.2m -grindy below 1.2m	<input checked="" type="checkbox"/>	176	●	▲		SM	◆	■	1.0	
2.0	-easier drilling below 2.0m	<input checked="" type="checkbox"/>	177	●	▲		SM	◆	■	2.0	
3.0	-wet below 3.0m -smooth drilling below 3.0m	<input checked="" type="checkbox"/>	178	●	▲		SM	◆	■	3.0	
4.0										4.0	
5.0	END HOLE @ 4.7m Culvert outlet	<input checked="" type="checkbox"/>	179	●	▲		SM	◆	■	5.0	
6.0										6.0	
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1312						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1744+700 19M 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									0.0
	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)									
	-grey									
	-dry									
	-sub-angular									
1.0	-rough drilling @ 1.0m	<input checked="" type="checkbox"/>	77	▲			GP-GM	◆	■	1.0
	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)									
	-grey									
	-damp									
2.0		<input checked="" type="checkbox"/>	78	▲			SW-SM	◆	■	2.0
	-frozen (Nf) below 2.5m									
	-harder drilling from 2.5m									
3.0		<input checked="" type="checkbox"/>	79	▲			SW-SM	◆	■	3.0
4.0	SILTY SAND WITH GRAVEL (SM)									
	-grey									
	-damp									
	-hard slow grindy drilling									
5.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	80	▲			SM	◆	■	5.0
6.0										6.0
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				REVIEWED BY:		COMPLETE: 00/04/27				
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 541-1313
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-D361
B-40L	LOCATION: 1744+772 16.7M 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



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1339				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1744+781 16.9RT		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	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC -black							0.0
1.0	SILTY SAND WITH GRAVEL (SM) -with organic -brown -dry	<input checked="" type="checkbox"/>	180	● ▲		SM	◆ ■	1.0
2.0	-grey below 1.3m -organic contamination from above -grindy drilling below 1.3m	<input checked="" type="checkbox"/>	181	● ▲		SM	◆ ■	2.0
3.0	SILT (ML) -brown -moist -smooth drilling	<input checked="" type="checkbox"/>	182	● ▲		ML	◆ ■	3.0
4.0	SILTY GRAVEL WITH SAND (GM)							
5.0	END HOLE @ 4.7m Culvert Outlet	<input checked="" type="checkbox"/>	183	● ▲		GM	◆ ■	5.0
6.0								6.0
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				REVIEWED BY:		COMPLETE: 00/05/10		
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1314							
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361							
B-40L		LOCATION: 1744+962 19.8M 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	ORGANIC										0.0
	SILT (ML) -grey -frozen (Vx)										
1.0		⊗	85				ML				1.0
	SILTY GRAVEL WITH SAND (GM) -olive -frozen (Vx) -grindy drilling										
2.0		⊗	86				GM				2.0
	SANDY SILT WITH GRAVEL (ML) -olive -frozen										
3.0		⊗	87				ML				3.0
	SILTY GRAVEL WITH SAND (GM) -olive -frozen -smoother below 3.0m										
4.0		⊗	88				GM				4.0
5.0		⊗	89				GM				5.0
	END HOLE @ 5.0m										
6.0											6.0

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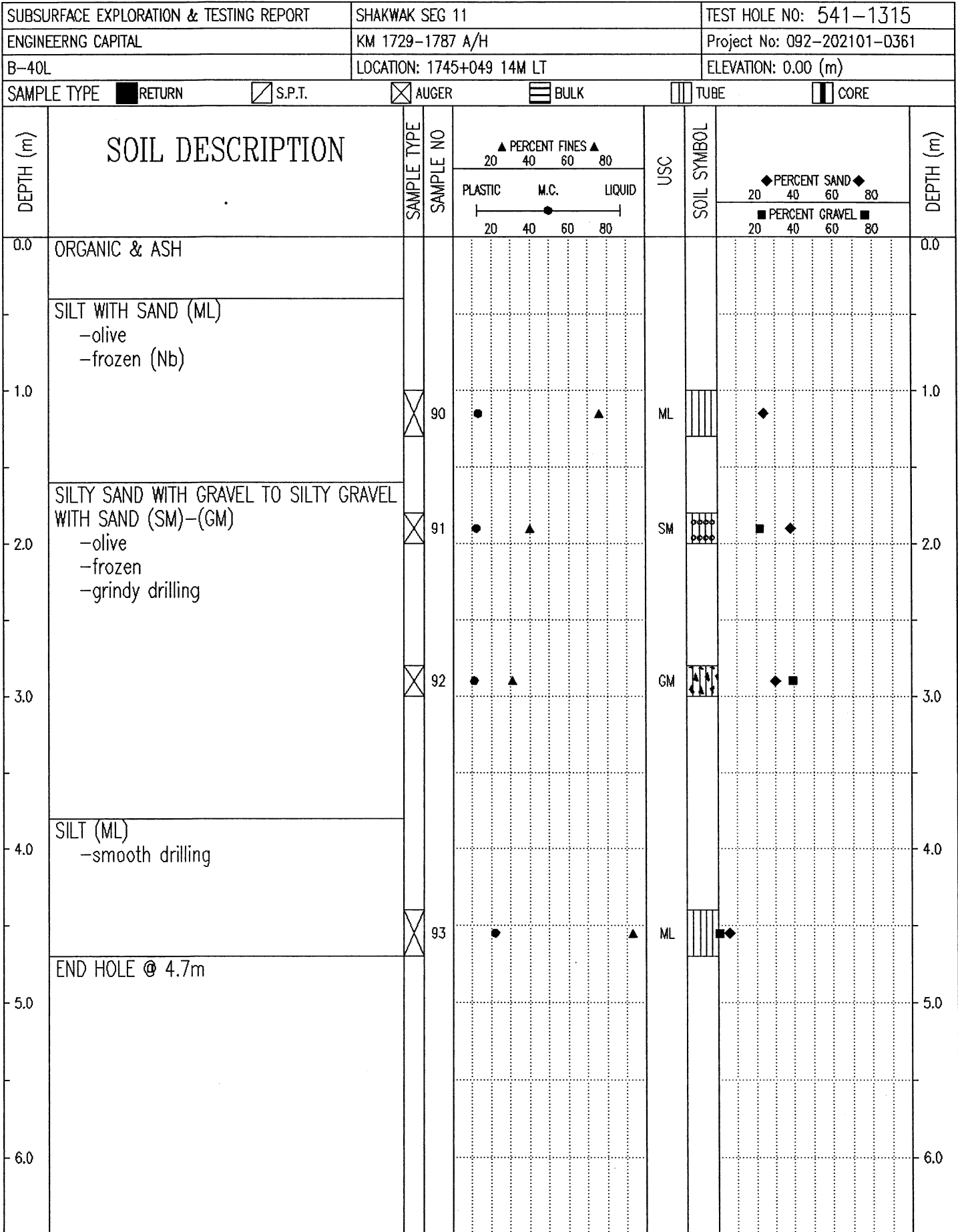
COMPLETION DEPTH: 5.0 m

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COMPLETION DEPTH: 4.7 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1316								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1745+123 17M 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 -could be old stripping piles											0.0
1.0	SILT WITH SAND (SM) -olive -damp	☒	94	●	▲		SM	◆◆◆◆	■	◆		1.0
2.0	ORGANIC -smooth easy drilling SANDY GRAVELLY SILT -moist -grindy @ 1.6m -last sample # 95)	☒	95	●								2.0
3.0	SILTY SAND WITH GRAVEL (SM) -olive -moist	☒	96	●	▲		SM	◆◆◆◆	■	◆		3.0
4.0	SILTY GRAVEL WITH SAND (GM) -olive -moist -more rocks @ 3.3m	☒	97	●	▲		GM	◆◆◆◆		◆	■	4.0
5.0	END HOLE @ 4.7M CPS Outlet											5.0
6.0												6.0

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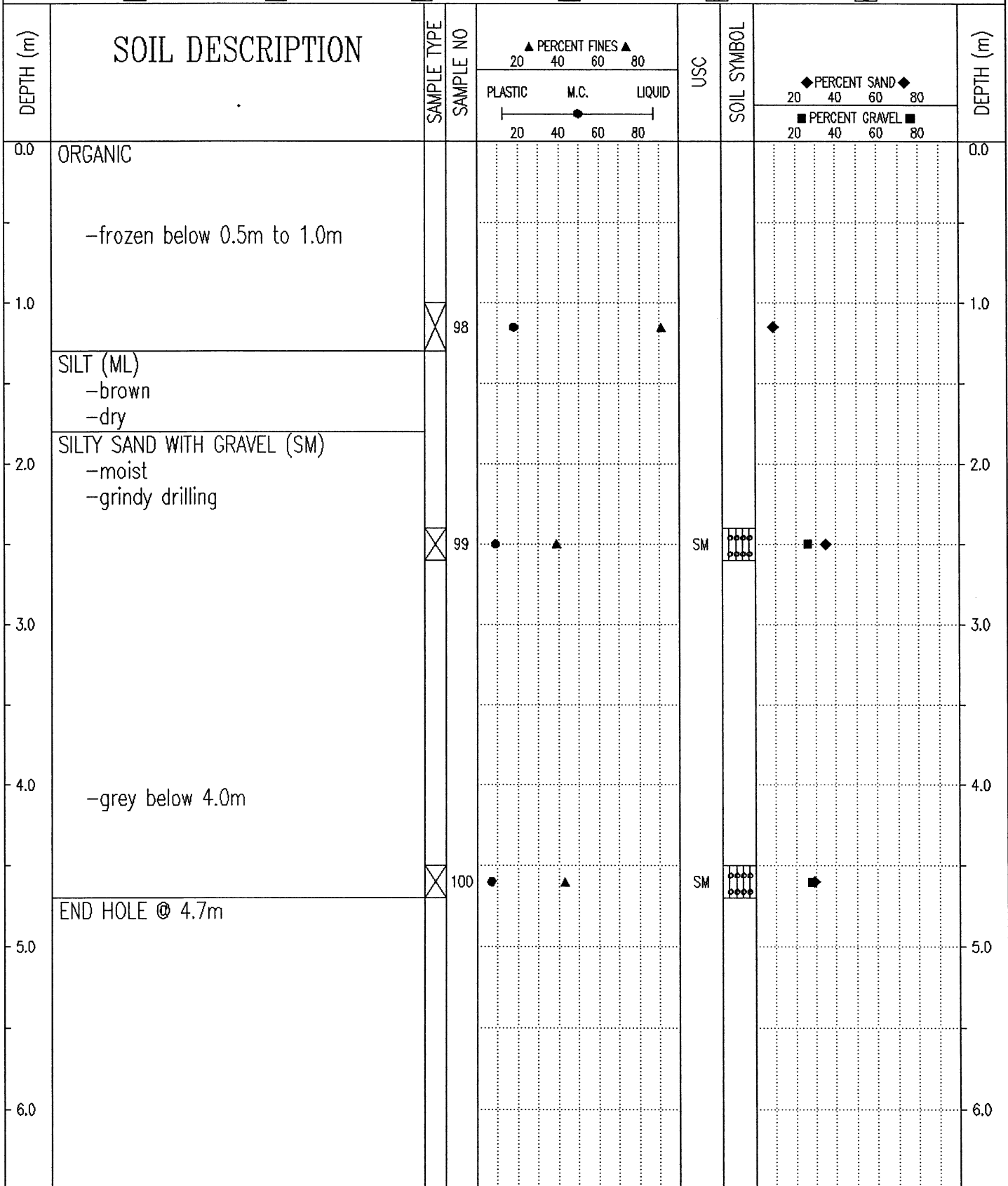
COMPLETION DEPTH: 4.7 m

COMPLETE: 00/04/28

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1340							
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361							
B-40L		LOCATION: 1745+126 13.6M 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	
0.0	ORGANIC SILT (ML) -brown -frozen (seasonal)										0.0
1.0		<input checked="" type="checkbox"/>	184				ML				1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -grindy drilling @ 1.6m	<input checked="" type="checkbox"/>	185				SM				2.0
3.0		<input checked="" type="checkbox"/>	186				SM				3.0
4.0											4.0
5.0	END HOLE @ 4.7m Note: Opposite side of hwy from TH-1316	<input checked="" type="checkbox"/>	186				SM				5.0
6.0											6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/10		Fig. No: Page 1 of 1			

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 541-1317
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1745+207 6.3M 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		



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1341								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1745+262 12M 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 SILTY SAND (SM) -olive -frozen											0.0
1.0		<input checked="" type="checkbox"/>	188	●	▲		SM	▨	■	◆		1.0
2.0	SANDY SILT (SM) -brown -damp to moist -grindy drilling -smoother drilling 2.2m to 2.8m	<input checked="" type="checkbox"/>	189	●	▲		ML	▨	■	◆		2.0
3.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -damp to moist -grindy drilling	<input checked="" type="checkbox"/>	190	●	▲		SM	▨	■	◆		3.0
4.0												4.0
5.0	END HOLE @ 4.7m Culvert Outlet	<input checked="" type="checkbox"/>	191	●	▲		GM	▨	■	◆		5.0
6.0												6.0

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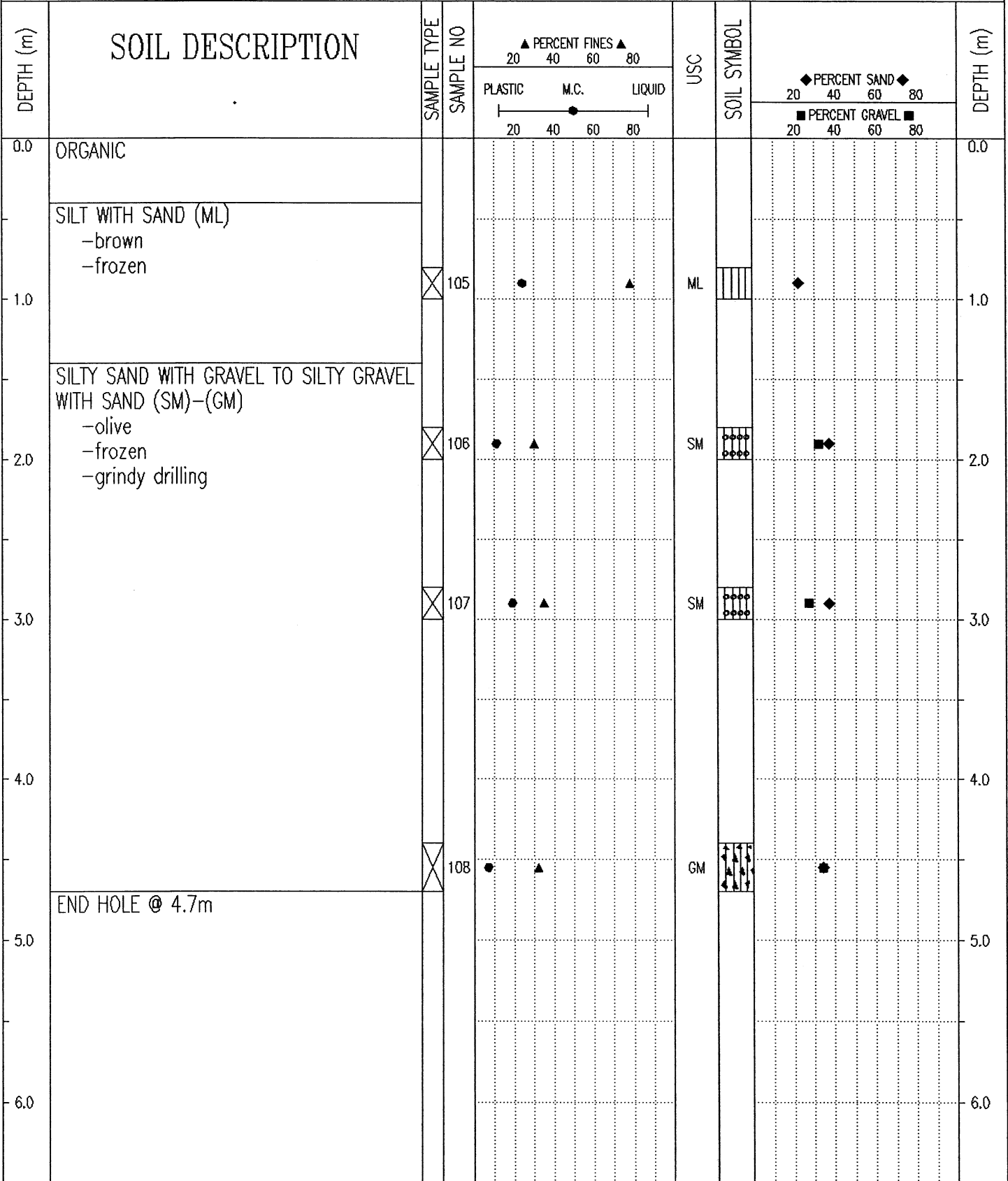
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1318								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1745+305 26.4M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
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 -frozen											0.0
1.0	SILT WITH SAND (SM) -frozen	⊗	101				ML					1.0
2.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen (Vx) -grinding @ 1.3m -more rocks @ 2.0m	⊗	102	●	▲		SM	●●●●	■	◆		2.0
3.0		⊗	103	●	▲		SM	●●●●	■	◆		3.0
4.0		⊗	104	●	▲		SM	●●●●	■	◆		4.0
5.0	END HOLE @ 4.7m											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 541-1319
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1745+400 5.7 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	



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1342								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1745+491 21.6M 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, GRAVEL & SILT (mix) -previously disturbed											0.0
1.0	SANDY SILT (ML) -brown -moist	<input checked="" type="checkbox"/>	192	●	▲		ML	■	◆			1.0
2.0	SILTY SAND WITH GRAVEL (SM) -grey -wet -easy smooth drilling	<input checked="" type="checkbox"/>	193	●	▲		SM	■	◆			2.0
3.0	SILTY SAND (SM) -brown -moist	<input checked="" type="checkbox"/>	194	●	▲		SM	■	◆			3.0
4.0	END HOLE @ 4.7m Culvert Outlet - lots of water -5m gully											4.0
5.0												5.0
6.0												6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1320						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1745+499 16M 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	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC & SILT (MIX) -stripping -frozen									0.0
1.0										1.0
2.0	SANDY SILT (ML) -grey -frozen	<input checked="" type="checkbox"/>	109	●	▲		ML	■	◆	2.0
3.0	SILTY SAND WITH GRAVEL TO SILTY SAND (SM) -brown -frozen -moist below 2.8m	<input checked="" type="checkbox"/>	110	●	▲		SM	■	◆	3.0
4.0	-smooth easy drilling below 3.4m	<input checked="" type="checkbox"/>	111	●	▲		SM	■	◆	4.0
5.0	END HOLE @ 4.7m CPS Inlet	<input checked="" type="checkbox"/>	112	●	▲		SM	■	◆	5.0
6.0										6.0
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1321								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1745+583 13.8M 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			20	40	60	
0.0	ORGANIC & SILT (Mix) -stripping											0.0
1.0	SILT TO SILT WITH SAND (ML) -grey -frozen (Vx)	⊗	113				ML					1.0
2.0		⊗	114				ML					2.0
3.0	SILTY SAND WITH GRAVEL (SM) -frozen -grindy drilling	⊗	115				SM					3.0
4.0		⊗	116				SM					4.0
5.0	END HOLE @ 4.7m											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1343									
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361									
B-40L		LOCATION: 1745+631 16.4M 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.	LIQUID			20	40	60		
0.0	ORGANIC												0.0
	SILTY SAND (SM) -brown -frozen (seasonal)												
1.0		X	195	●	▲		SM	▣		◆			1.0
	SILTY GRAVEL WITH SAND (GM) -damp												
2.0		X	196	●	▲		GM	▣		◆	■		2.0
	SANDY SILT (ML) -brown -damp												
3.0		X	197	●		▲	ML	▣		◆			3.0
	SILTY SAND WITH GRAVEL (SM) -brown -wet												
4.0		X	198	●	▲		SM	▣		◆	■		4.0
	-rough drilling below 4.0m												
5.0		X	199	●	▲		SM	▣		◆	■		5.0
	END HOLE @ 4.7m CPS Outlet												
6.0													6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1322						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1745+752 9.9M 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 & ICE -stripping -frozen									0.0
1.0	SILT (ML) -olive -frozen (Vx)	<input checked="" type="checkbox"/>	117			ML				1.0
2.0		<input checked="" type="checkbox"/>	118			ML				2.0
3.0	SILTY SAND WITH GRAVEL (SM) -frozen -grindy drilling	<input checked="" type="checkbox"/>	119			SM				3.0
4.0	SILT (ML) -brown -frozen (Vx) -tight drilling	<input checked="" type="checkbox"/>	120			ML				4.0
5.0	END HOLE @ 4.7m									5.0
6.0										6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1323								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1745+865 4.4m 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 -stripping piles -frozen below 0.5m											0.0
1.0	SILTY SAND (SM) -brown -frozen (Vx)	X	121	●	▲		SM	▣	◆			1.0
2.0	SILT (ML) -brown -frozen (Vx)	X	122		●	▲	ML	▣	◆			2.0
3.0		X	123		●	▲	ML	▣	◆			3.0
4.0	-easier drilling below 2.5m											4.0
5.0	END HOLE @ 4.7m	X	124	●	▲		ML	▣	◆			5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1324								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1745+970 3.7M 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 SILTY SAND (ML) -frozen (Nf)			20	40	60	80	20	40	60	80	0.0
1.0		<input checked="" type="checkbox"/>	125									1.0
2.0	SILT WITH SAND (ML) -frozen (Vx)											2.0
		<input checked="" type="checkbox"/>	126									
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -grindy drilling											3.0
		<input checked="" type="checkbox"/>	127									
4.0												4.0
		<input checked="" type="checkbox"/>	128									
5.0	END HOLE @ 4.7m											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1325						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1746+049 4.7M 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									0.0
0.0 - 1.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen (Vx)									
1.0	-grindy drilling @ 1.0m	<input checked="" type="checkbox"/>	129	▲	●		SM	■	◆	1.0
1.0 - 2.0	SILTY SAND TO SILTY SAND WITH GRAVEL (SM) -frozen -smoother drilling									
2.0		<input checked="" type="checkbox"/>	130	●	▲		SM	■	◆	2.0
2.0 - 3.0										
3.0		<input checked="" type="checkbox"/>	131	▲			SM	■	◆	3.0
3.0 - 4.0										
4.0										
4.0 - 5.0										
5.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	132	●	▲		SM	■	◆	5.0
5.0 - 6.0										
6.0										6.0
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				REVIEWED BY:		COMPLETE: 00/04/28				
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 541-1326				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1746+146 3.9M 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	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC							0.0
	SILTY SAND (SM) -frozen							
1.0		<input checked="" type="checkbox"/>	133	●	▲		SM	1.0
	SILTY SAND WITH GRAVEL (SM) -rusty orange -frozen -grindy drilling							
2.0		<input checked="" type="checkbox"/>	134	●	▲		SM	2.0
	-rough drilling @ 2.5m							
3.0		<input checked="" type="checkbox"/>	135	●	▲		SM	3.0
4.0								4.0
5.0		<input checked="" type="checkbox"/>	136	●	▲		SM	5.0
	END HOLE @ 4.7m							
6.0								6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.7 m		
				REVIEWED BY:		COMPLETE: 00/04/28		
				Fig. No:		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 542-1327								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1746+147 9.0M 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 -frozen											0.0
1.0	SILT WITH SAND (ML) -olive -frozen -grinding @ 0.8m -frozen (Vx) below 1.2m	⊗	137	●		▲	ML	▨	■	◆		1.0
2.0		⊗	138		●	▲	ML	▨	■	◆		2.0
3.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen (Vc)	⊗	139	●	▲		SM	▨	■	◆		3.0
4.0	SILTY GRAVEL WITH SAND (GM) -olive -frozen -more gravel below 3.5m											
5.0	END HOLE @ 4.7m CPS Outlet	⊗	140	●	▲		GM	▨	■	◆		5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.				COMPLETION DEPTH: 4.7 m				
				REVIEWED BY:				COMPLETE: 00/05/02				
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 542-1328								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1746+147 22.3M 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 SILTY SAND WITH GRAVEL (SM) -brown -frozen											0.0
1.0	-grinding @ 1.0m											1.0
1.41		X	141	●	▲		SM	○	■	◆		
2.0												2.0
2.142		X	142	●	▲		SM	○	■	◆		
3.0	-olive below 2.5m											3.0
3.143		X	143	●	▲		SM	○	■	◆		
4.0	SILTY GRAVEL WITH SAND (GM) -olive -frozen (Vx)											4.0
4.144		X	144	●	▲		GM	○	■	◆		
5.0	END HOLE @ 4.7m											5.0
6.0												6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1344										
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361										
B-40L		LOCATION: 1746+204 4.3M 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 ◆	■ PERCENT GRAVEL ■	DEPTH (m)				
				PLASTIC	M.C.						LIQUID	20	40	60
0.0	ORGANIC -frozen									0.0				
1.0	SANDY SILT (ML) -brown -frozen (Vx) -tight drilling									1.0				
2.0	-no visible ice below 2.0m									2.0				
3.0			200				ML			3.0				
4.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen									4.0				
4.0	END HOLE @ 4.0m -refusal		201				ML			4.0				
4.0			202				SM			4.0				
5.0										5.0				
6.0										6.0				

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COMPLETION DEPTH: 4.0 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1345						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1746+264 18.4M 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 -black -frozen									0.0
1.0	SILTY SAND (SM) -brown -frozen	<input checked="" type="checkbox"/>	203	●	▲		SM	■	◆	1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -more rock @ 2.0m	<input checked="" type="checkbox"/>	204	●	▲		SM	■	◆	2.0
3.0	-wet below 3.0m									3.0
4.0										4.0
5.0	END HOLE @ 4.7m Note: Culvert installation site Outlet	<input checked="" type="checkbox"/>	205	●	▲		SM	■	◆	5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/11		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1346						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1746+268 16M 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 & SILT -frozen									0.0
1.0	SILTY SAND (SM) -frozen -water contaminated from surface		206				SM			1.0
2.0	-sample #207 is more representative - less H2O contamination		207				SM			2.0
3.0	SILTY SAND WITH GRAVEL (SM) -frozen -H2O contamination		208				SM			3.0
	END HOLE @ 3.0m -refusal CMP Outlet									
4.0										4.0
5.0										5.0
6.0										6.0

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COMPLETION DEPTH: 3.0 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1347				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1746+337 3.2M 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	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC -frozen (Vx)							0.0
1.0	SILT (ML) -brown -frozen -smooth drilling		209			ML		1.0
2.0	SILT WITH SAND (ML) -brown -frozen - no visible ice -grinding @ 2.2m		210			ML		2.0
3.0	SILT (ML) -with ice - estimate 50% -brown		211			ML		3.0
4.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen -rocks @ 3.8m - angular END HOLE @ 4.0m -refusal		212			GM		4.0
5.0								5.0
6.0								6.0

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1348								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1746+443 0.5M 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 & ASH -frozen										0.0	
1.0											1.0	
2.0	SILT (ML) -brown -frozen (Vx) -smooth drilling	<input checked="" type="checkbox"/>	212		●	▲	ML	▨	◆		2.0	
2.0	ICE										2.0	
3.0	SILT WITH SAND (ML) -brown -frozen (Vx)	<input checked="" type="checkbox"/>	213		●	▲	ML	▨	◆		3.0	
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -angular -hard grindy drilling	<input checked="" type="checkbox"/>	214	●	▲		SM	▨	◆	■	3.0	
4.0											4.0	
4.0		<input checked="" type="checkbox"/>	215	●	▲		SW	▨	◆	■	4.0	
5.0	END HOLE @ 4.5m										5.0	
6.0											6.0	

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1349								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1746+552 18.7M 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 -frozen											0.0
1.0	SILT & ICE -brown -frozen											1.0
2.0	SILT WITH SAND (ML) -brown -frozen (Vx)	<input checked="" type="checkbox"/>	216	●	▲		ML		◆			2.0
2.5	ORGANIC -frozen (Vx)											
3.0	SILT WITH SAND (ML) -brown -frozen	<input checked="" type="checkbox"/>	217	●	▲		ML		◆			3.0
3.5	SILT (ML) -brown -frozen (Vx) -trace grinding	<input checked="" type="checkbox"/>	218	●	▲		ML		◆			3.5
4.0	SILTY SAND WITH GRAVEL (SM) -frozen -rough grindy	<input checked="" type="checkbox"/>	219	●	▲		SM	■	◆			4.0
5.0	END HOLE @ 4.5m -refusal Note: CMP location either 10m upchain or down chain - flowing @ both locations											5.0
6.0												6.0

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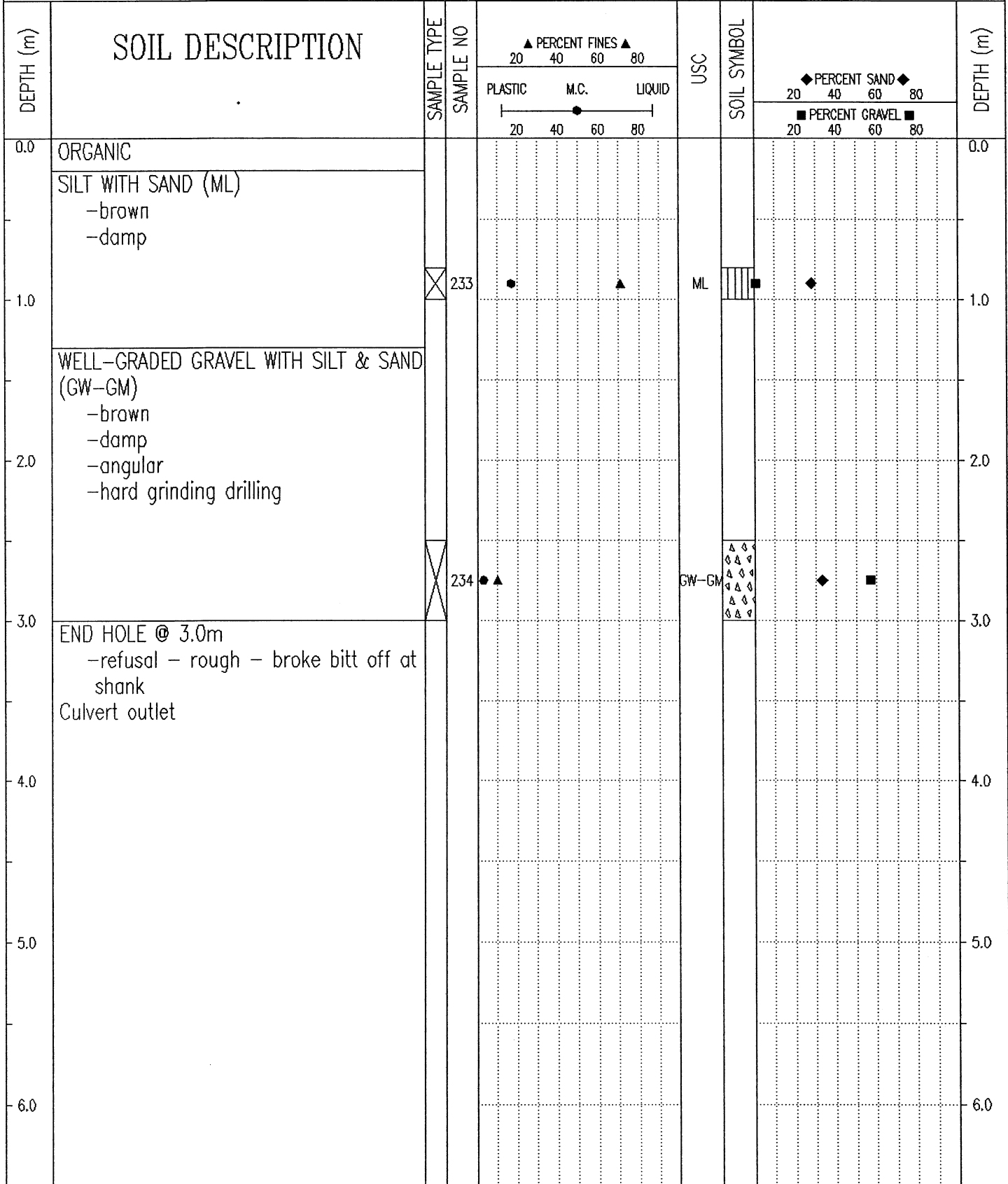
SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1350						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1746+561 8.3M RT		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> 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.					
0.0	ORGANIC & ICE -frozen									0.0
1.0	SILT WITH SAND TO SILT (ML) -brown -frozen (Vx) -smooth drilling		220			ML				1.0
2.0										2.0
3.0	SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (GM)-(SM) -brown -frozen -grindy		221			ML				2.0
3.0			222			GM				3.0
4.0										4.0
5.0	END HOLE @ 4.7m CMP - Outlet. -surface water @ +540 & +560		223			SM				5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/11		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1351						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1746+664 18.3M 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	
0.0	ORGANIC -frozen									0.0
1.0	SANDY SILT WITH GRAVEL (ML) -brown -frozen (Vc) -grinding slightly @ 1.3m	<input checked="" type="checkbox"/>	224				ML			1.0
2.0	END HOLE @ 1.6m -refusal - hard grinding Note: move 3m upchain - refusal @ 1.6m -moved additional 6m - refusal @ 1.9m - rock dust on bitt Test hole on top of knob.									2.0
3.0										3.0
4.0										4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 1.6 m				
				REVIEWED BY:		COMPLETE: 00/05/11				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1352						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1746+735 6.1M 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 -frozen									0.0
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) -angular -grindy drilling -hard grindy drilling @ 1.25m		225	●	▲		SM	■	◆	1.0
2.0	SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (GM)-(SM) -brown -frozen -smoother drilling 2.0m to 3.0m -angular		226	●	▲		GM	■	◆	2.0
3.0										3.0
4.0	END HOLE @ 3.8m -refusal		229	●	▲		SM	■	◆	4.0
5.0										5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 3.8 m				
				REVIEWED BY:		COMPLETE: 00/05/11				
				Fig. No:		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1353								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1746+820 21.2M 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 -frozen POORLY TO WELL-GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -angular -organic contamination -rough drilling @ 1.3m	<input checked="" type="checkbox"/>	230	●	▲			GP-GM	◆	■		0.0
1.0												1.0
2.0												2.0
3.0		<input checked="" type="checkbox"/>	231	●	▲			GP-GM	◆	■		3.0
4.0		<input checked="" type="checkbox"/>	232	●	▲			GW-GM	◆	■		4.0
5.0												5.0
6.0												6.0
	END HOLE @ 4.0m -refusal Note Large culvert Required - Inlet TH is 5m upchain of a good size creek											
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				REVIEWED BY:		COMPLETE: 00/05/11						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 543-1354
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1746+825 10.6M 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



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1355			
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361			
B-40L		LOCATION: 1746+917 2.6M 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	DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80 20 40 60 80			
0.0	ORGANIC -frozen -slow penetration						0.0
1.0	SILT (ML) -brown -frozen (Vx)	<input checked="" type="checkbox"/>	235	● ▲	ML	◆	1.0
2.0							2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -grinding -rough drilling below 3.0m	<input checked="" type="checkbox"/>	236	● ▲	SM	◆ ■	3.0
4.0	END HOLE @ 3.7m -refusal	<input checked="" type="checkbox"/>	237	● ▲	SM	◆ ■	4.0
5.0							5.0
6.0							6.0

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Fig. No:

COMPLETION DEPTH: 3.7 m
COMPLETE: 00/05/11

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1356								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1746+999 4.8M 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	ORGANICS & ASH -frozen										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -angular -grinding starts @ 0.75m -very rough drilling @ 1.8m	⊗	238	▲			SM	◆	■		1.0	
2.0	SILTY SAND (SM) -brown -frozen -easier drilling - smoother	⊗	239	▲	◆		SM	◆	■		2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen	⊗	240	▲	◆		SM	◆	■		3.0	
4.0	END HOLE @ 3.3m -refusal										4.0	
5.0											5.0	
6.0											6.0	

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COMPLETION DEPTH: 3.3 m
COMPLETE: 00/05/11

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 543-1357
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1747+112 8.1M 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	ORGANIC -frozen										0.0
1.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brown -frozen -angular -grinding	<input checked="" type="checkbox"/>	241	▲	●		SW-SM	◆	■		1.0
2.0	END HOLE @ 2.0m -refusal - rock dust										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

Government of Yukon Transportation Engineering	LOGGED BY: G.C.	COMPLETION DEPTH: 2.0 m
	REVIEWED BY:	COMPLETE: 00/05/11
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1358						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1747+207 25.8M 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	PERCENT GRAVEL ■	
0.0	ORGANIC									0.0
1.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen									1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -grinding starts @ 1.4m -slow drilling below 1.8m	<input checked="" type="checkbox"/>	242	▲			GM	■		2.0
3.0	END HOLE @ 2.6m -refusal Culvert installation - Inlet	<input checked="" type="checkbox"/>	243	◆ ▲			SM	■ ◆		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:		COMPLETION DEPTH: 2.6 m COMPLETE: 00/05/11		Fig. No:		Page 1 of 1

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1359								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1747+215 18.6M 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 -frozen											0.0
1.0	SANDY SILT (ML) -brown -frozen	<input checked="" type="checkbox"/>	244	●	▲		ML	■	◆			1.0
2.0	SILTY SAND WITH GRAVEL TO WELL-GRADED SAND WITH SILT & GRAVEL TO SILTY SAND WITH GRAVEL (SM)-(SW-SM)-(SM) -brown -damp to dry -angular -grindy drilling	<input checked="" type="checkbox"/>	245	●	▲		SM	■	◆			2.0
3.0	-rougher drilling @ 3.0m	<input checked="" type="checkbox"/>	246	●	▲		SW-SM	■	◆			3.0
4.0		<input checked="" type="checkbox"/>	247	●	▲		SM	■	◆			4.0
5.0	END HOLE @ 4.5m Culvert Installation - Outlet											5.0
6.0												6.0

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COMPLETION DEPTH: 4.5 m

COMPLETE: 00/05/11

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1360								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1747+277 4.1M 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 -frozen											0.0
1.0	SILT WITH SAND (ML) -brown -frozen (Vx)		248				ML					1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) -grinding		249				SM					2.0
2.0	SANDY SILT (ML) -brown -frozen (Vx)		250				ML					2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -slow hard drilling		251				SM					3.0
4.0			252				SM					4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0

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COMPLETION DEPTH: 4.5 m

COMPLETE: 00/05/12

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1362							
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361							
B-40L		LOCATION: 1747+348 17M 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	
0.0	ORGANIC & ASH									0.0	
1.0	SILTY SAND (SM) -frozen		256	●	▲		SM	◆	■	1.0	
2.0	POORLY GRADED GRAVEL WITH SILT & SAND TO SILTY SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)-(SM)-(GP-GM) -brown -damp -silt contamination from above -sub-angular -drill grinding -tough drilling @ 2.2m		257	●▲			GP-GM	◆	■	2.0	
3.0			258	●▲			SM	◆	■	3.0	
4.0			259	●▲			GP-GM	◆	■	4.0	
5.0	END HOLE @ 4.5m -refusal Culvert Installation - Outlet									5.0	
6.0										6.0	
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				REVIEWED BY:		COMPLETE: 00/05/12					
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1361					
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361					
B-40L		LOCATION: 1747+353 23M 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)
				20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	20 40 60 80 20 40 60 80				
0.0	ORGANIC & ASH								0.0
1.0	SILTY SAND (SM) -brown -frozen -starts grinding @ 1.4m -H2O contamination from above	<input checked="" type="checkbox"/>	253	● ▲		SM	◆ ■		1.0
2.0	SILTY SAND WITH GRAVEL (SM) -H2O contamination from above	<input checked="" type="checkbox"/>	254	● ▲		SM	◆ ■		2.0
3.0	END HOLE @ 3.0m -refusal Culvert Installation - Inlet	<input checked="" type="checkbox"/>	255	● ▲		SM	◆ ■		3.0
4.0									4.0
5.0									5.0
6.0									6.0

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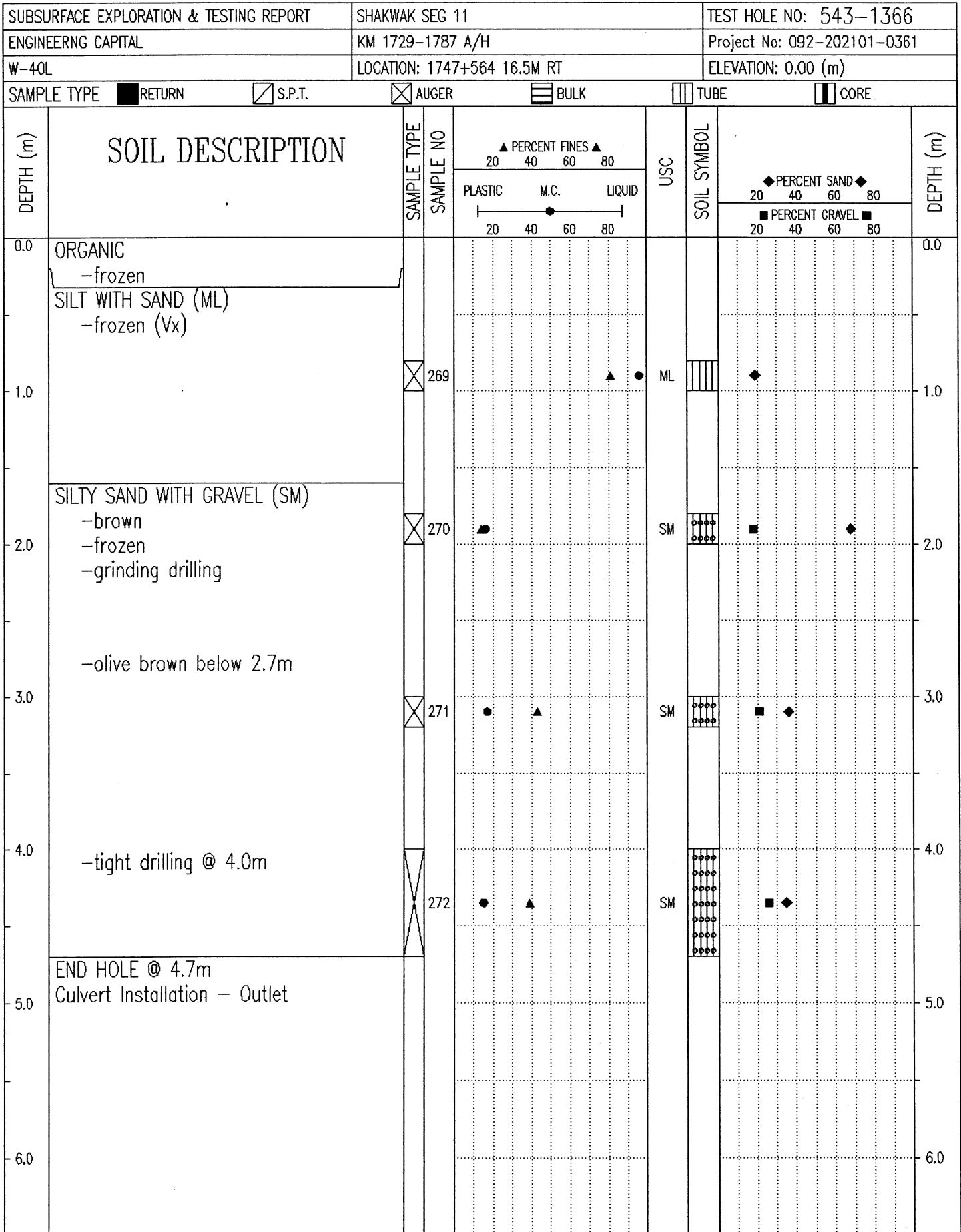
COMPLETION DEPTH: 3.0 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1363								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1747+453 0.4M 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 SANDY SILT (ML) -brown -damp											0.0
1.0		<input checked="" type="checkbox"/>	260	●	▲		ML	▣	◆			1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -damp -drill grinding -easy drilling	<input checked="" type="checkbox"/>	261	●	▲		SM	▣	◆	■		2.0
3.0		<input checked="" type="checkbox"/>	262	●	▲		SM	▣	◆	■		3.0
4.0	SILTY SAND (SM) -brown -frozen -slow hard drilling	<input checked="" type="checkbox"/>	263	●	▲		SM	▣	◆	■		4.0
5.0	END HOLE @ 4.5m Note: 2.5m ledge drop off 5m downchain of this hole.											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: 00/05/12		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1364								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1747+504 3.7M 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 -frozen											0.0
1.0	SILT WITH SAND (ML) -brown -frozen	<input checked="" type="checkbox"/>	264				ML					1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen -hard slow grinding drilling	<input checked="" type="checkbox"/>	265				SM					2.0
3.0		<input checked="" type="checkbox"/>	266				SM					3.0
4.0		<input checked="" type="checkbox"/>	267				SM					4.0
5.0	END HOLE @ 4.5m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 00/05/12						
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COMPLETION DEPTH: 4.7 m

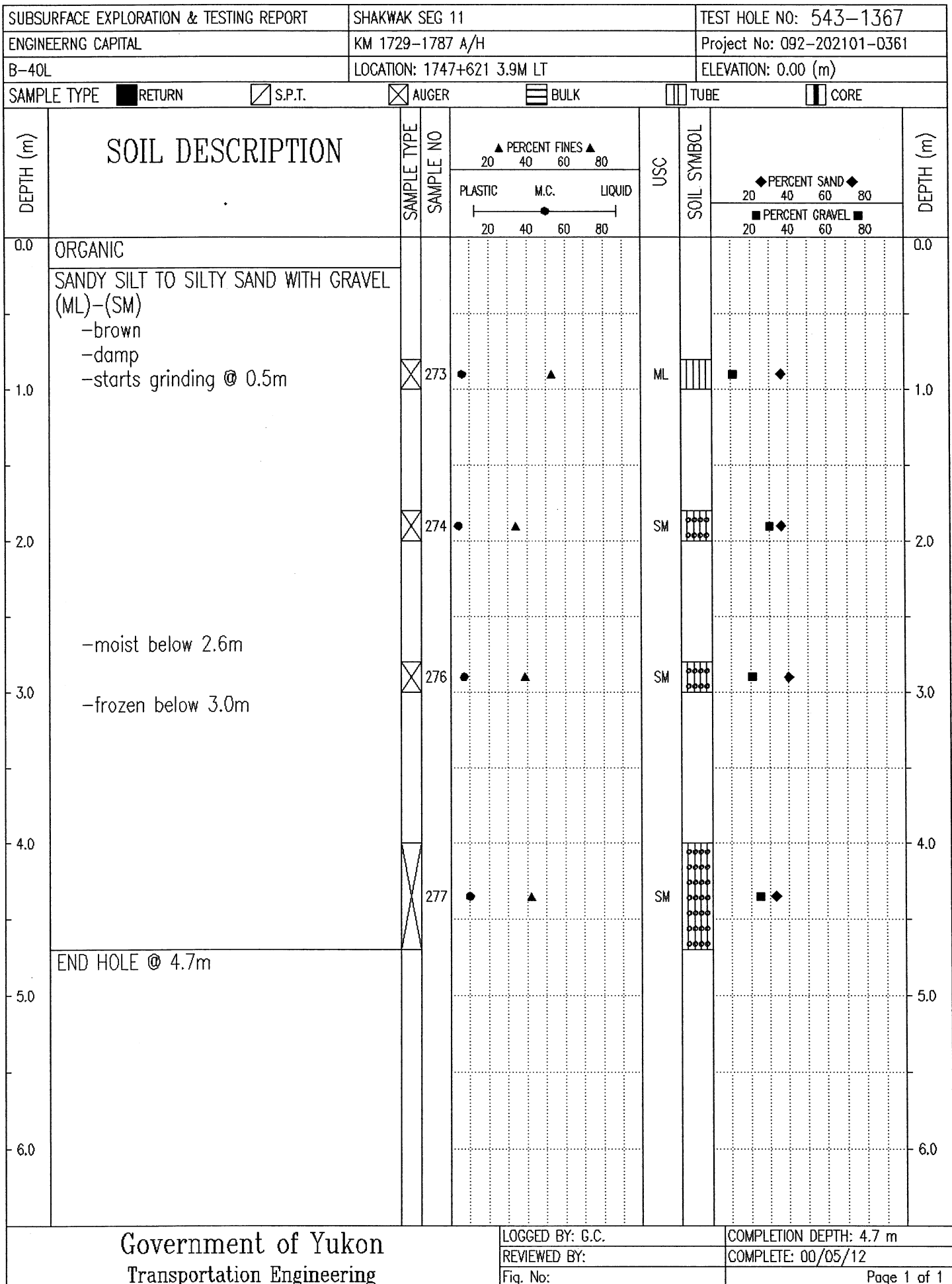
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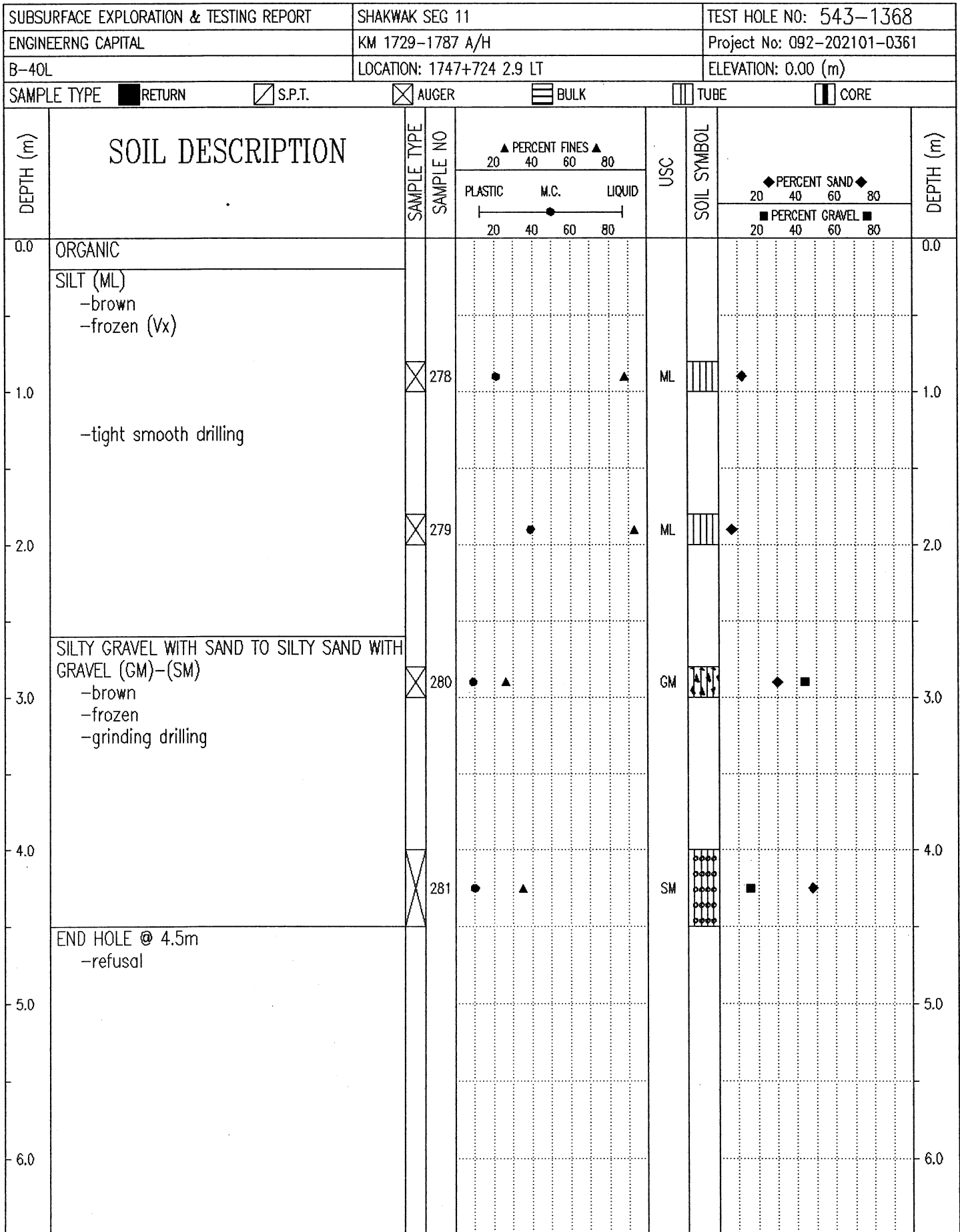
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SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 543-1365
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1747+573 18.9M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input 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											0.0
	ORGANICS & SILT (Mixture) -frozen											
1.0												1.0
	ORGANIC -frozen (Vx)											
2.0												2.0
3.0	SILTY SAND WITH GRAVEL (SM) -frozen -hard grindy drilling @ 3.0m	<input checked="" type="checkbox"/>	268	▲			SM	○○○○	■			3.0
	END HOLE @ 3.2m -refusal Culvert Installation -Inlet											
4.0												4.0
5.0												5.0
6.0												6.0

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COMPLETION DEPTH: 4.5 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 543-1369				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1747+845 5.1M 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	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC							0.0
	SILT (ML) -brown -damp							
1.0		<input checked="" type="checkbox"/>	282	●	▲	ML	◆	1.0
	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -frozen -angular -grinding drilling							
2.0		<input checked="" type="checkbox"/>	283	●	▲	SM	■ ◆	2.0
3.0		<input checked="" type="checkbox"/>	284	●	▲	SM	■ ◆	3.0
4.0		<input checked="" type="checkbox"/>	285	●	▲	GM	◆	4.0
5.0	END HOLE @ 4.7m							5.0
6.0								6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/12 Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1370								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1747+926 24.2M 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 SILTY SAND WITH GRAVEL (SM) -damp -brown -grindy drilling below 0.5m											0.0
1.0		<input checked="" type="checkbox"/>	286	●	▲		SM	▢▢▢▢	◆	■	◆	1.0
2.0	-damp to moist below 1.3m	<input checked="" type="checkbox"/>	287	●	▲		SM	▢▢▢▢	◆	■	◆	2.0
3.0		<input checked="" type="checkbox"/>	288	●	▲		SM	▢▢▢▢	◆	■	◆	3.0
4.0		<input checked="" type="checkbox"/>	289	●	▲		SM	▢▢▢▢	◆	■	◆	4.0
5.0	END HOLE @ 5.0m -Note: small knobs LHS	<input checked="" type="checkbox"/>	290	●	▲		SM	▢▢▢▢	◆	■	◆	5.0
6.0												6.0

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COMPLETION DEPTH: 5.0 m

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COMPLETE: 00/05/15

Fig. No:

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1371								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+001 3.0M 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
	SILT (ML) -olive brown -frozen											
1.0		⊗	291	●		▲	ML	▨	◆			1.0
	SILT WITH SAND (ML) -olive -frozen (Vx)											
2.0		⊗	292		●	▲	ML	▨	◆			2.0
	SILTY SAND WITH GRAVEL TO SANDY SILT (SM)-(ML) -olive -frozen -grindy drilling											
3.0		⊗	293	●	▲		SM	▨	◆	■		3.0
	-hard grindy drilling below 3.0m -tight drilling below 3.0m											
4.0		⊗	294	●	▲		ML	▨	◆	■		4.0
	END HOLE @ 4.0m -refusal											
5.0												5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 4.0 m

COMPLETE: 00/05/15

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1372								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+119 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			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
1.0	SANDY SILT (ML) -frozen -minor surface H2O contamination	<input checked="" type="checkbox"/>	295	●	▲		ML	■	◆		1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen -minor H2O contamination from surface -grindy drilling	<input checked="" type="checkbox"/>	296	●	▲		SM	■	◆		2.0	
3.0	END HOLE @ 3.2m -refusal										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:		COMPLETION DEPTH: 3.2 m COMPLETE: 00/05/15		Fig. No: Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1373								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+129 19M 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 & ASH										0.0	
	SANDY SILT (ML) -brown -frozen											
1.0		<input checked="" type="checkbox"/>	297	●	▲		ML		◆		1.0	
	ICE											
2.0	SANDY SILT TO SILTY SAND WITH GRAVEL (ML)-(SM) -brown -frozen -grindy drilling below 1.8m	<input checked="" type="checkbox"/>	298	●	▲		ML		◆	■	2.0	
3.0		<input checked="" type="checkbox"/>	299	●	▲		SM	●●●●	◆	■	3.0	
4.0												
5.0	END HOLE @ 4.7m Note: culvert installation outlet	<input checked="" type="checkbox"/>	300	●	▲		SM	●●●●	◆	■	5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 4.7 m

COMPLETE: 00/05/15

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1374								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+232 6.5M 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	ORGANIC											0.0
	SILTY SAND TO SILT TO SANDY SILT (SM)-(ML)											
	-grey											
	-frozen											
1.0		<input checked="" type="checkbox"/>	301	●	▲		SM	▨▨▨▨	◆			1.0
2.0		<input checked="" type="checkbox"/>	302	●	▲		ML	▨▨▨▨	◆			2.0
	-brown below 2.2m											
	-frozen (Vx) below 2.2m											
	-tight drilling below 2.2m											
3.0		<input checked="" type="checkbox"/>	303	●	▲		ML	▨▨▨▨	◆			3.0
4.0												4.0
	-grindy drilling below 4.5m											
5.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	304	●	▲		ML	▨▨▨▨	◆	■	◆	5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.7 m						
				REVIEWED BY:		COMPLETE: 00/05/15						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1375								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+315 18.2LT		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
1.0	SANDY SILT TO SILT WITH SAND TO SILT (ML) -frozen (Vx)	<input checked="" type="checkbox"/>	305	●	▲		ML	▨	◆			1.0
2.0	-ice increasing @ 2.0m	<input checked="" type="checkbox"/>	306	●	▲		ML	▨	◆			2.0
3.0		<input checked="" type="checkbox"/>	307	●	▲		ML	▨	◆			3.0
4.0	SANDY SILT WITH GRAVEL (ML) -frozen -no visible ice below 4.0m	<input checked="" type="checkbox"/>	308	●	▲		ML	▨	◆	■		4.0
5.0	END HOLE @ 4.7m Note: Anticipate culvert in area No moving H2O - ponding (surface)											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 4.7 m						
				REVIEWED BY:		COMPLETE: 00/05/15						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1376								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+319 16.3M RLT		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 -frozen SILT (ML) -frozen										0.0	
1.0		<input checked="" type="checkbox"/>	309	●		▲	ML		◆		1.0	
2.0	SILT & ICE (ML)	<input checked="" type="checkbox"/>	310	●		▲	ML		◆		2.0	
3.0		<input checked="" type="checkbox"/>	311		●	▲	ML		◆		3.0	
4.0	SANDY SILT (ML) -brown -frozen -grindy drilling	<input checked="" type="checkbox"/>	312	●		▲	ML		◆	■	4.0	
4.0	END HOLE @ 4.0m Note: culvert installation outlet											
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: G.C. REVIEWED BY: Fig. No:				COMPLETION DEPTH: 4.0 m COMPLETE: 00/05/16 Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1377								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+452 0.8M 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			20	40	60	
0.0	ORGANIC SILTY GRAVEL WITH SAND (GM) -brown -frozen -grindy drilling below .3m											0.0
1.0			313	●	▲		GM	▲▲▲	◆	■		1.0
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -brown -moist -easier drilling											2.0
3.0			314	●	▲		SM	○○○○	◆	■		3.0
4.0												4.0
5.0	END HOLE @ 4.7m Note: water ponding 1748+375 LHS											5.0
6.0			315	●	▲		GM	▲▲▲	◆	■		6.0

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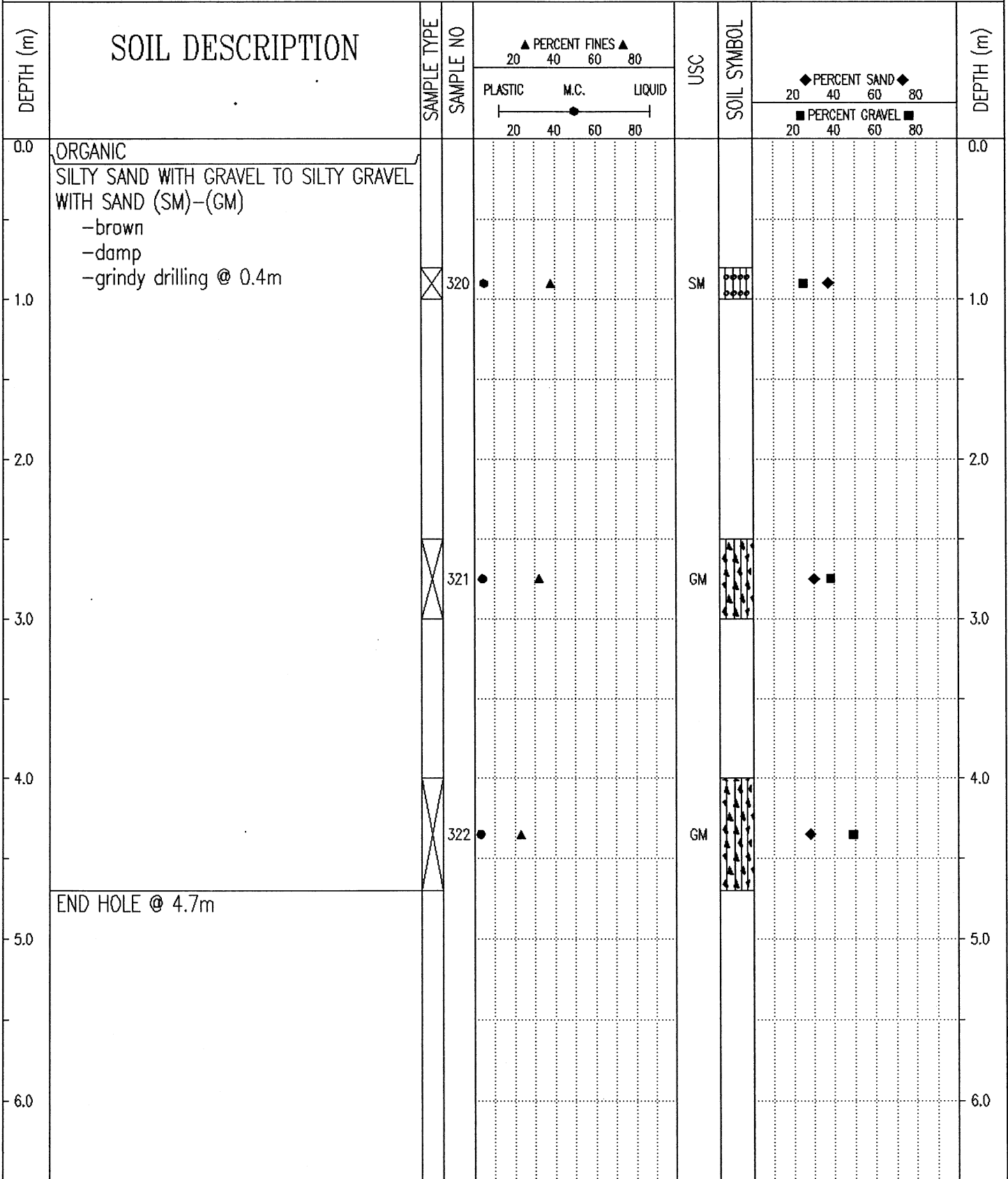
COMPLETION DEPTH: 4.7 m

COMPLETE: 00/05/16

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1378				
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361				
B-40L		LOCATION: 1748+552 1.8M 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	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC							0.0
	SILT (ML) -brown -frozen							
1.0		<input checked="" type="checkbox"/>	316	●	▲	ML	◆	1.0
	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (SM)-(GM)-(SM) -brown -frozen -grindy drilling							
2.0		<input checked="" type="checkbox"/>	317	●	▲	SM	◆	2.0
3.0		<input checked="" type="checkbox"/>	318	●	▲	GM	◆	3.0
	-smooth drilling below 3.0m							
4.0								4.0
5.0		<input checked="" type="checkbox"/>	319	●	▲	SM	◆	5.0
	END HOLE @ 4.7m							
6.0								6.0
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				REVIEWED BY:		COMPLETE: 00/05/16		
				Fig. No:		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT	SHAKWAK SEG 11	TEST HOLE NO: 544-1379
ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1748+664 6.4M 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		



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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1380								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+765 0.25M 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 SILTY GRAVEL WITH SAND (GM) -brown -damp										0.0	
1.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -brown -damp -rough drilling	<input checked="" type="checkbox"/>	323	●▲			GM	▲▲▲	◆	■	1.0	
2.0		<input checked="" type="checkbox"/>	324	●▲			GP-GM	▲▲▲	◆	■	2.0	
3.0		<input checked="" type="checkbox"/>	325	●▲			GP-GM	▲▲▲	◆	■	3.0	
4.0		<input checked="" type="checkbox"/>	326	●▲			GP-GM	▲▲▲	◆	■	4.0	
5.0	END HOLE @ 4.7m										5.0	
6.0											6.0	

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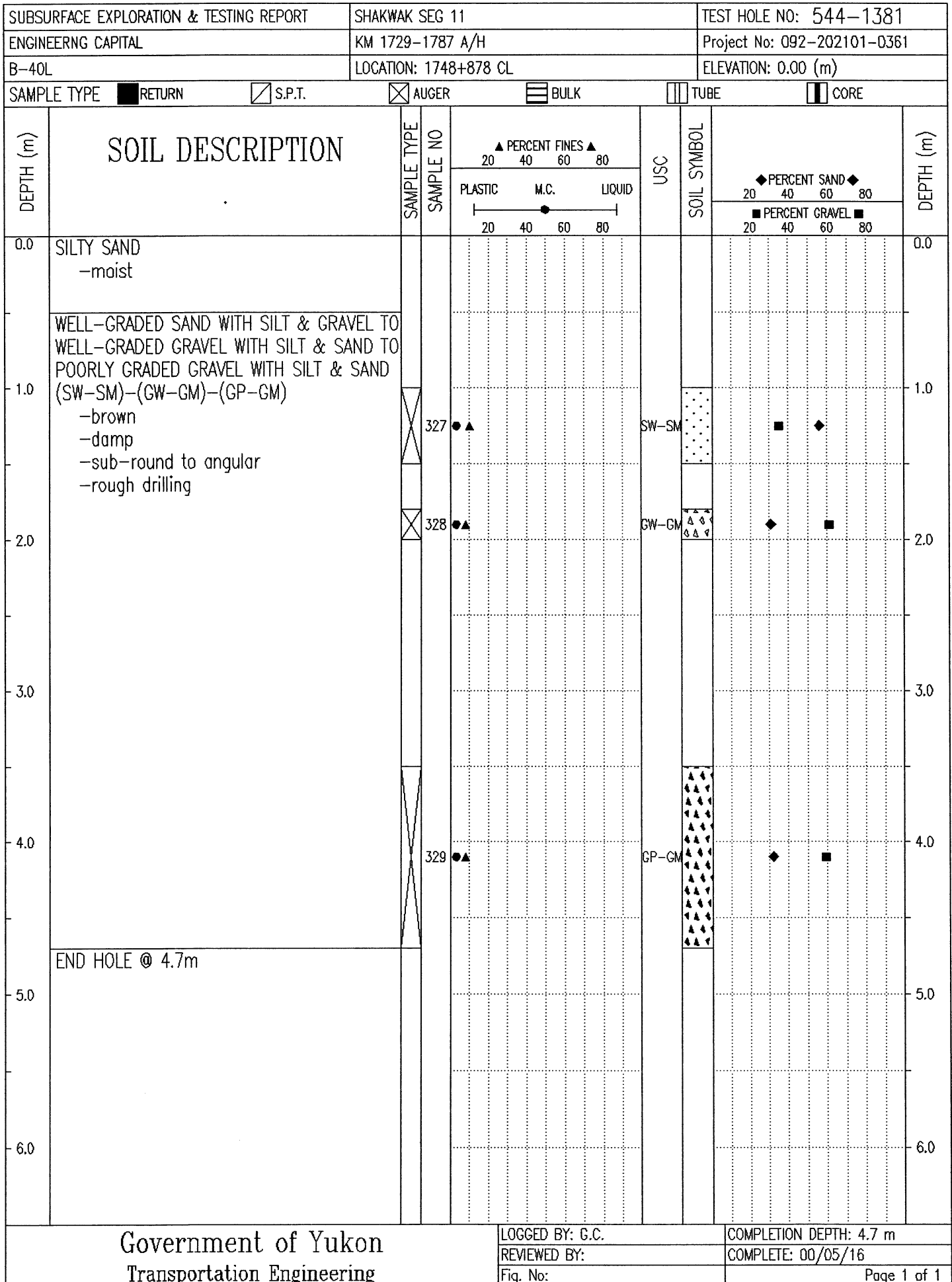
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1382								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+928 12.5M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> 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	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -dark grey -moist -grindy drilling											0.0
1.0												1.0
2.0												2.0
3.0	-easier drilling below 3.0m											3.0
4.0												4.0
5.0	END HOLE @ 4.7m											5.0
6.0												6.0
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				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1383								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1748+926 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												
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	POORLY GRADED GRAVEL WITH SAND (GP) -dark grey -moist											0.0
1.0												1.0
2.0												2.0
3.0	SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL (GM)-(SM) -brown -dark grey -saturated -easier drilling											3.0
4.0												4.0
5.0	END HOLE @ 4.7m											5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: W.E. REVIEWED BY:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/16						
				Fig. No:				Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1384											
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361											
B-40L		LOCATION: 1749+030 4M 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	60	80	20	40	
0.0	ORGANIC -trace ash -smooth drilling													0.0	
1.0	SILT (ML) -reddish grey / brown -damp	<input checked="" type="checkbox"/>	335				ML							1.0	
2.0	SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (SM)-(GM) -slightly reddish brown -damp -grindy drilling	<input checked="" type="checkbox"/>	336				SM							2.0	
3.0	-olive brown below 3.0m	<input checked="" type="checkbox"/>	337				SM							3.0	
4.0		<input checked="" type="checkbox"/>	338				GM							4.0	
5.0	END HOLE @ 4.7m													5.0	
6.0														6.0	

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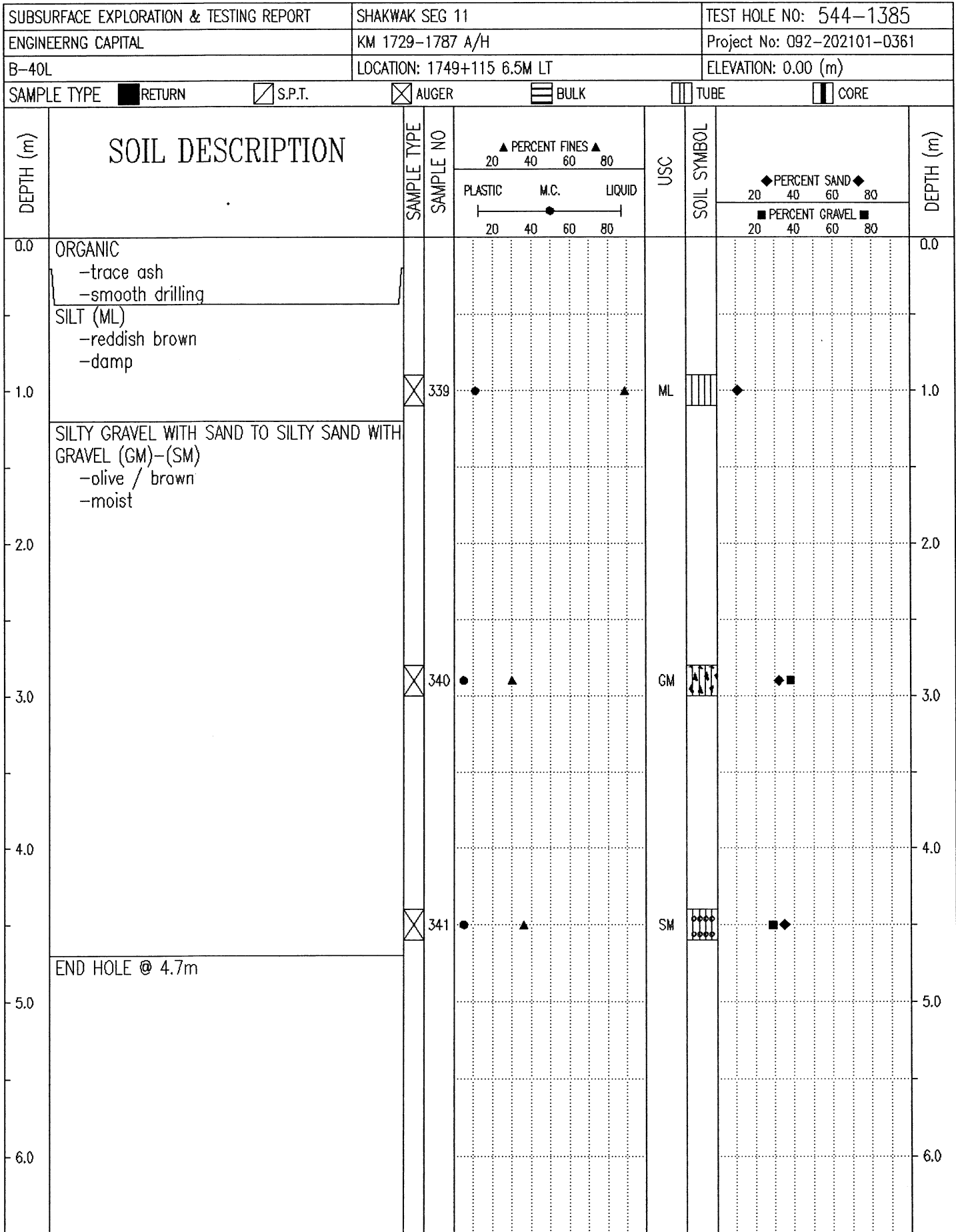
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1386								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1749+246 18.9M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		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 WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -dark grey -damp -grindy drilling	☒	342	●	▲		SW-SM	■	◆		0.0	
1.0	SANDY SILT (ML) -some black organic -dark brown -moist -smooth drilling	☒	343		●	▲	ML		◆		1.0	
2.0	SILTY SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (SM)-(GP-GM) -dark brownish grey -moist -grindy drilling	☒	344	●	▲		SM		◆	■	2.0	
3.0		☒	345	●	▲		SM		◆	■	3.0	
4.0	-grey below 4.0m -damp below 4.0m -some contamination from above										4.0	
5.0	END HOLE @ 4.7m	☒	346	●	▲		GP-GM		◆	■	5.0	
6.0											6.0	

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COMPLETION DEPTH: 4.7 m

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1387								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1749+264 18M 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	SILTY SAND (SM) -dark brownish grey -wet -smooth drilling	⊗	347	▲	●	▲	SM	◆				0.0
1.0	SILTY GRAVEL WITH SAND TO SILTY SAND WITH GRAVEL TO SILTY GRAVEL WITH SAND (GM)-(SM)-(GM) -olive -moist -grindy drilling	⊗	348	●	▲		GM	◆	■		1.0	
2.0											2.0	
3.0		⊗	349	●	▲		SM	◆	■		3.0	
4.0											4.0	
5.0	END HOLE @ 4.7m Note: test hole in creek bottom	⊗	350	●	▲		GM	◆	■		5.0	
6.0											6.0	

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COMPLETION DEPTH: 4.7 m
COMPLETE: 00/05/16

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1388								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1749+353 0.2M 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	SAND, SILT & ORGANIC -recent outwash											0.0
1.0												1.0
2.0	POORLY GRADED GRAVEL WITH SAND TO SILTY GRAVEL WITH SAND (GM) -dark brownish grey -moist -grindy drilling	<input checked="" type="checkbox"/>	351	● ▲			GP-GM	▲ ▲ ▲ ▲	◆	■		2.0
3.0												3.0
4.0												4.0
5.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	352	● ▲			GM	▲ ▲ ▲ ▲	◆	■		5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: W.E. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/16		Page 1 of 1				

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1389						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1749+449 2.1M 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	SILTY SAND WITH GRAVEL (SM) -dark brownish grey -moist -crushed (old stock pile base) -easy grindy drilling									0.0
1.0			353			SM				1.0
2.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -dark brownish grey -moist -grindier drilling		354			GP-GM				2.0
3.0	SILTY SAND TO SILTY SAND WITH GRAVEL (SM) -dark brownish grey -moist -smooth drilling -dark brown below 3.0m		355			SM				3.0
4.0										4.0
5.0			356			SM				5.0
6.0	END HOLE @ 4.7m									6.0
Government of Yukon Transportation Engineering				LOGGED BY: W.E. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/16		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1390						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1749+550 7.8M 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	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -dark grey -wet -easy grindy drilling	<input checked="" type="checkbox"/>	357	●▲			SW-SM	■◆	0.0	
1.0	SILTY SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (SM)-(GP) -dark brownish grey -wet -coarser	<input checked="" type="checkbox"/>	358	●▲			SM	■◆	2.0	
2.0										
3.0										
4.0	-moist below 4.0m									
5.0	END HOLE @ 4.7m	<input checked="" type="checkbox"/>	359	●▲			GP-GM	■◆	4.7	
6.0										
Government of Yukon Transportation Engineering				LOGGED BY: W.E. REVIEWED BY: Fig. No:		COMPLETION DEPTH: 4.7 m COMPLETE: 00/05/16		Page 1 of 1		

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1391						
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361						
B-40L		LOCATION: 1749+647 1.3M 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	POORLY GRADED GRAVEL WITH SAND (GP) -dark grey -wet -grindy drilling									0.0
1.0										1.0
2.0										2.0
3.0	SILTY GRAVEL WITH SAND (GM) -dark brownish grey -moist									3.0
4.0										4.0
5.0	END HOLE @ 4.7m									5.0
6.0										6.0
Government of Yukon Transportation Engineering				LOGGED BY: W.E.		COMPLETION DEPTH: 4.7 m				
				REVIEWED BY:		COMPLETE: 00/05/16				
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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1393								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1749+671 18M 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)
				20	40	60			80	20		
				PLASTIC	M.C.	LIQUID						
				20	40	60	80					
				20	40	60	80					
0.0	SANDY GRAVEL -grindy drilling											0.0
1.0	SILT WITH SAND (ML) -with organic -frozen (Nf) -smooth drilling	<input checked="" type="checkbox"/>	365		●	▲		ML		◆		1.0
2.0	ORGANIC & ASH SILTY SAND WITH GRAVEL (SM) -brown -moist -grindier drilling	<input checked="" type="checkbox"/>	366	●	▲			SM	○○○○ ○○○○ ○○○○	■	◆	2.0
3.0	SILTY ORGANIC -wet -smooth drilling											3.0
4.0	SILTY GRAVEL WITH SAND (GM) -brown -moist -hard grindy drilling	<input checked="" type="checkbox"/>	367	●	▲			GM	▲▲▲	■	◆	4.0
5.0	END HOLE @ 4.7m											5.0
6.0												6.0

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Fig. No:

COMPLETION DEPTH: 4.7 m

COMPLETE: 00/05/17

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1392								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1749+676 10M 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	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -dark brownish grey -wet -grindy drilling											0.0
1.0	ORGANIC, WOOD, SILT -frozen (Vx) -smooth drilling											1.0
2.0			362	●			SW-SM	◆		■		
3.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -dark brownish grey -moist -grindy drilling ORGANIC -smooth drilling		363	▲			SW-SM			◆		
4.0	SILTY SAND WITH GRAVEL (SM) -brown -moist -grindy hard drilling											
5.0	END HOLE @ 4.7m		364	●	▲		SM			■	◆	
6.0												6.0

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COMPLETION DEPTH: 4.7 m

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COMPLETE: 00/05/17

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SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1394								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1749+789 4.8M 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			20	40	60	
0.0	ORGANIC SANDY GRAVEL -dark brownish grey -moist -grindy drilling -last sample # 368 -frozen (Nf) below 0.8m		368									0.0
2.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -dark brownish grey -damp -smoother drilling		369				SW-SM					2.0
3.0	ASH SANDY SILT TO SILTY SAND WITH GRAVEL (ML)-(SM) -dark brown -moist -smooth easy drilling		370				ML					3.0
4.7	END HOLE @ 4.7m		371				SM					4.7

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Fig. No:

COMPLETION DEPTH: 4.7 m
COMPLETE: 00/05/17

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1395								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1749+892 32.6M 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 -smooth drilling											0.0
1.0	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM) -brownish dark grey -moist -grindy drilling											1.0
2.0	POORLY GRADED GRAVEL WITH SAND (GP) -dark grey -damp	☒	372	●▲			SW-SM	◆	■			2.0
3.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -dark brownish grey -moist -hard slow tough drilling below 3.2m	☒	373	▲			GP	◆	■			3.0
4.0		☒	374	●▲			GP-GM	◆	■			4.0
5.0	END HOLE @ 4.7m	☒	375	●▲			GP-GM	◆	■			5.0
6.0												6.0

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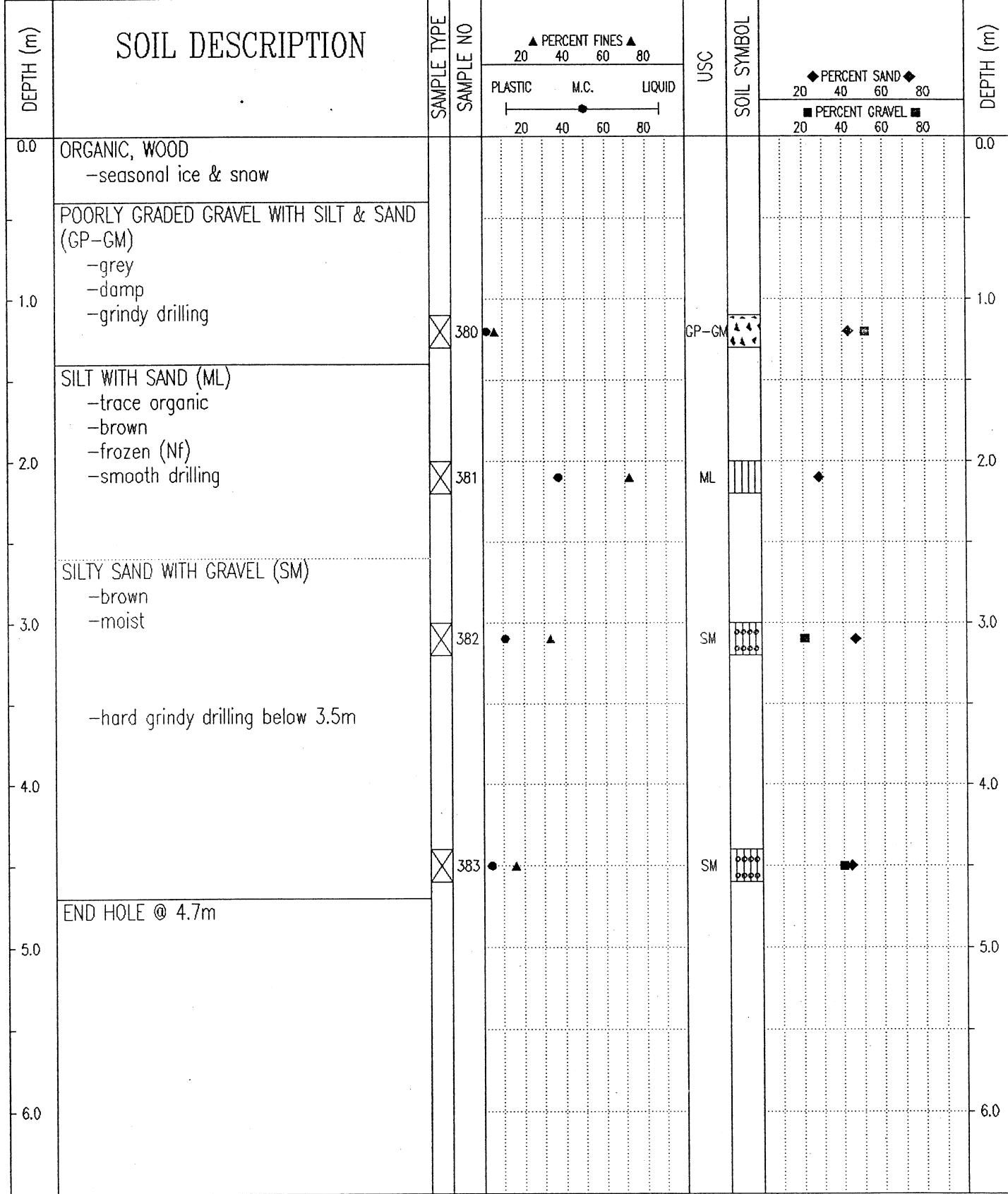
COMPLETION DEPTH: 4.7 m
COMPLETE: 00/05/17

SUBSURFACE EXPLORATION & TESTING REPORT		SHAKWAK SEG 11		TEST HOLE NO: 544-1396								
ENGINEERING CAPITAL		KM 1729-1787 A/H		Project No: 092-202101-0361								
B-40L		LOCATION: 1750+002 56.6M 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 -smooth drilling											0.0
0.0 - 1.0	POORLY GRADED GRAVEL WITH SAND (GP) -grey -damp -grindy drilling											
1.0 - 2.0	SILT WITH SAND (ML) -trace organic & ash -brown -frozen (Nf) -smooth drilling											
2.0 - 3.0	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM) -slightly brownish grey -moist -grindy drilling											
3.0 - 4.7	SILTY SAND WITH GRAVEL (SM) -brown -moist											
4.7	END HOLE @ 4.7m											
4.0			376				GP					
2.0			377				ML					
3.0			378				GP-GM					
4.7			379				SM					

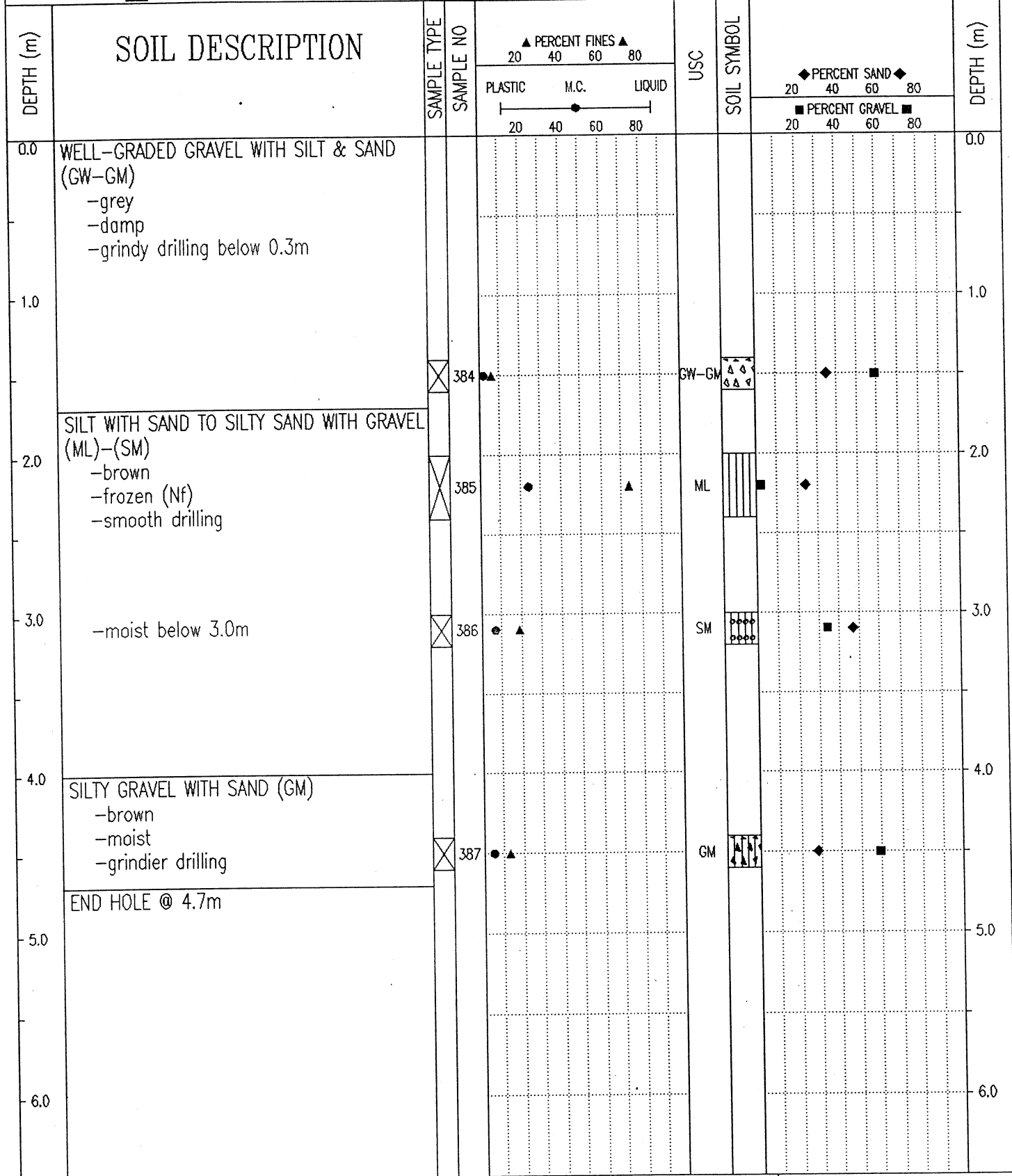
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



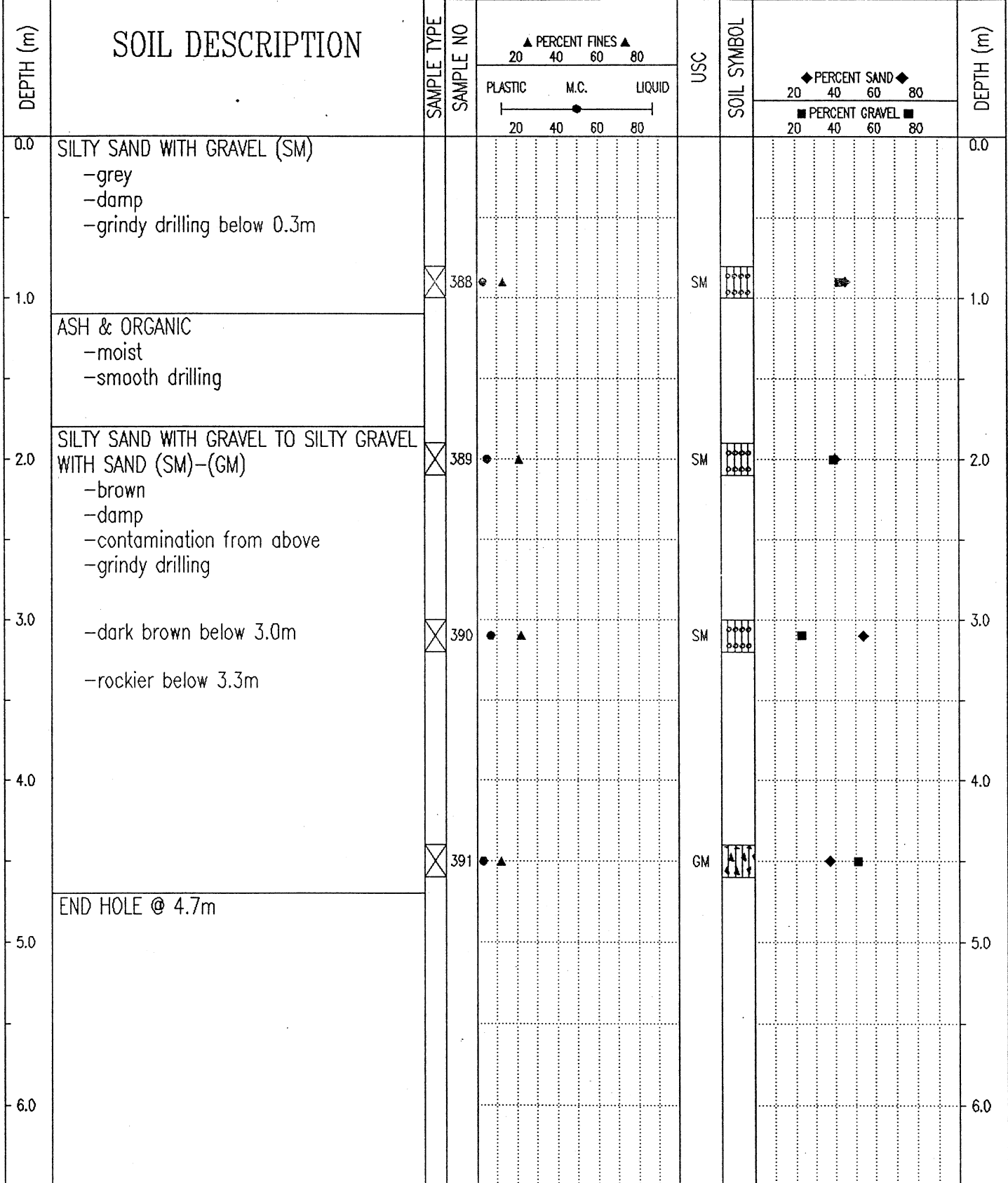
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ENGINEERING CAPITAL	KM 1729-1787 A/H	Project No: 092-202101-0361
B-40L	LOCATION: 1750+200 15M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



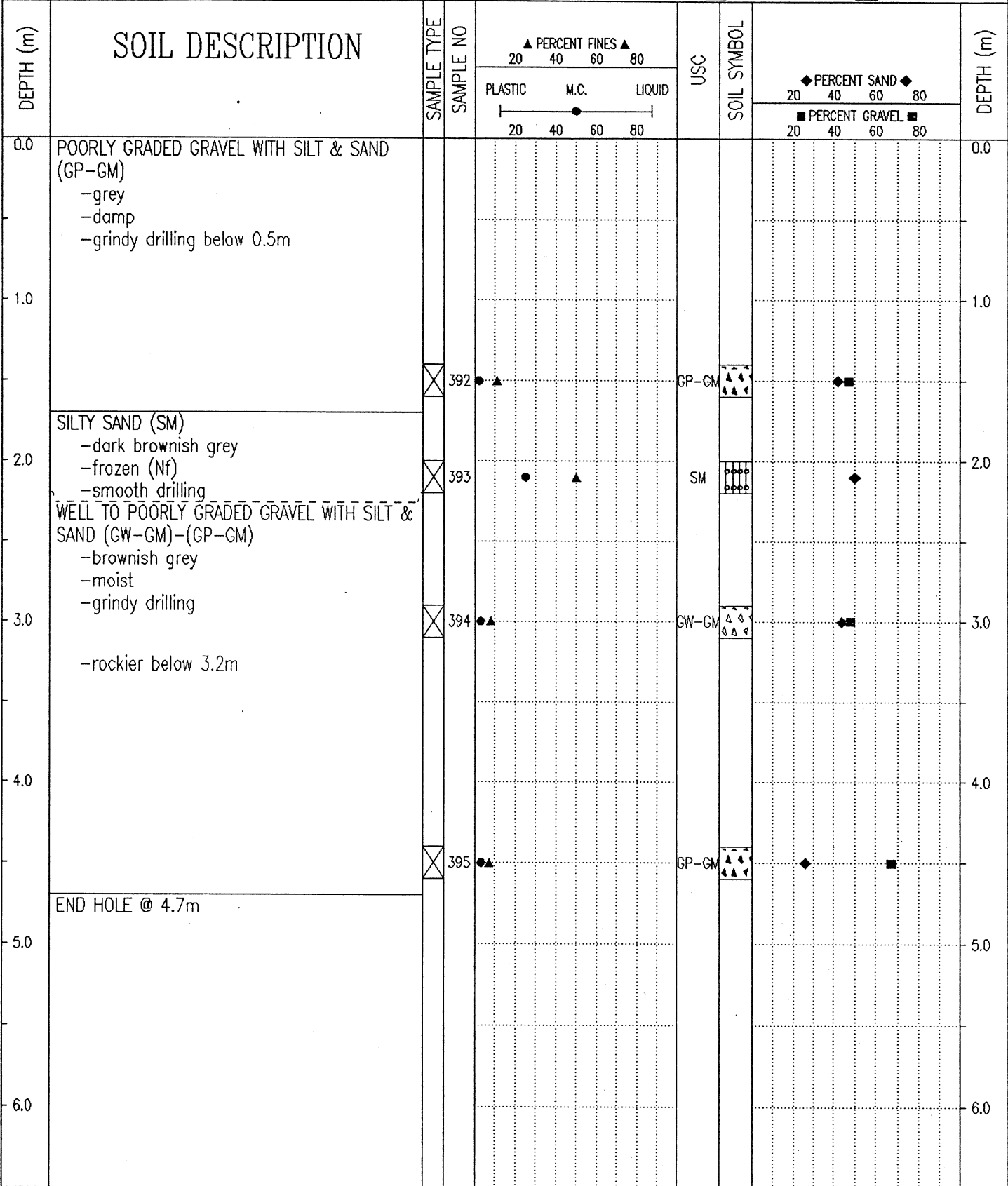
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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



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