

HIGHWAY CONSTRUCTION  
km 1844.2 to km 1852.1  
ALASKA HIGHWAY, Y.T.

VOLUME 1  
CENTRELINE TESTING

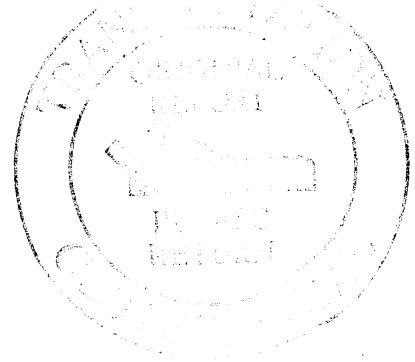
This Data Package prepared for project viewing:

March, 1995

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GR-01-091

GEOTECHNICAL INVESTIGATION  
HIGHWAY CONSTRUCTION  
km 1844.2 to km 1852.1, ALASKA HIGHWAY, Y.T.  
CENTRELINE TESTING



CONTENTS

INTRODUCTION

Investigation notes, classification methods and legends.

VOLUME 1

CENTRELINE TESTING

Subsurface exploration and testing report sheets are provided. The reports for the centreline holes are arranged according to project location, starting at km 1844+375 and increasing to km 1852+124.

**Auger Testing**

1982*	TEST HOLES 33 to 37	shown with prefix 573-
1993	TEST HOLES 245 to 297	shown with prefix 261-
	TEST HOLES 298 to 321	shown with prefix 262-
	TEST HOLES 322 to 326	shown with prefix 263-
1994	TEST HOLES 40 to 64	shown with prefix 304-
	TEST HOLES 65 to 75	shown with prefix 305-

\* tested prior to Koidern #1 approach reconstruction.

VOLUME 2

GRANULAR TESTING - KM 1847 RHS

Subsurface exploration and testing report sheets, location plans, photographs and a production history are provided.

**Backhoe Testing**

1993	TEST HOLES 77 and 79	shown with prefix 260-
	TEST HOLES 46 to 50, 56, and 59 to 61	shown with prefix 275-
1994	TEST HOLES 62 to 71, 75 to 77, and 85 to 86	shown with prefix 297-
	TEST HOLES 87 to 89	shown with prefix 298-
	TEST HOLES 100 to 120	shown with prefix 345-

**Auger Testing**

1994	TEST HOLES 01 to 04	shown with prefix 305-
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GEOTECHNICAL INVESTIGATION  
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## **INTRODUCTION**

GEOTECHNICAL INVESTIGATION  
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km 1844.2 to km 1852.1, ALASKA HIGHWAY, Y.T.  
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GEOTECHNICAL INVESTIGATION DATA

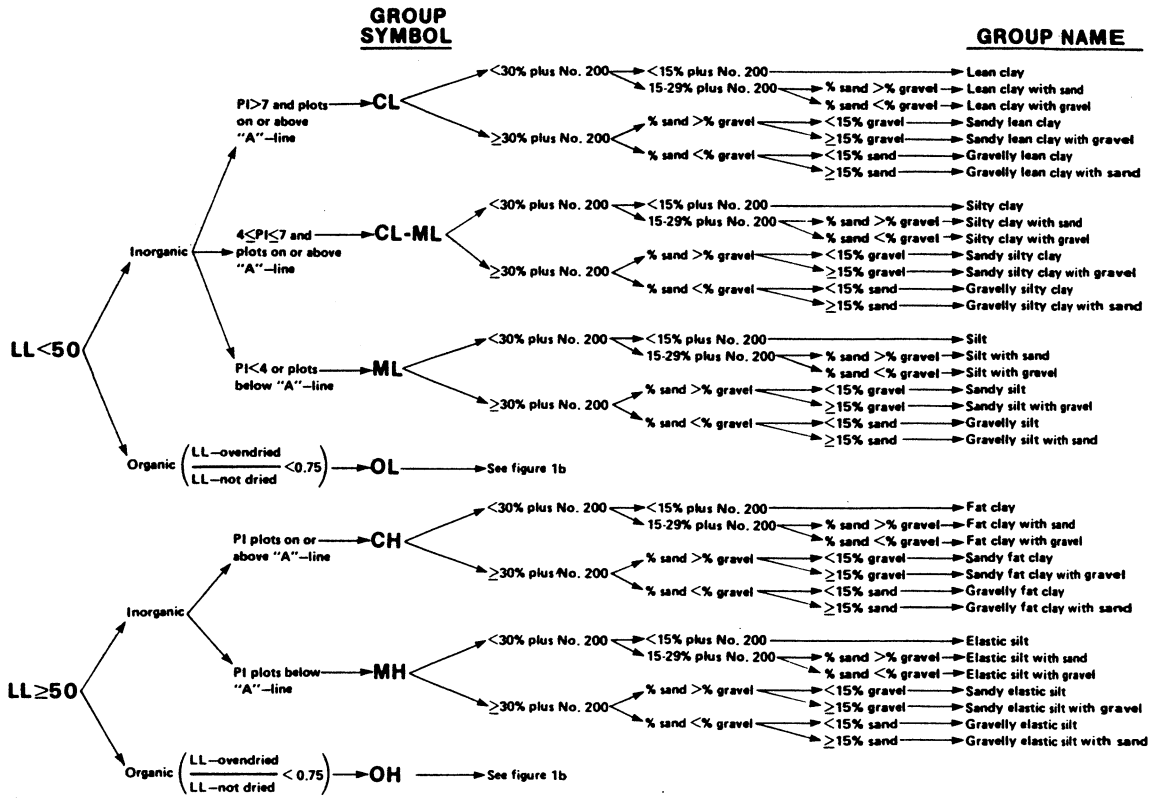
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

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 or excavation equipment used.

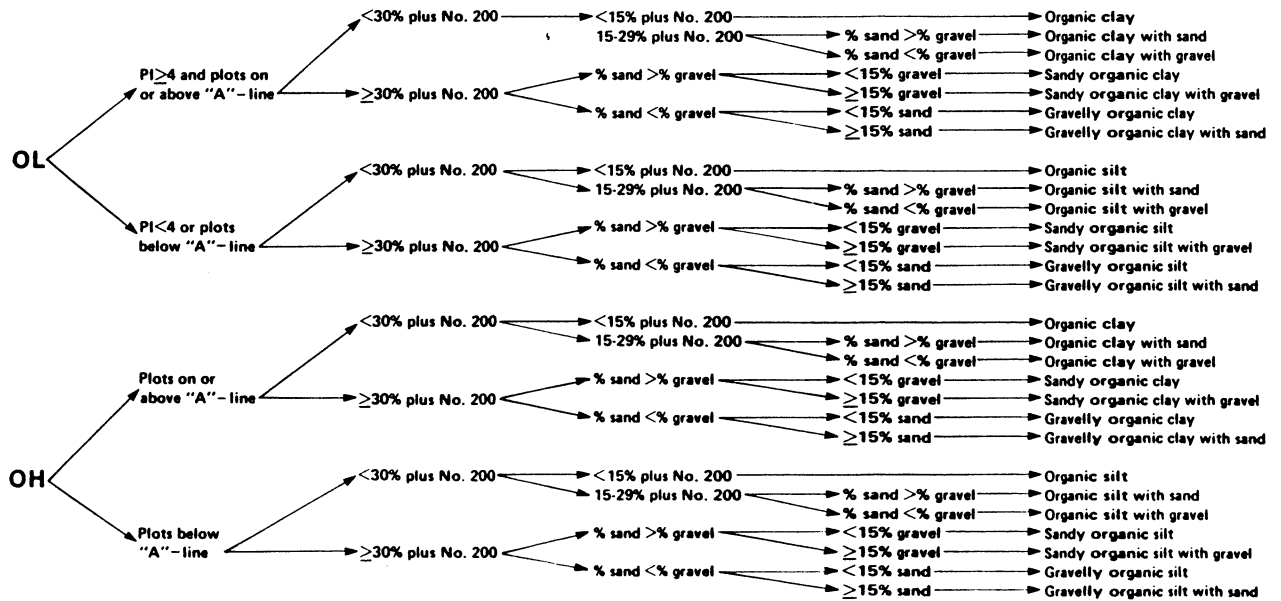
These descriptions are not intended to be conclusive as to the nature of any material encountered, or to conditions between or around the test borings/pits.

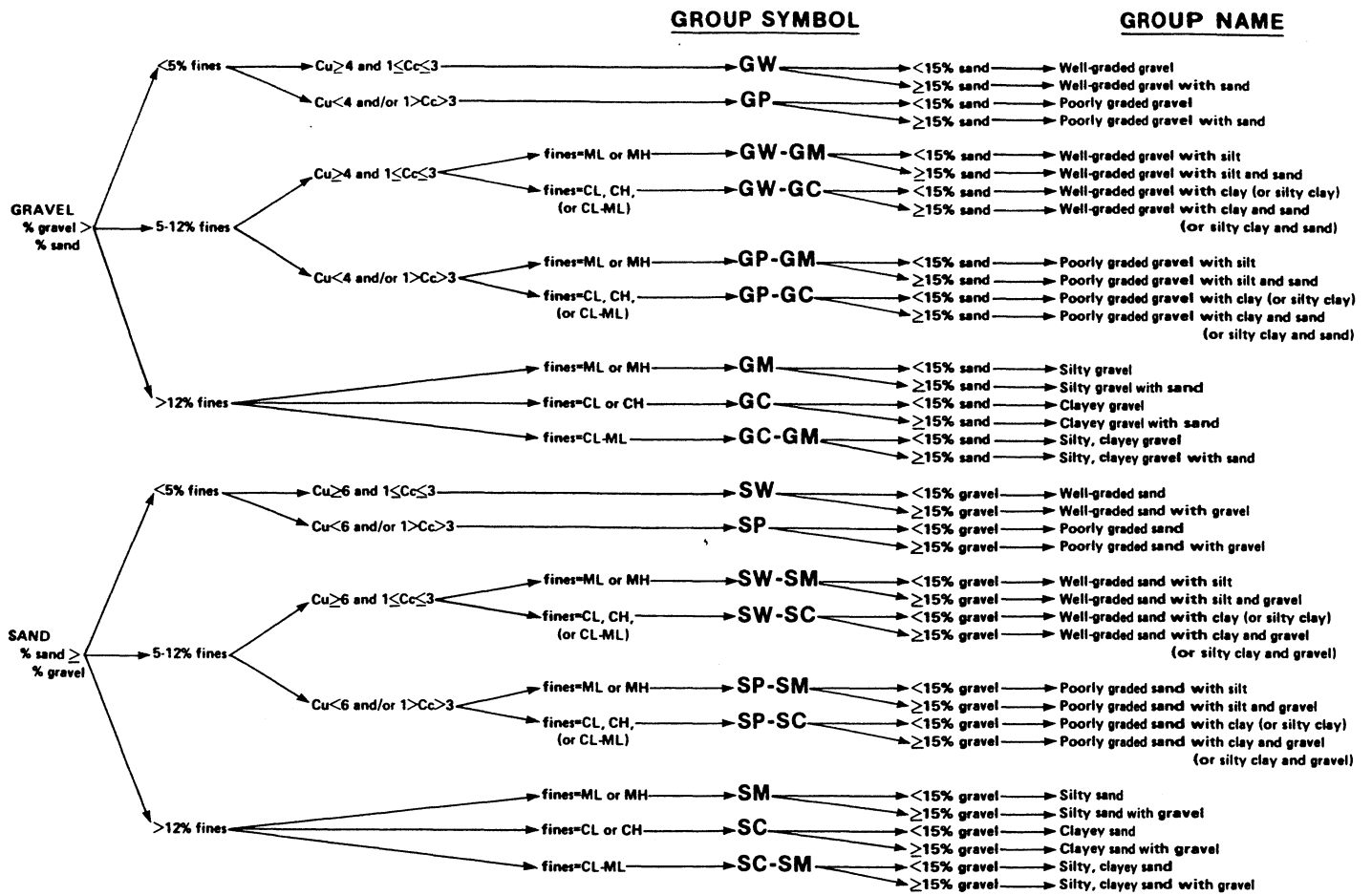
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions for construction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



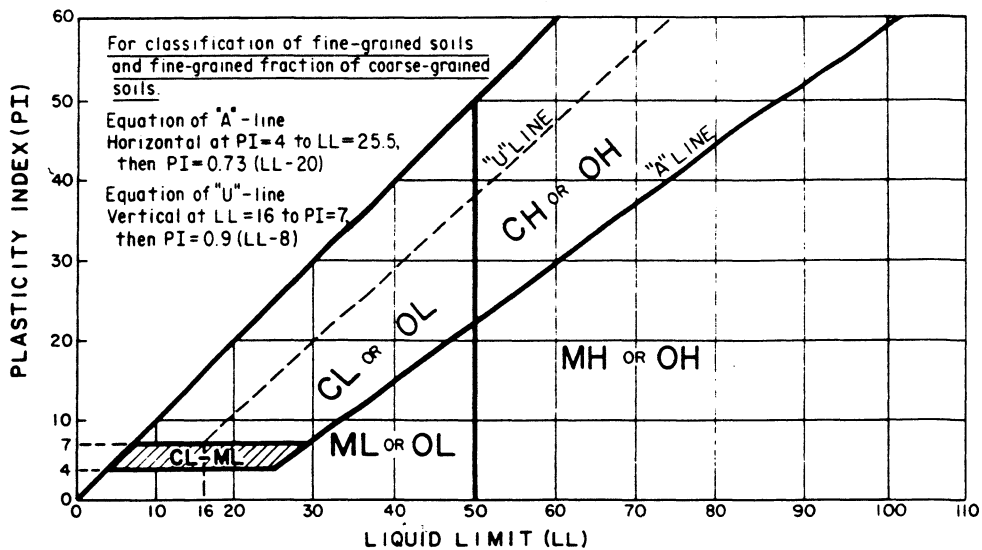
**GROUP SYMBOL**

**GROUP NAME**





Flow chart for classifying coarse-grained soil.



Plasticity chart.

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

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

*Soil classification chart*

# UNIFIED SOIL CLASSIFICATION†

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES	CLASSIFICATION CRITERIA			
<b>COARSE-GRAINED SOILS</b> More than 50% retained on No. 200 sieve*	<b>GRAVELS</b> 50% or more of coarse fraction retained on No. 4 sieve	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	Classification on basis of percentage of fines GW, GP, SW, SP More than 12% pass No. 200 sieve GM, GC, SM, SC Borderline classification requiring use of dual symbols	$C_u = D_{60}/D_{10}$ Greater than 4 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3		
		GP	Poorly-graded gravels and gravel-sand mixtures, little or no fines		Not meeting both criteria for GW		
		GM	Silty gravels, gravel-sand-silt mixtures		Atterberg limits plot below 'A' line or plasticity index less than 4	Atterberg limits plotting in hatched area are borderline classifications requiring use of dual symbols	
		GC	Clayey gravels, gravel-sand clay mixtures		Atterberg limits plot above 'A' line and plasticity index greater than 7		
	<b>SANDS</b> More than 50% of coarse fraction passes No. 4 sieve	<b>CLEAN GRAVELS</b>	SW	Well-graded sands and gravelly sands, little or no fines	Classification on basis of percentage of fines GW, GP, SW, SP More than 5% pass No. 200 sieve GM, GC, SM, SC 5% to 12% pass No. 200 sieve Borderline classification requiring use of dual symbols	$C_u = D_{60}/D_{10}$ Greater than 6 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3	
			SP	Poorly-graded sands and gravelly sands, little or no fines		Not meeting both criteria for SW	
		<b>SANDS WITH FINES</b>	SM	Silty sands, sand-silt mixtures		Atterberg limits plot below 'A' line or plasticity index less than 4	Atterberg limits plotting in hatched area are borderline classifications requiring use of dual symbols
			SC	Clayey sands, sand-clay mixtures		Atterberg limits plot above 'A' line and plasticity index greater than 7	
<b>FINE-GRAINED SOILS</b> 50% or more passes No. 200 sieve*	<b>SILTS AND CLAYS</b> Liquid limit 50% or less	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	<b>PLASTICITY CHART</b> For classification of fine-grained soils and fine fraction of coarse-grained soils Atterberg limits plotting in hatched area are borderline classifications requiring use of dual symbols Equation of 'A' line: $PI = 0.73(LL - 20)$			
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays				
		OL	Organic silts and organic silty clays of low plasticity				
	<b>SILTS AND CLAYS</b> Liquid limit greater than 50%	MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts				
		CH	Inorganic clay of high plasticity, fat clays				
		OH	Organic clays of medium to high plasticity				
<b>HIGHLY ORGANIC SOILS</b>		PT	Peat, muck and other highly organic soils	*Based on the material passing the 3 in. (75 mm) sieve †ASTM Designation D 2487, for identification procedure see D 2488			

## GROUND ICE DESCRIPTION

### ICE NOT VISIBLE

GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	
N	Nf	Poorly-bonded or friable	
	Nbn	No excess ice, well-bonded	
	Nbe	Excess ice, well-bonded	

### VISIBLE ICE LESS THAN 50% BY VOLUME

GROUP SYMBOLS	SYMBOLS	SUBGROUP DESCRIPTION	
V	Vx	Individual ice crystals or inclusions	
	Vc	Ice coatings on particles	
	Vr	Random or irregularly oriented ice formations	
	Vs	Stratified or distinctly oriented ice formations	

### VISIBLE ICE GREATER THAN 50% BY VOLUME

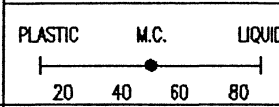
ICE	ICE + Soil Type	Ice with soil inclusions	
	ICE	Ice without soil inclusions (greater than 25 mm (1 in.) thick)	

**NOTE:**

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

**LEGEND**

Soil Ice

		BOUNDARY LINES ON DRILL LOGS			TEST HOLE NO: 3			
ENGINEERING-CAPITAL					Project No:			
					ELEVATION: 0.00 (m)			
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC      M.C.      LIQUID 	USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (m)
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								4.0
5.0								5.0
6.0								6.0

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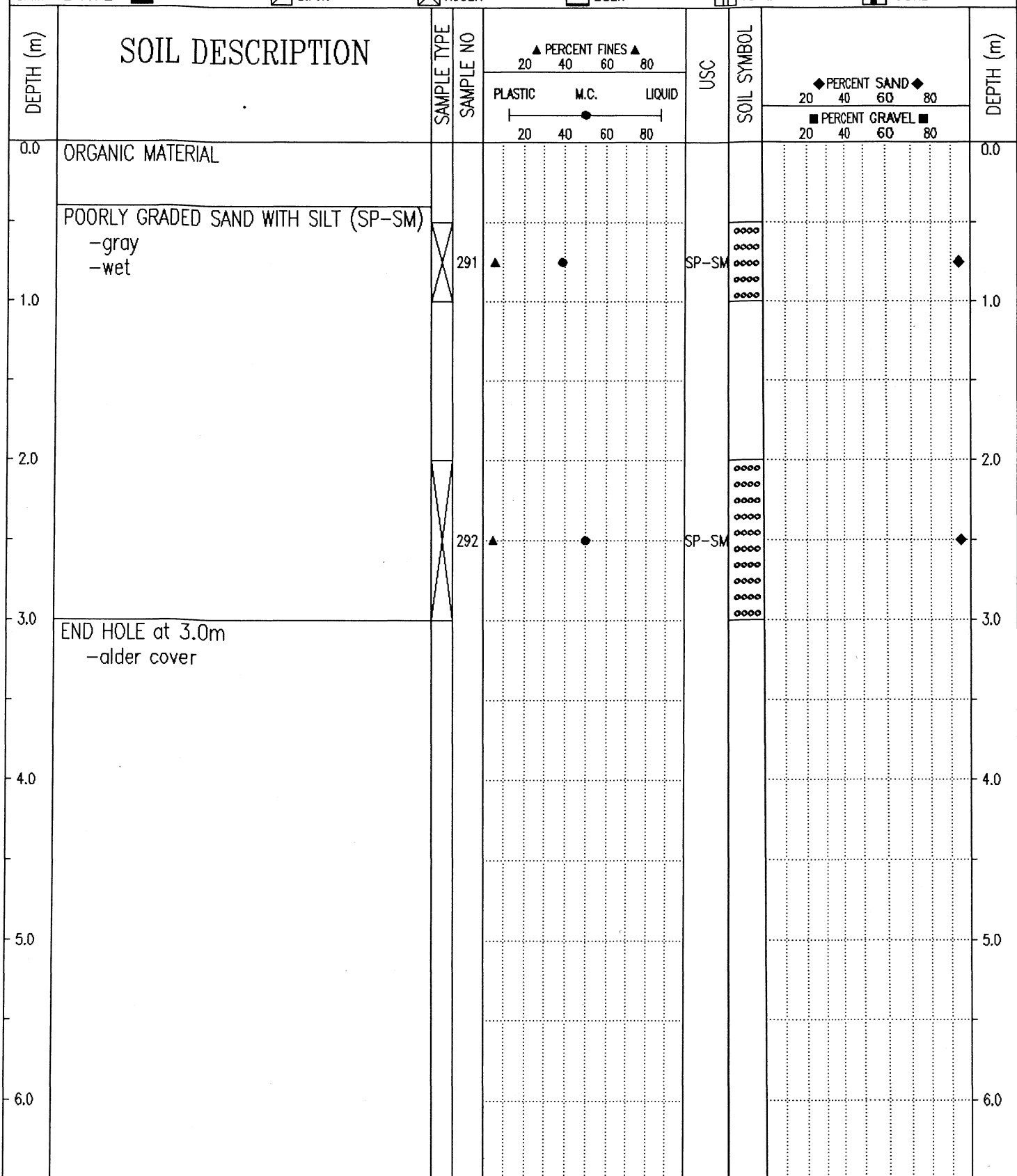
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COMPLETION DEPTH: 6.0 m  
COMPLETE: / /

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HIGHWAY CONSTRUCTION  
km 1844.2 to km 1852.1, ALASKA HIGHWAY, Y.T.  
CENTRELINE TESTING

## **CENTRELINE TESTING**

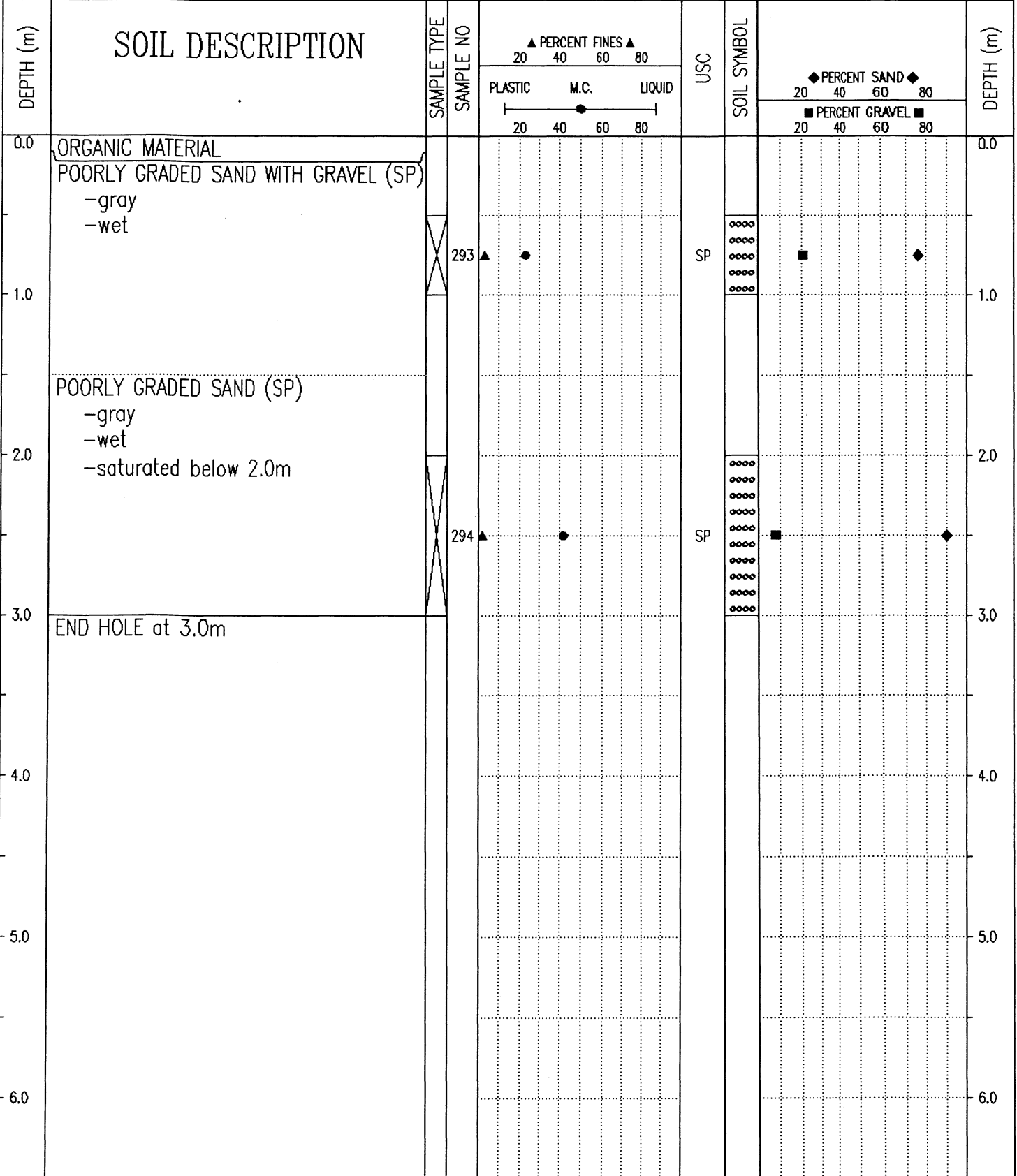
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SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1844+375 o/s 15m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



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	REVIEWED BY:	COMPLETE: 93/10/04
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-256
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1844+510 o/s 10m Lt.	ELEVATION: 0.00 (m)

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

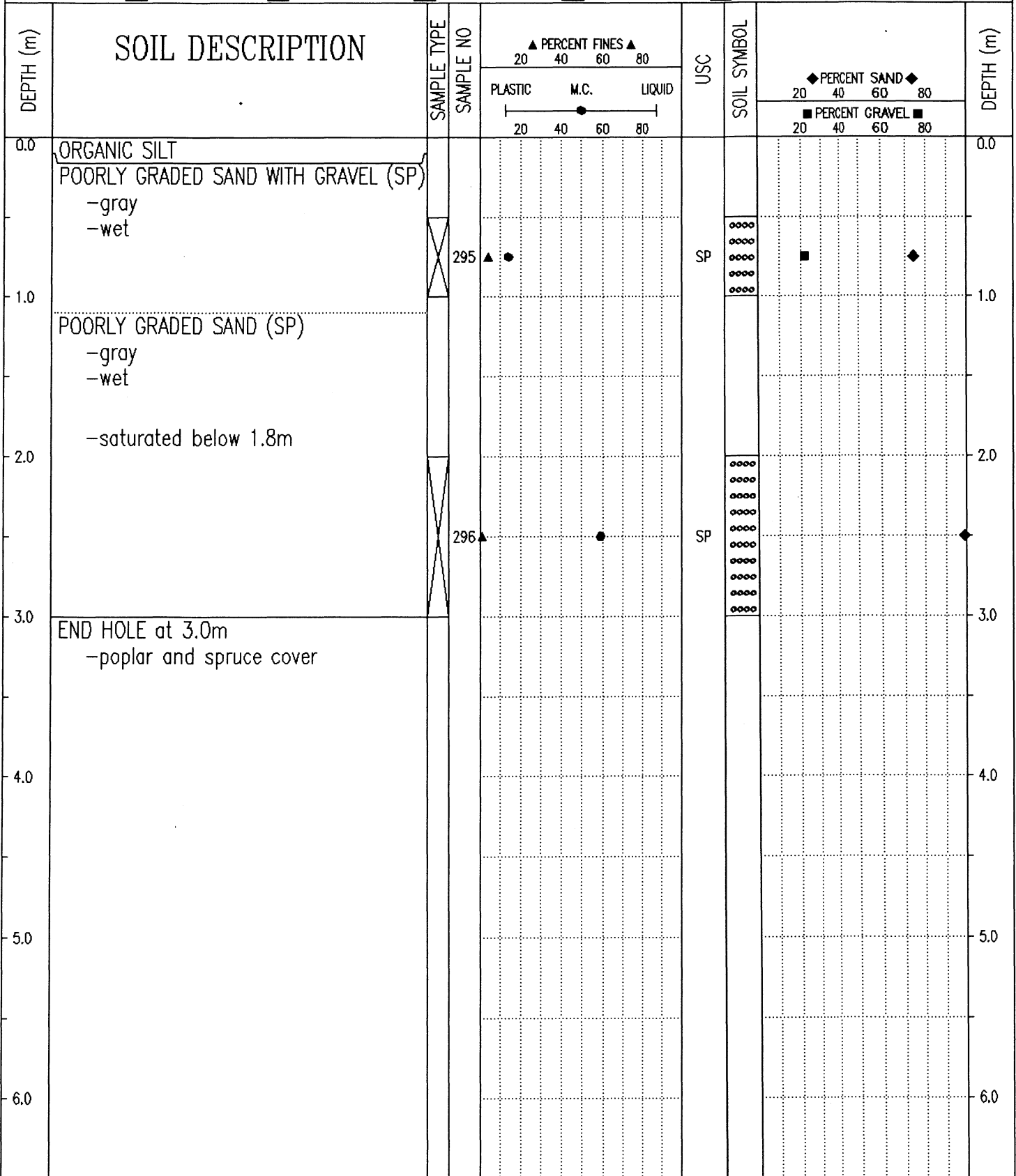


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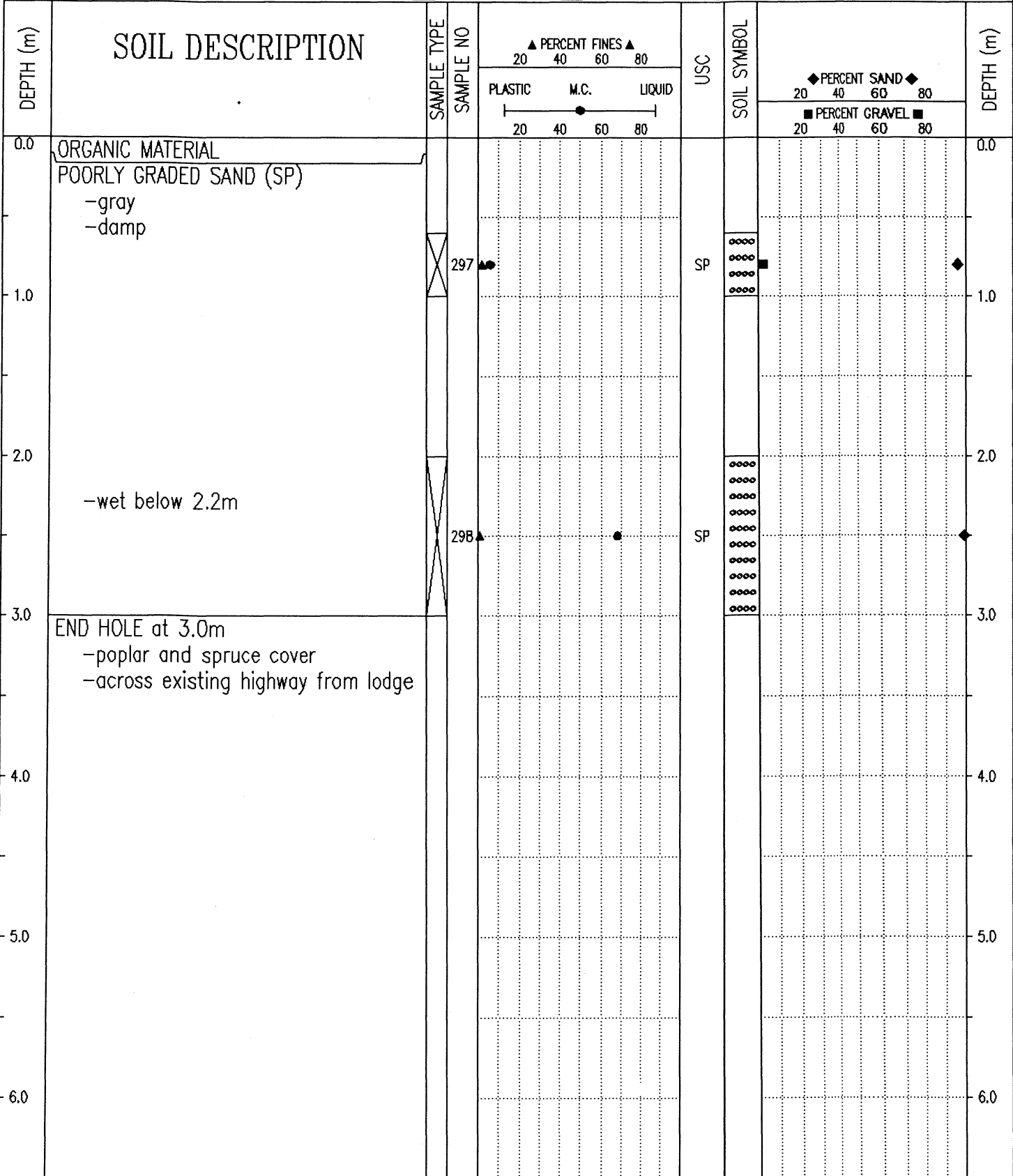
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COMPLETE: 93/10/04

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-257
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1844+600 o/s 10m 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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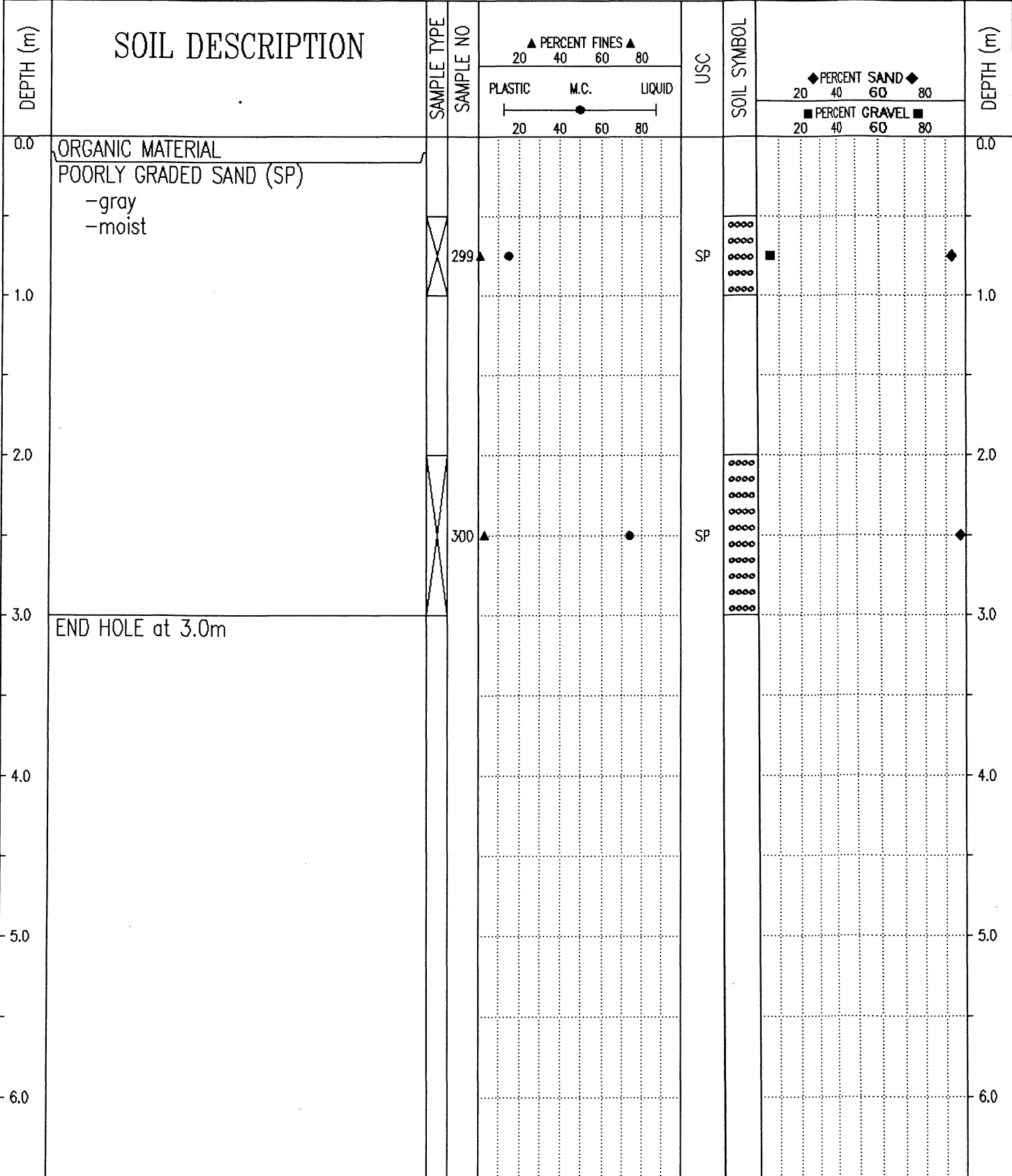
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SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1844+700 o/s 10m Lt.	ELEVATION: 0.00 (m)
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	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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	REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-259
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1844+800 o/s 10m Lt.	ELEVATION: 0.00 (m)

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

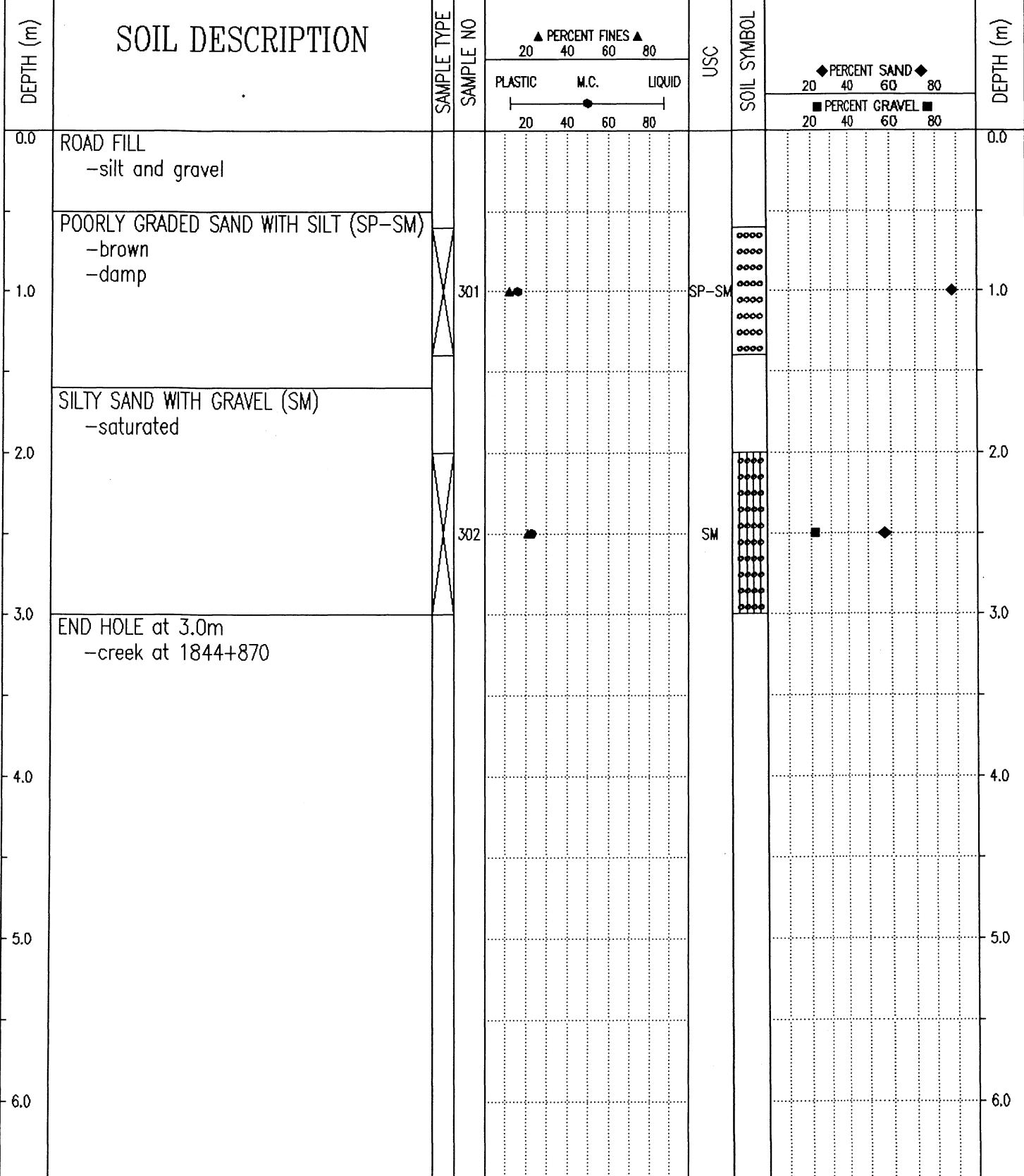


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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-260
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1844+900 o/s 10m Lt.	ELEVATION: 0.00 (m)

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



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COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/04

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SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 305-75								
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311								
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL										0.0	
	SILTY SAND WITH GRAVEL (SM) -dark brown -moist -organic											
1.0		☒	252				SM				1.0	
	SILT WITH SAND (ML) -dark gray -wet -some organics											
2.0		☒	253				ML				2.0	
	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)											
3.0		☒	254				SP-SM				3.0	
	ASH AND SAND											
4.0												
5.0	END HOLE at 5.0m										5.0	
6.0											6.0	

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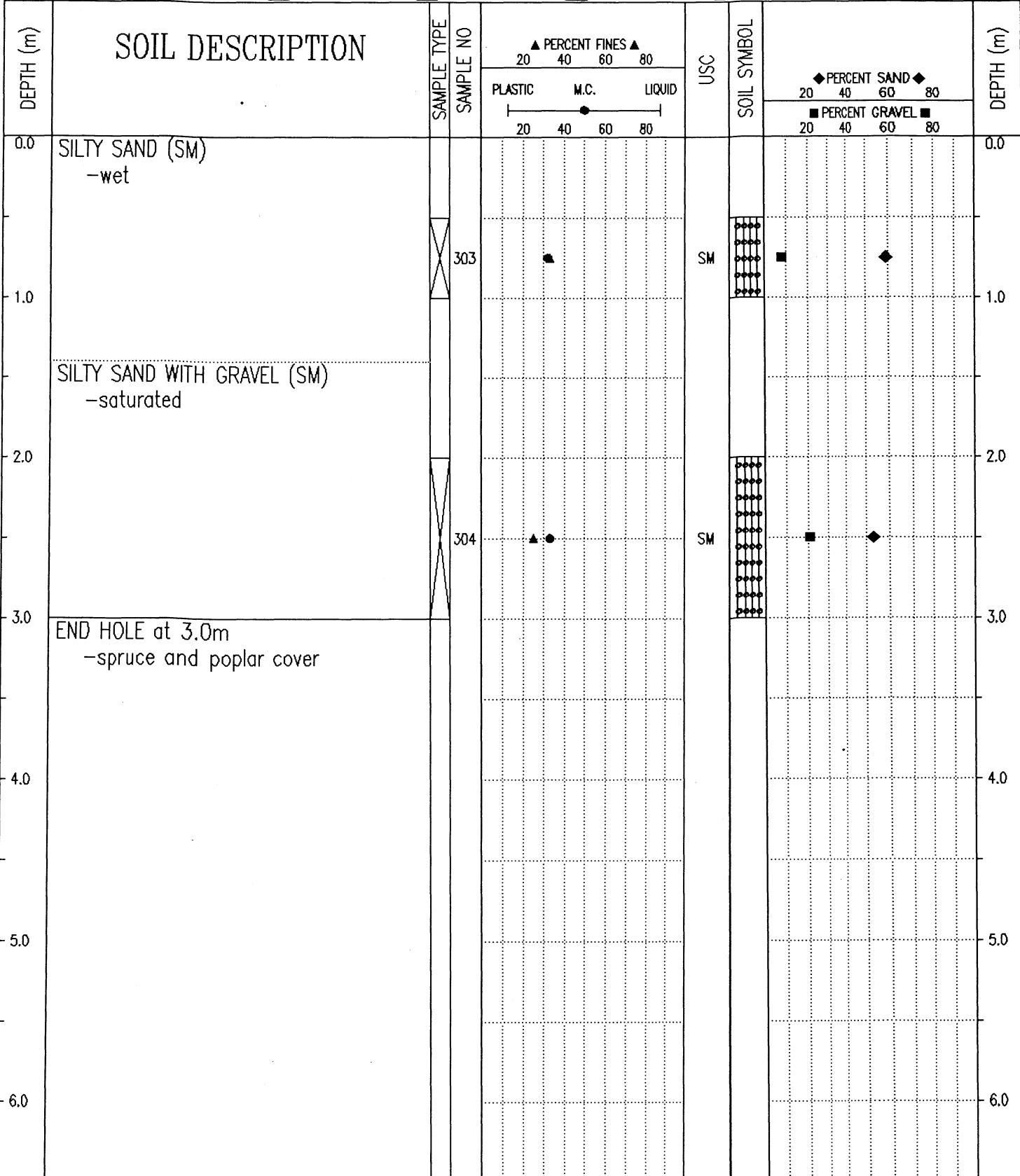
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COMPLETION DEPTH: 5.0 m

COMPLETE: 94/07/22

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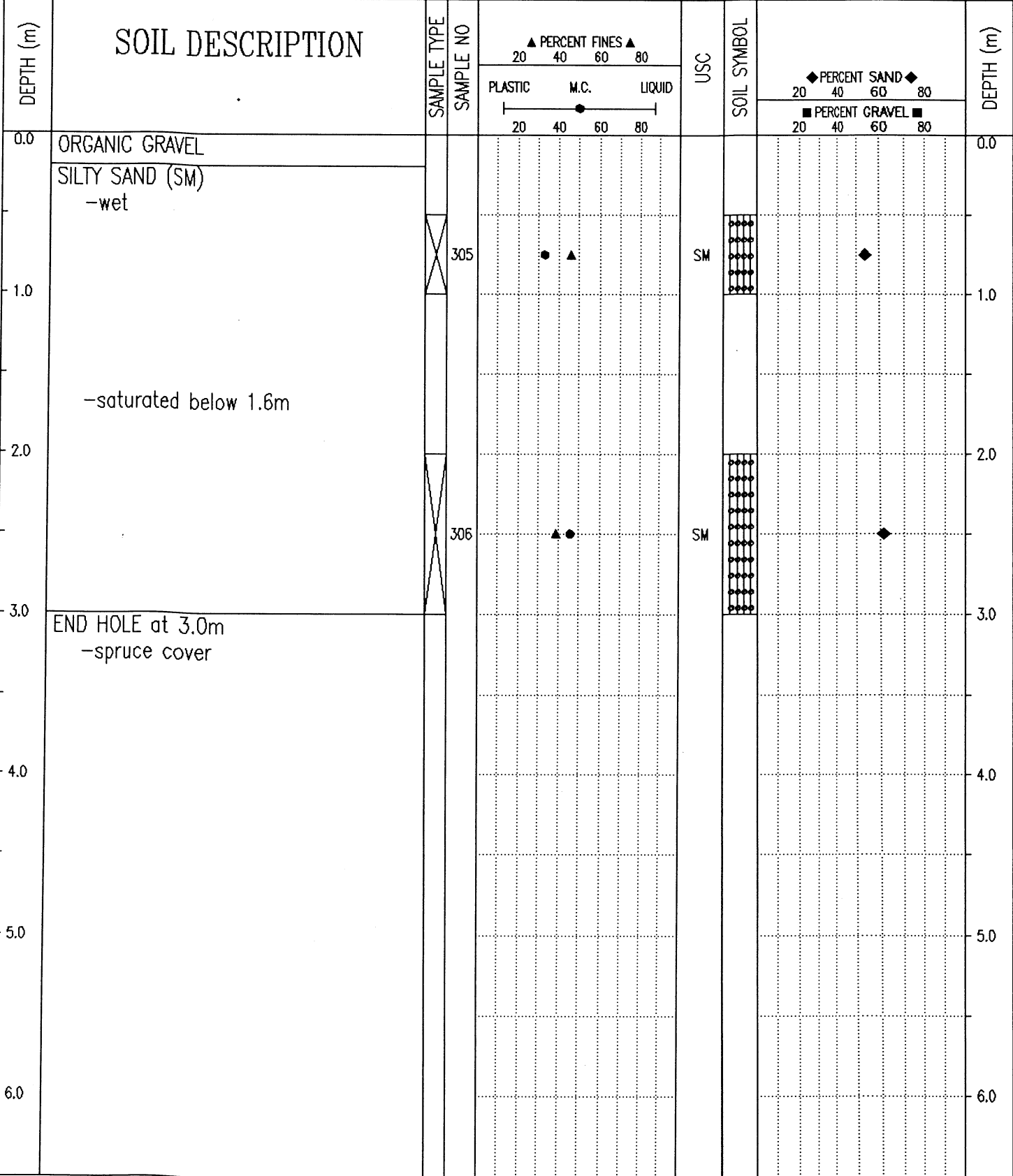
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SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+000 o/s 10m Lt.	ELEVATION: 0.00 (m)
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	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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	REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-262
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+100 o/s 10m Lt.	ELEVATION: 0.00 (m)

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

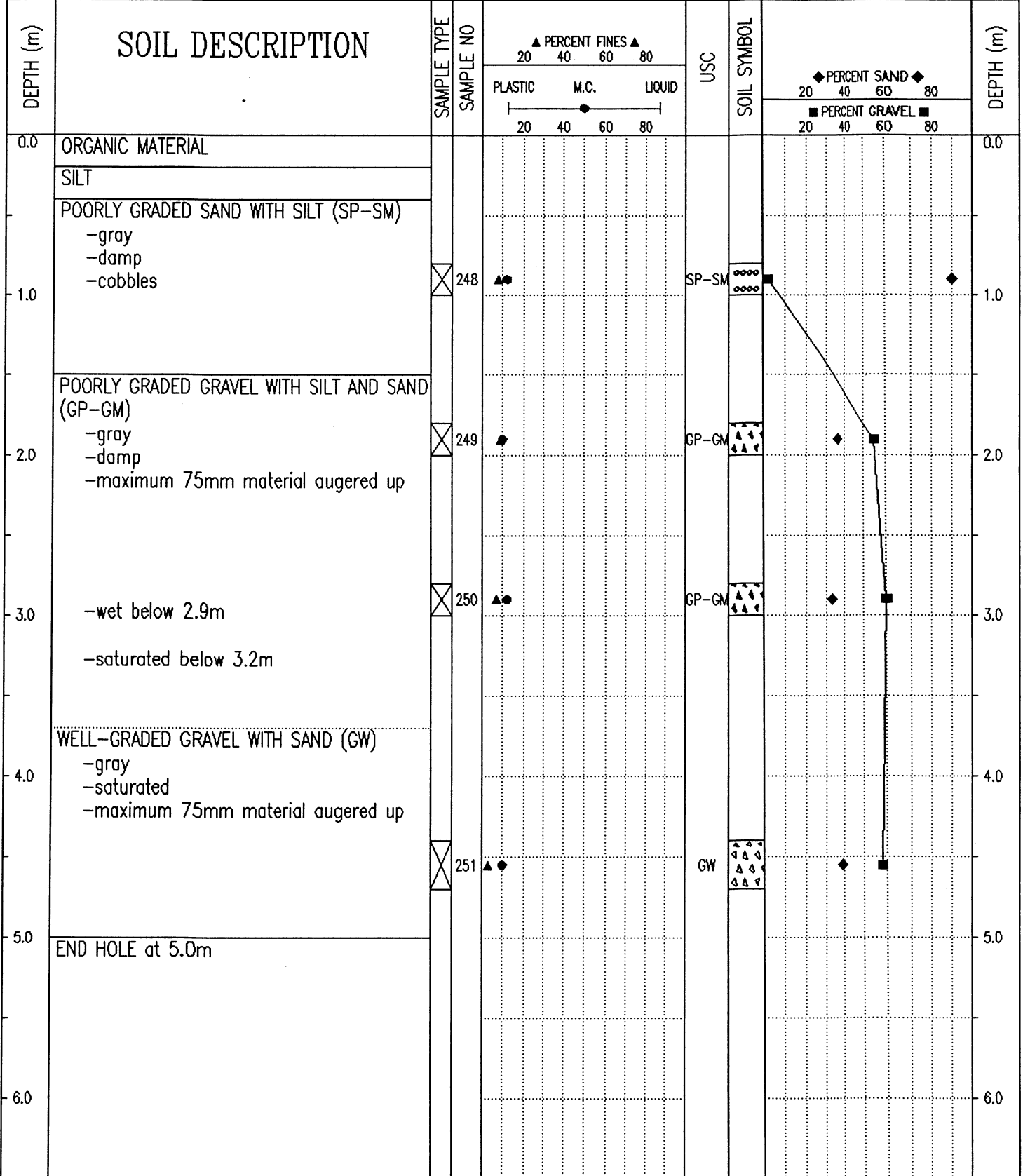


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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 305-74
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

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

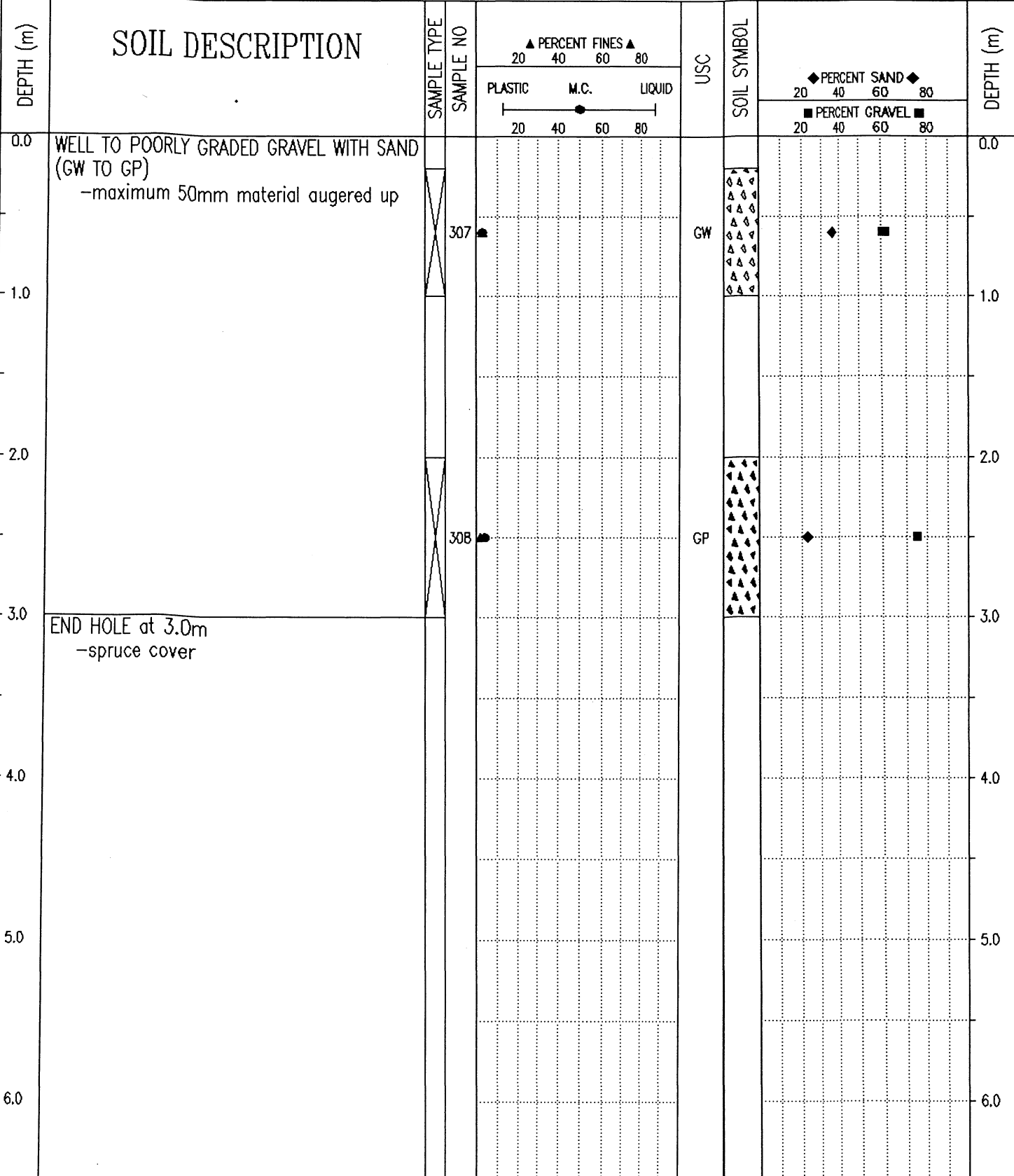


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Fig. No:  
COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/22  
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-263
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+200 o/s 10m Lt.	ELEVATION: 0.00 (m)

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

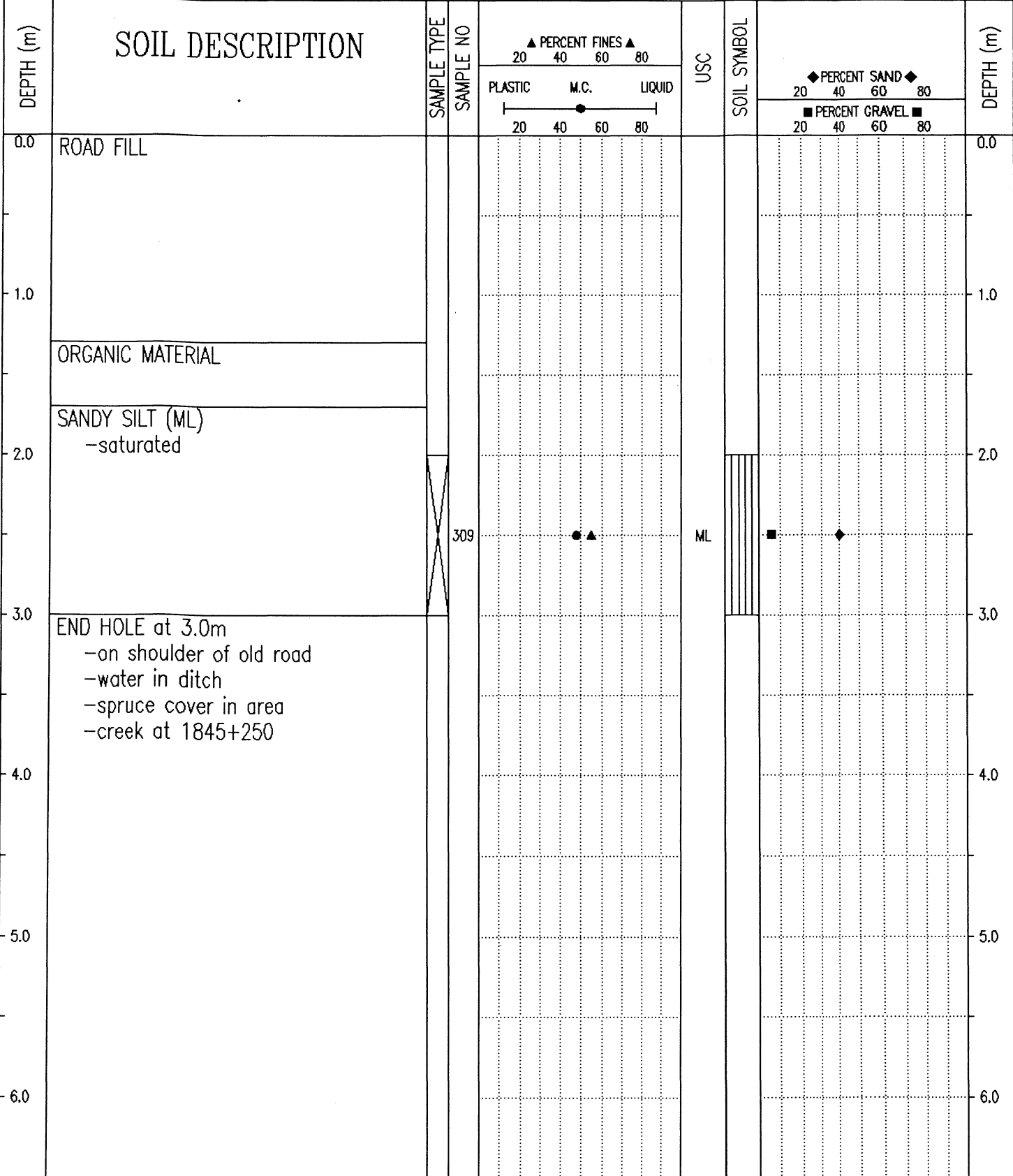


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REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-264
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+300 o/s 5m Lt.	ELEVATION: 0.00 (m)

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



Government of Yukon Transportation Engineering	LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 93/10/04
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 305-73								
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311								
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
AUGER		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL										0.0	
0.0 - 1.0	SANDY SILT (ML) -gray -wet -some organics		245				ML				1.0	
2.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -gray -saturated		246				SP-SM				2.0	
2.0 - 3.0	SANDY SILT (ML) -dark gray -saturated -some organics		247				ML				3.0	
5.0	END HOLE at 5.0m										5.0	
6.0											6.0	

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Fig. No:

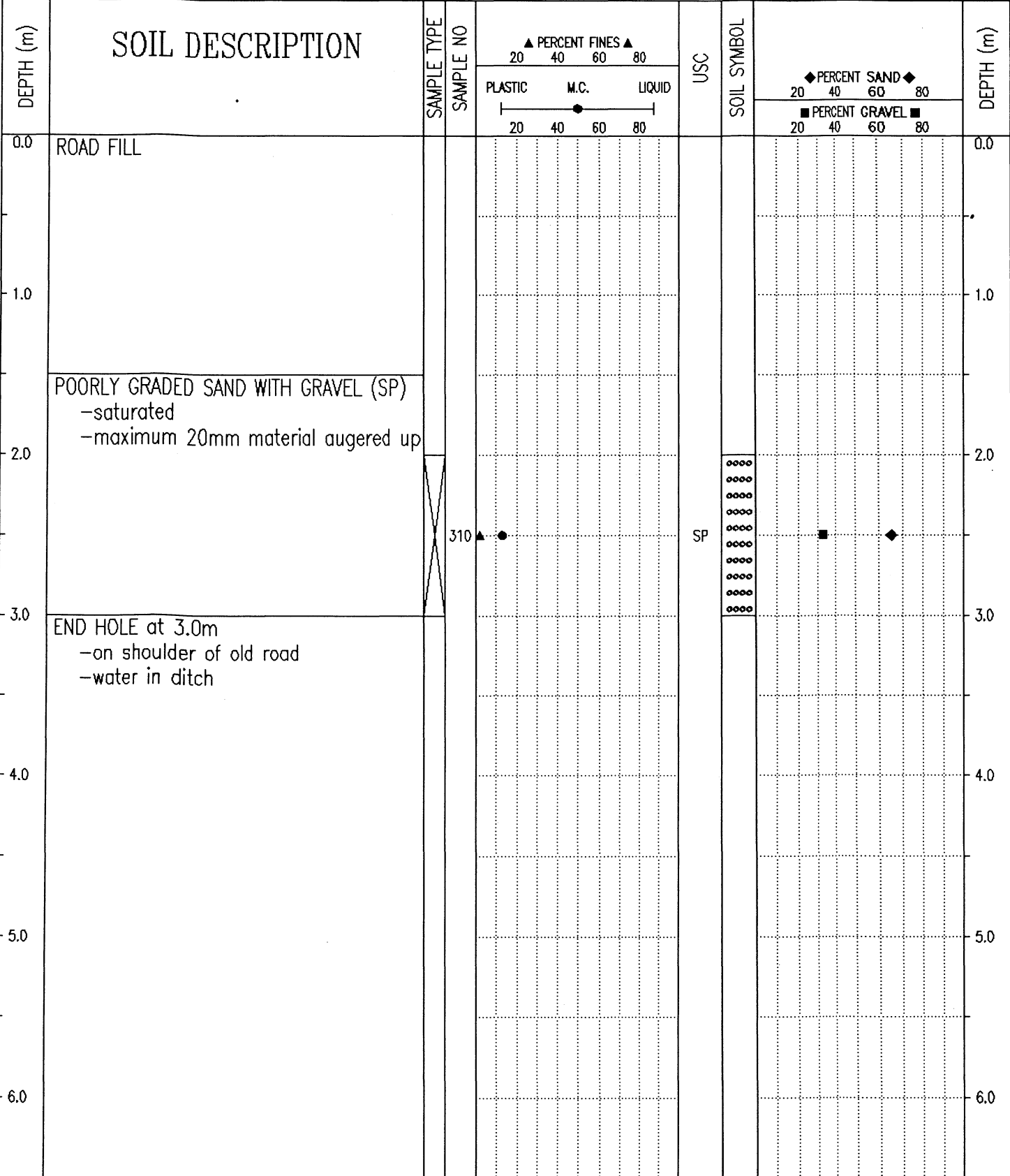
COMPLETION DEPTH: 5.0 m

COMPLETE: 94/07/22

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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-265
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+400 o/s 8m Lt.	ELEVATION: 0.00 (m)

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

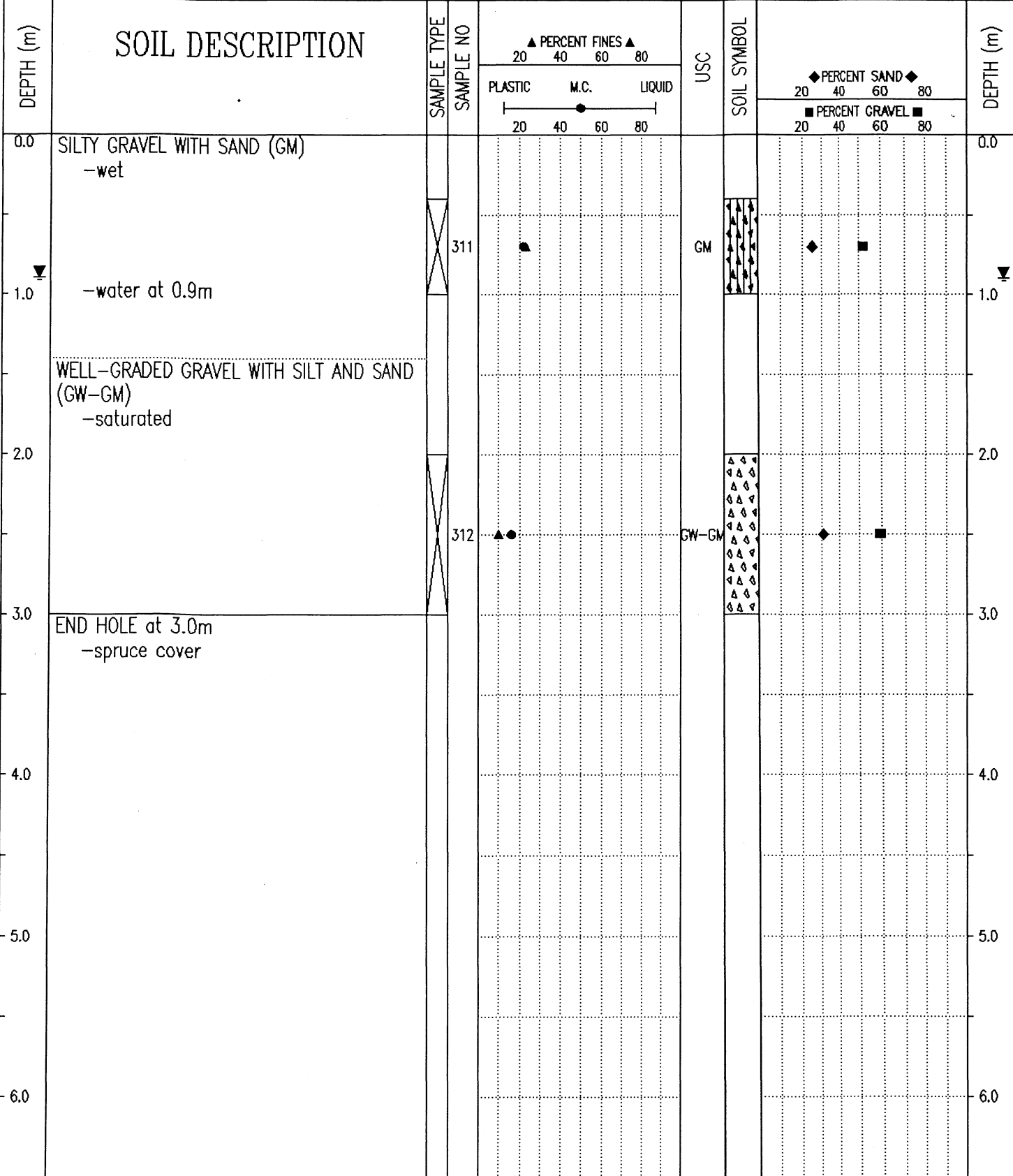


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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-266
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+500 o/s 10m Rt.	ELEVATION: 0.00 (m)

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

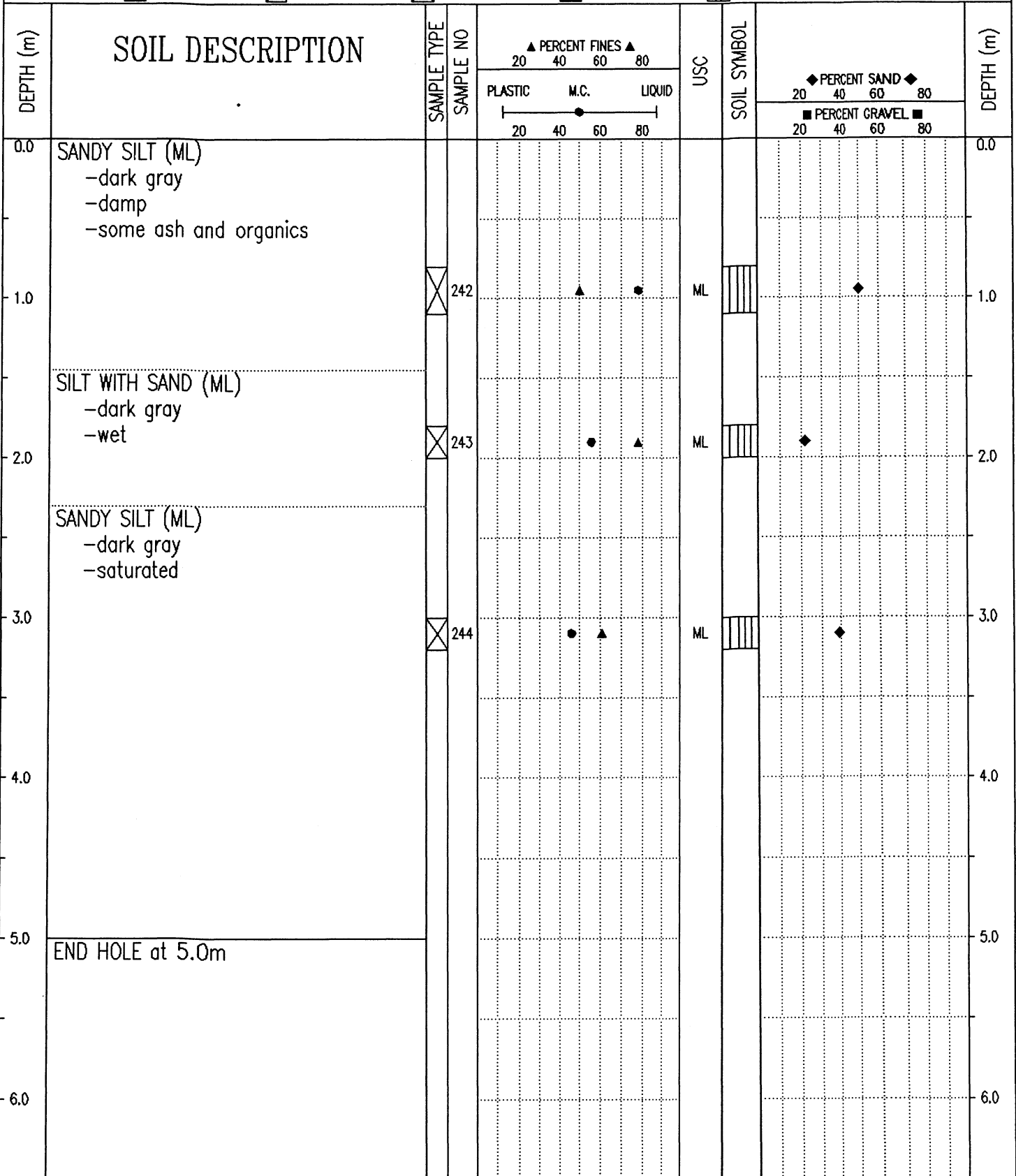


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Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/04

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 305-72
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	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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LOGGED BY: DA

REVIEWED BY:

Fig. No:

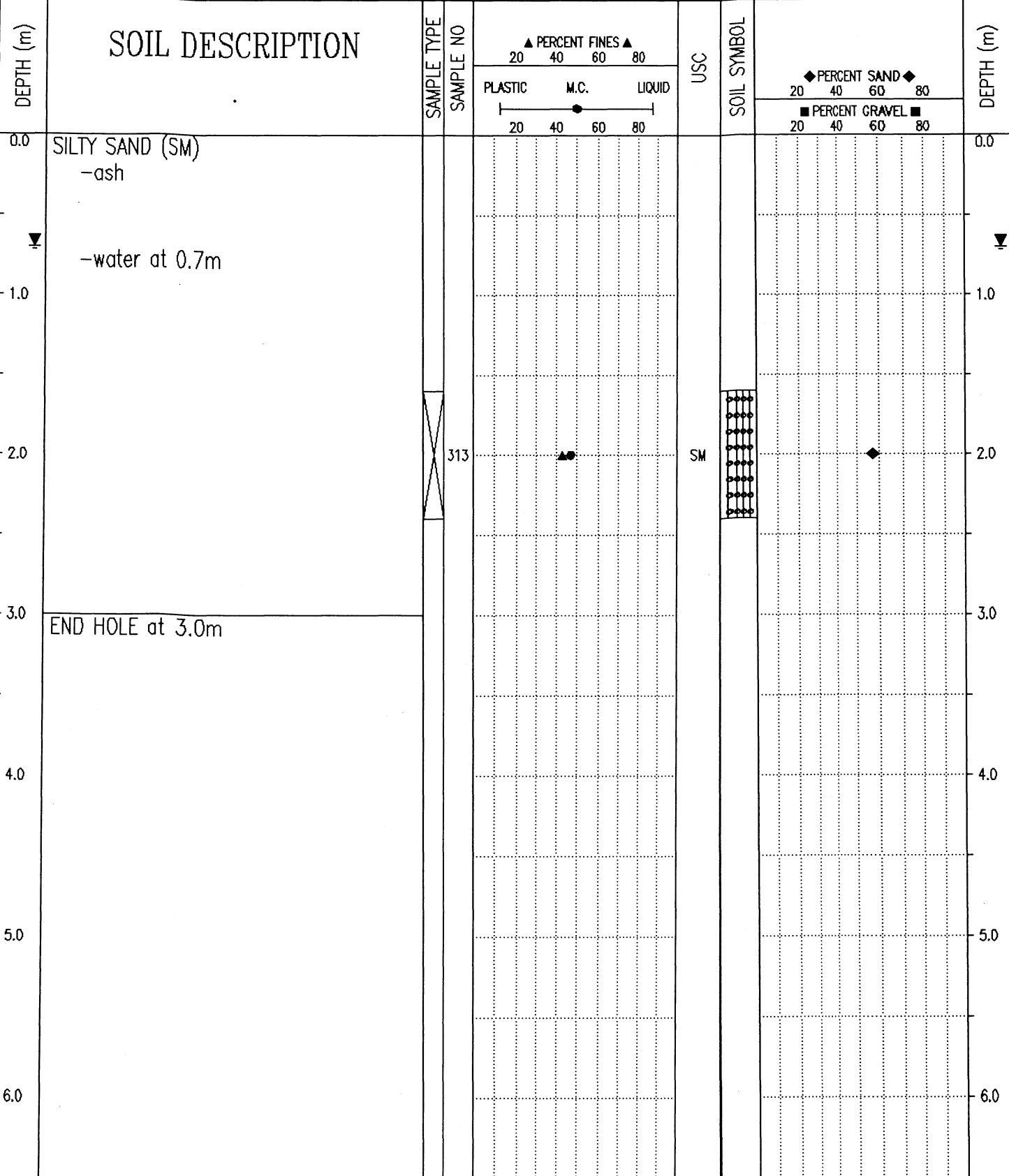
COMPLETION DEPTH: 5.0 m

COMPLETE: 94/07/22

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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-267
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+600 o/s 10m Lt.	ELEVATION: 0.00 (m)

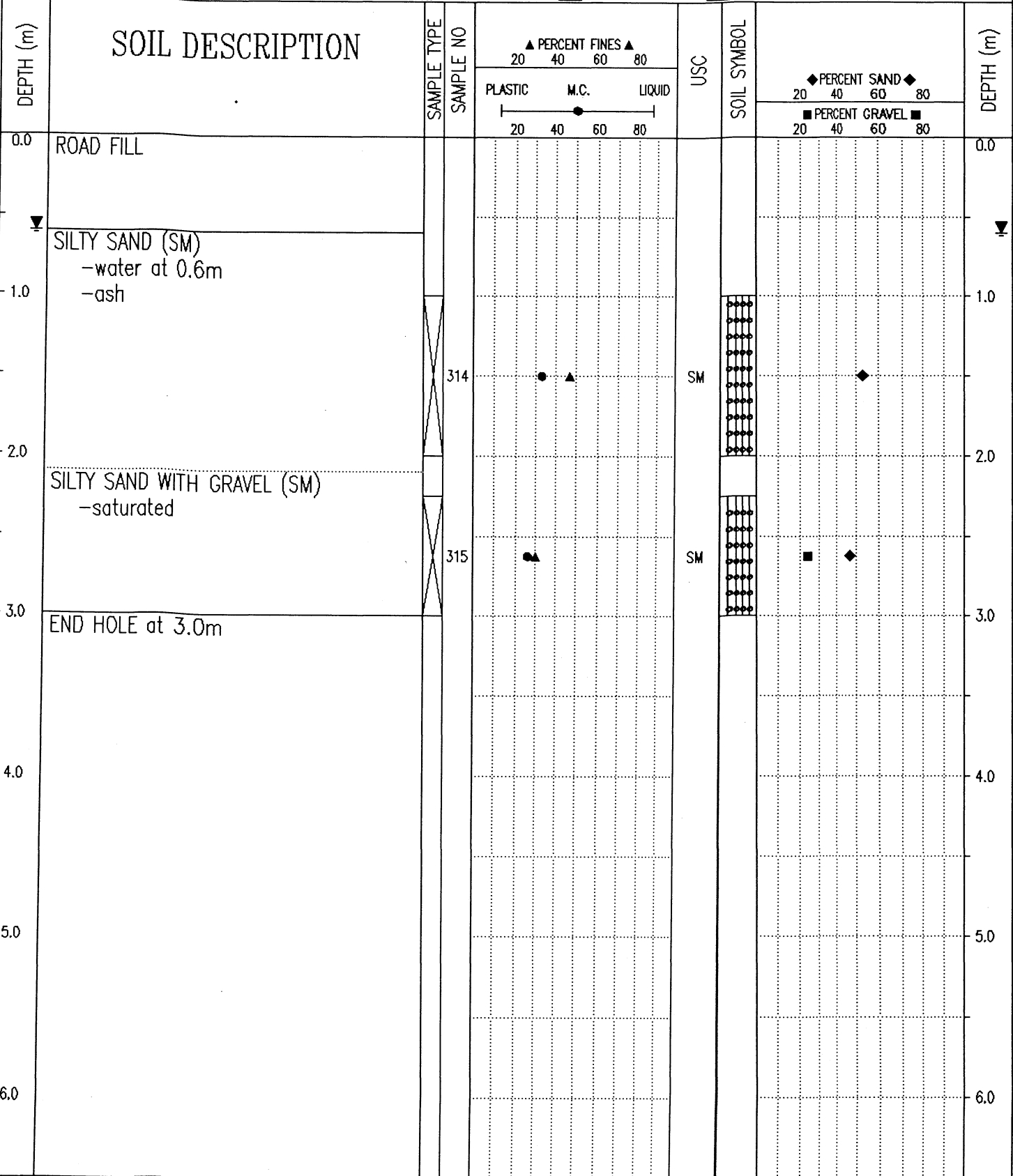
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-268
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+700 o/s 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		

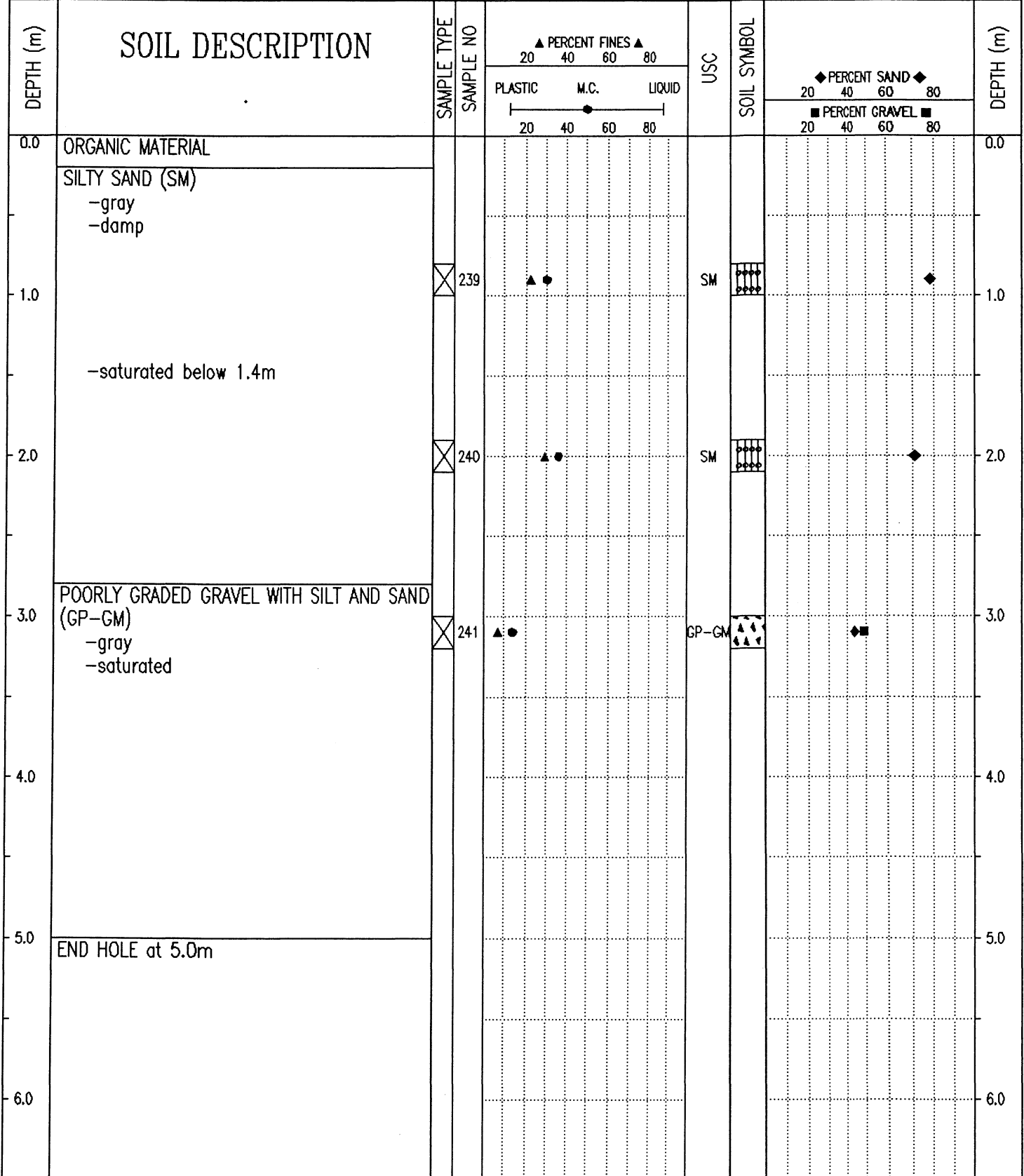


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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/04

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 305-71
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	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		



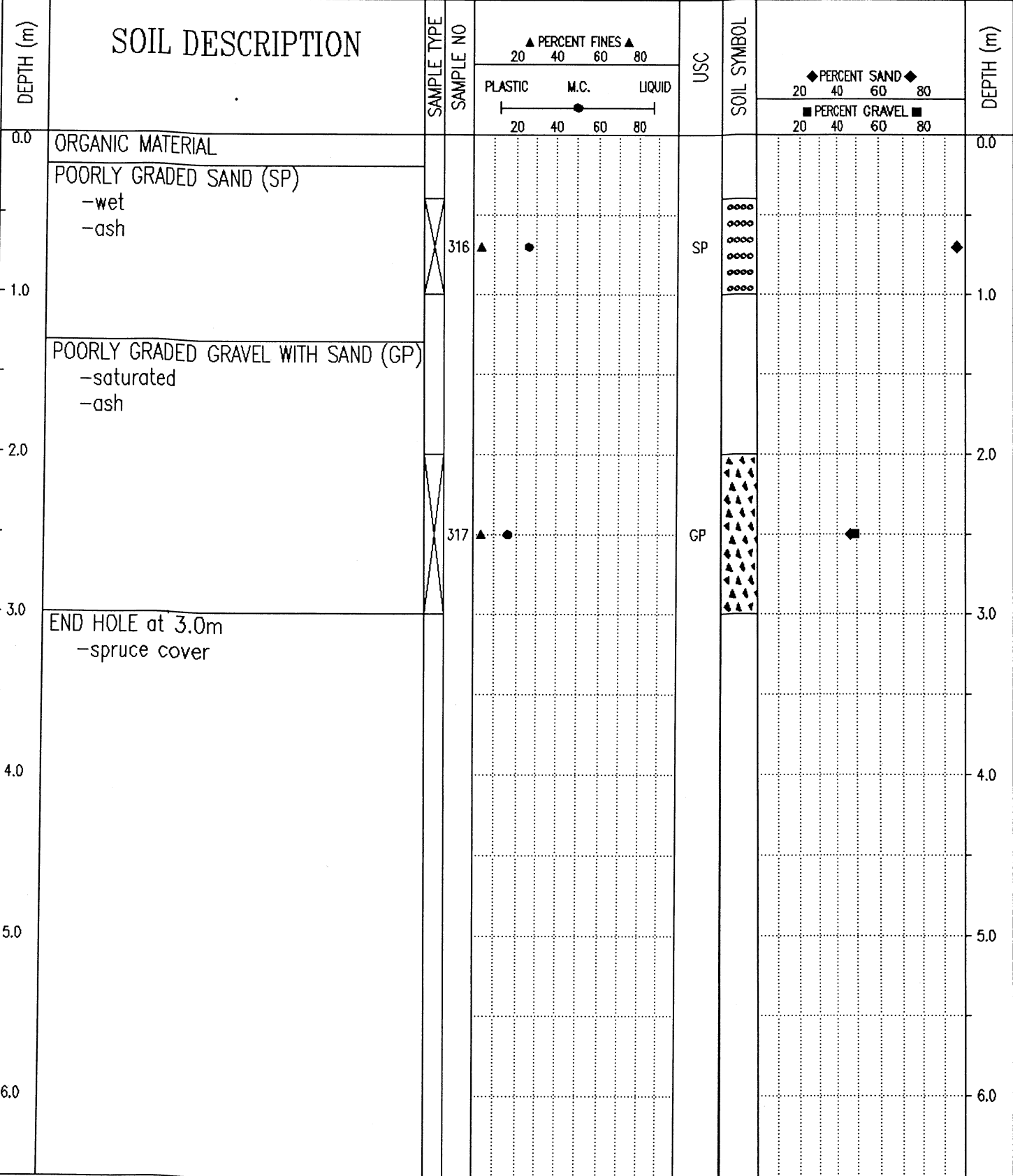
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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/22

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-269
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+800 o/s 5m Rt.	ELEVATION: 0.00 (m)

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

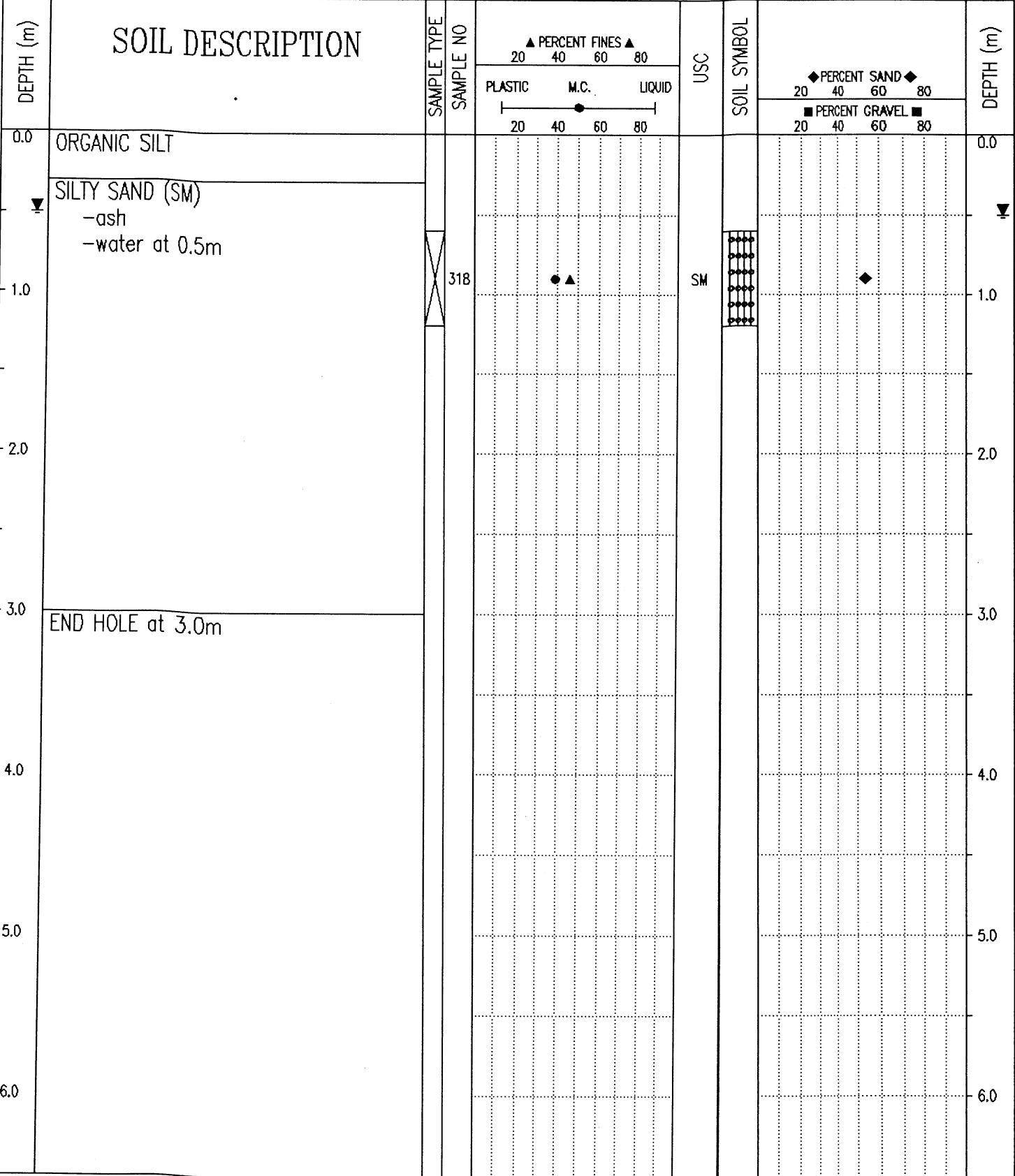


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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-270
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1845+900	ELEVATION: 0.00 (m)

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



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REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 305-70								
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311								
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
AUGER		BULK		TUBE								
CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND		PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL										0.0	
0.0 - 1.0	SILTY SAND (SM) -dark gray -damp -frozen below 0.5m	X	235	45	55	75	SM	SM	75	0	1.0	
1.0 - 2.0	SANDY SILT (ML) -dark gray -frozen	X	236	55	65	75	ML	ML	75	0	2.0	
2.0 - 3.0	SILT WITH SAND (ML) -dark gray -not frozen -organic	X	237	65	75	85	ML	ML	75	0	3.0	
3.0 - 4.0	SILTY SAND (SM) -dark gray -saturated	X	238	45	55	75	SM	SM	75	0	4.0	
4.0 - 5.0	END HOLE at 5.0m										5.0	
5.0 - 6.0											6.0	

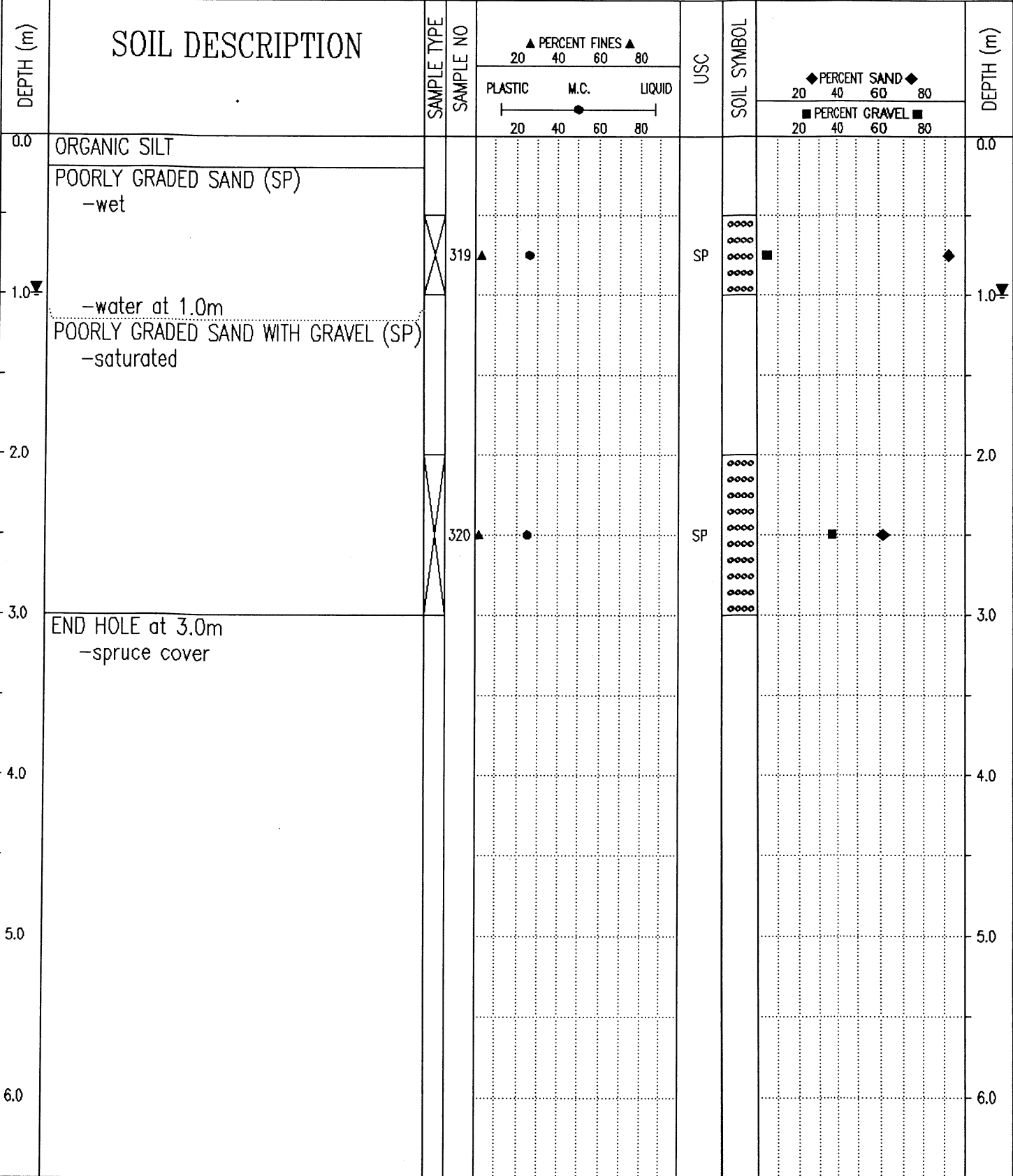
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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/22

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-271
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1846+000 o/s 5m Lt.	ELEVATION: 0.00 (m)

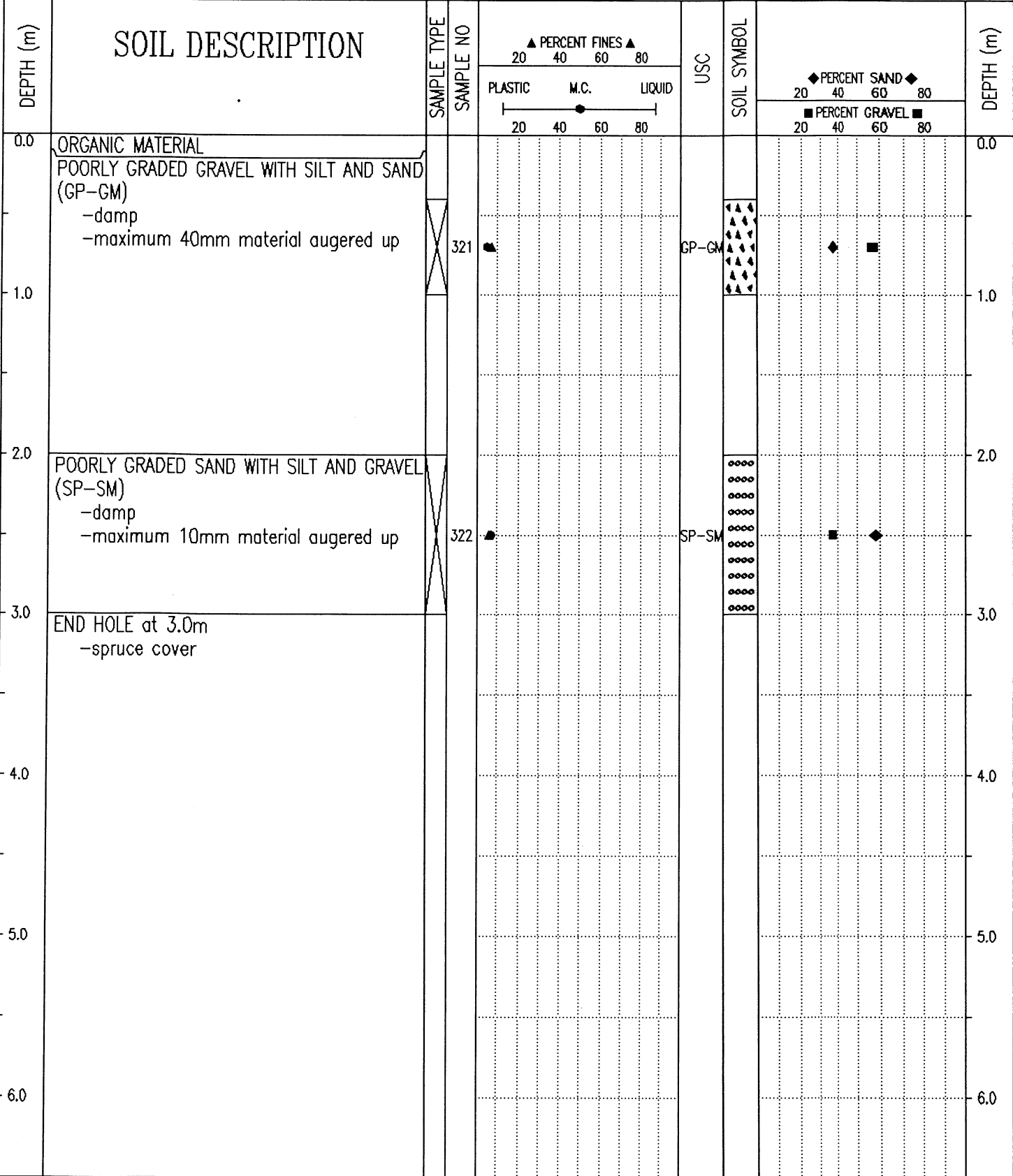
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



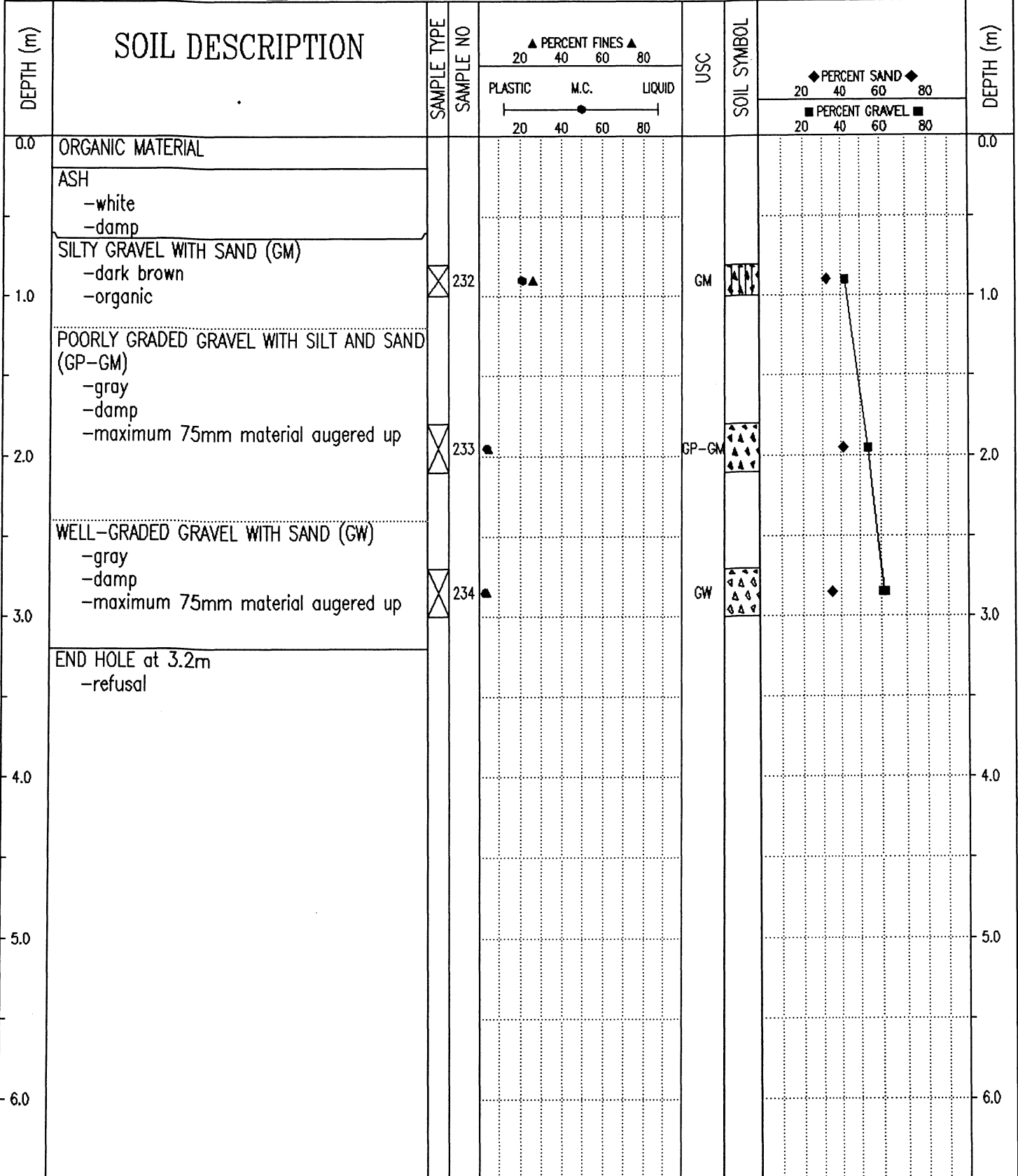
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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/04
Fig. No:	Page 1 of 1

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



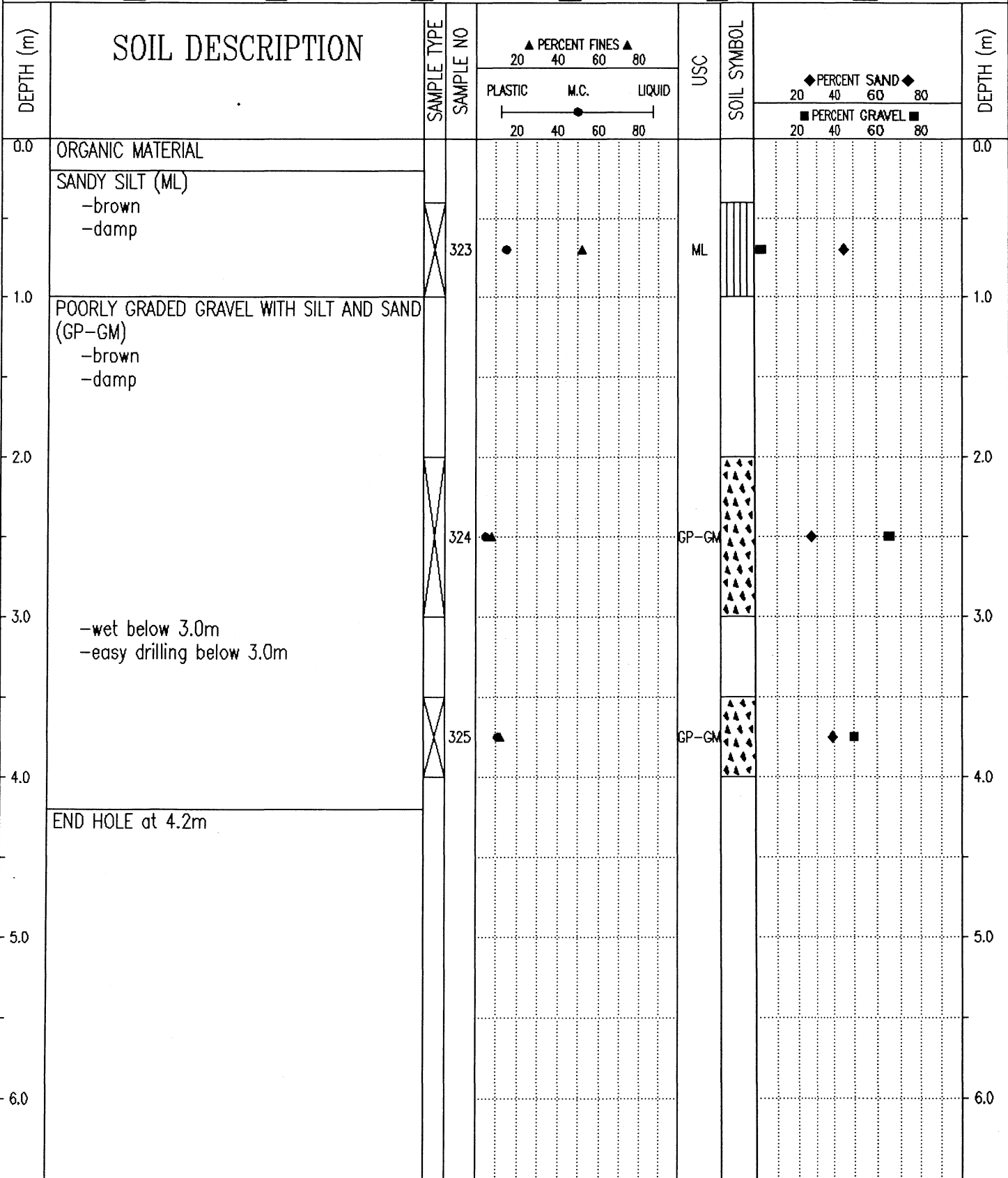
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: DA	COMPLETION DEPTH: 3.2 m
REVIEWED BY:	COMPLETE: 94/07/22
Fig. No:	Page 1 of 1

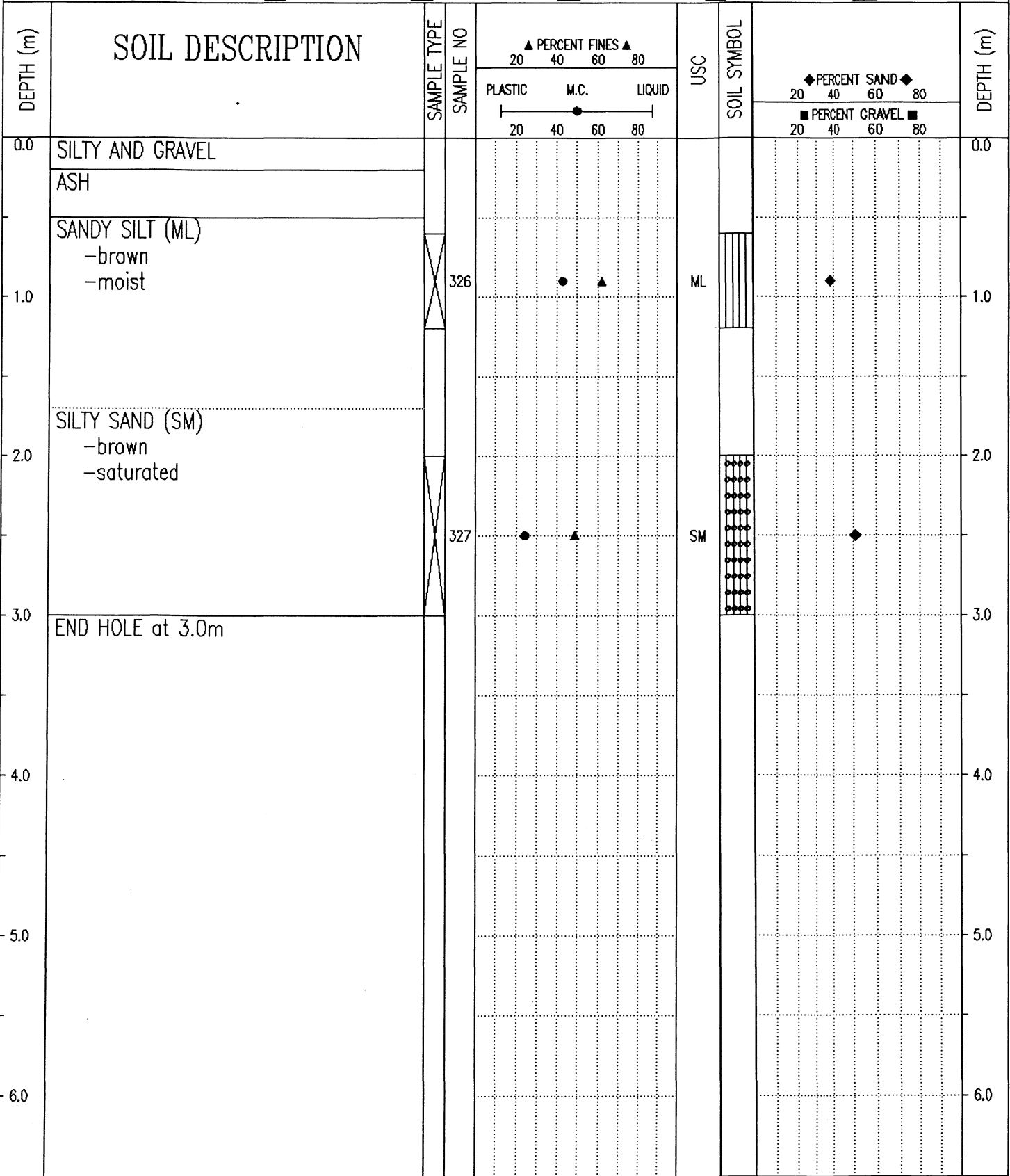
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-273
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1846+200 o/s 5m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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LOGGED BY: GC	COMPLETION DEPTH: 4.2 m
REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-274
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1846+300 o/s 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		



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	REVIEWED BY:	COMPLETE: 93/10/04
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 305-68								
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311								
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		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 MATERIAL											0.0
0.0 - 1.0	SILTY SAND (SM) -white -moist -ash		228	45	55	75	SM	SM	75	5		1.0
1.0 - 2.0	ORGANIC MATERIAL -frozen SILTY SAND (SM) -dark gray -wet		229	35	45	65	SM	SM	75	5		2.0
2.0 - 3.0	-saturated below 2.9m		230	35	45	65	SM	SM	75	5		3.0
3.0 - 4.0	SANDY SILT (SM) -dark gray -saturated -some organics		231	45	55	75	ML	ML	75	5		4.0
4.0 - 5.0	END HOLE at 5.0m											5.0
5.0 - 6.0												6.0

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Fig. No:

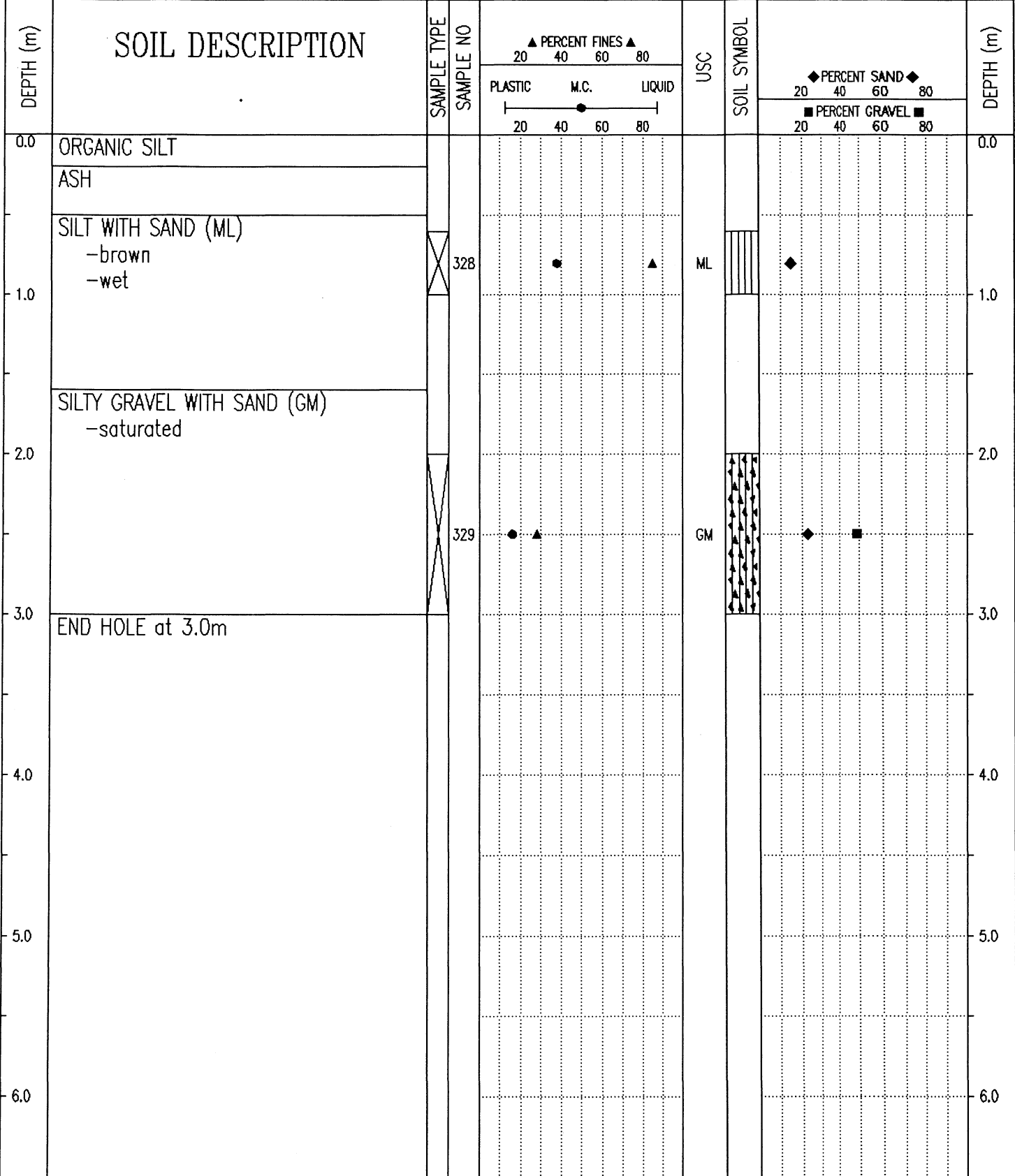
COMPLETION DEPTH: 5.0 m

COMPLETE: 94/07/22

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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-275
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1846+400 o/s 15m Lt.	ELEVATION: 0.00 (m)

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

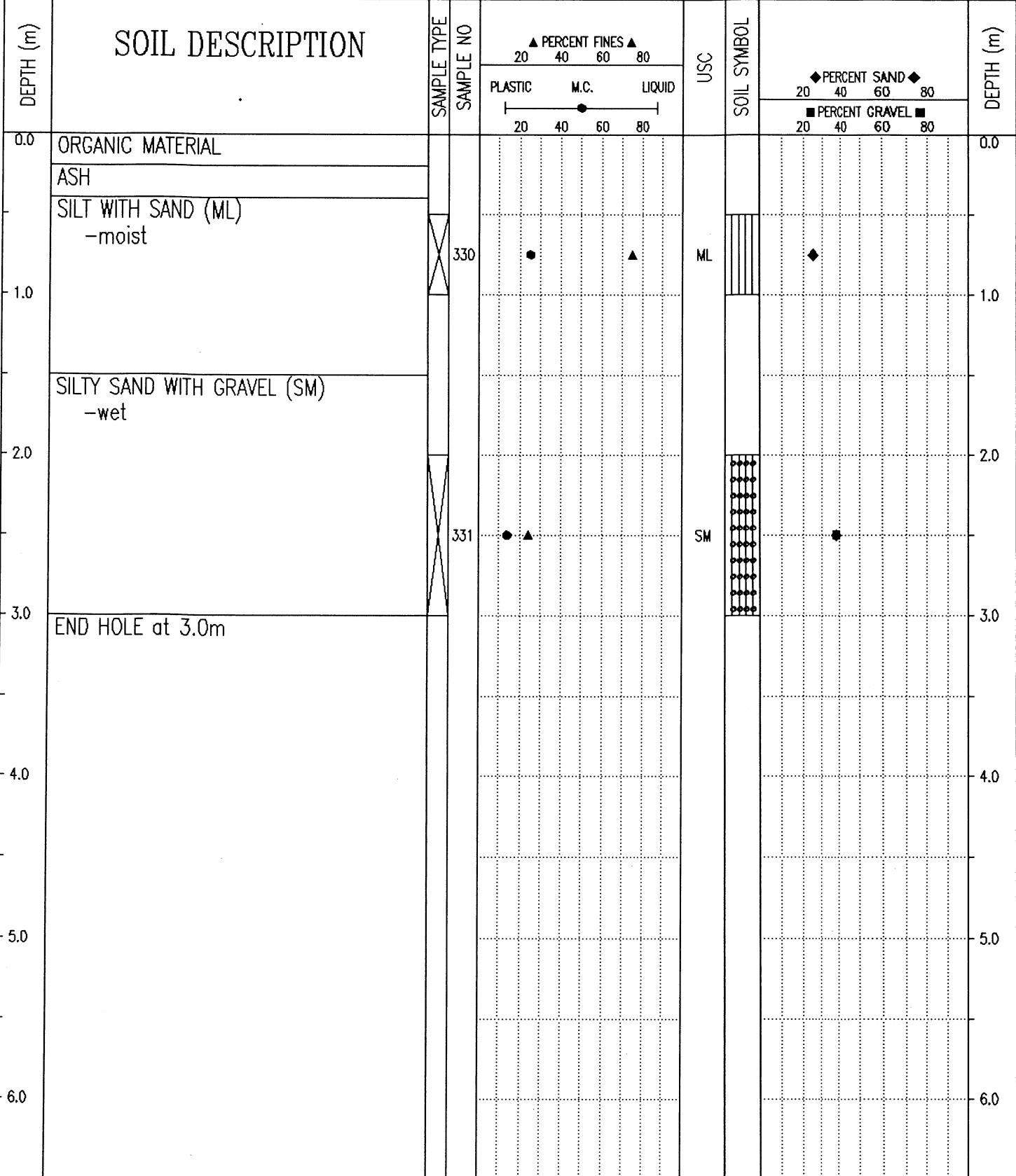


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Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/04

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



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LOGGED BY: GC

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 3.0 m

COMPLETE: 93/10/04

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 305-67							
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311							
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		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 MATERIAL ASH									0.0	
1.0	SILT WITH SAND (ML) -light gray -damp	<input checked="" type="checkbox"/>	224	45	15	75	ML	ML	55	1.0	
2.0		<input checked="" type="checkbox"/>	225	45	15	75	ML	ML	55	2.0	
3.0	SANDY SILT (ML) -dark gray -damp -gray below 3.3m -saturated below 3.3m	<input checked="" type="checkbox"/>	226	35	15	65	ML	ML	55	3.0	
4.0		<input checked="" type="checkbox"/>	227	45	15	75	ML	ML	55	4.0	
5.0	END HOLE at 5.0m									5.0	
6.0										6.0	

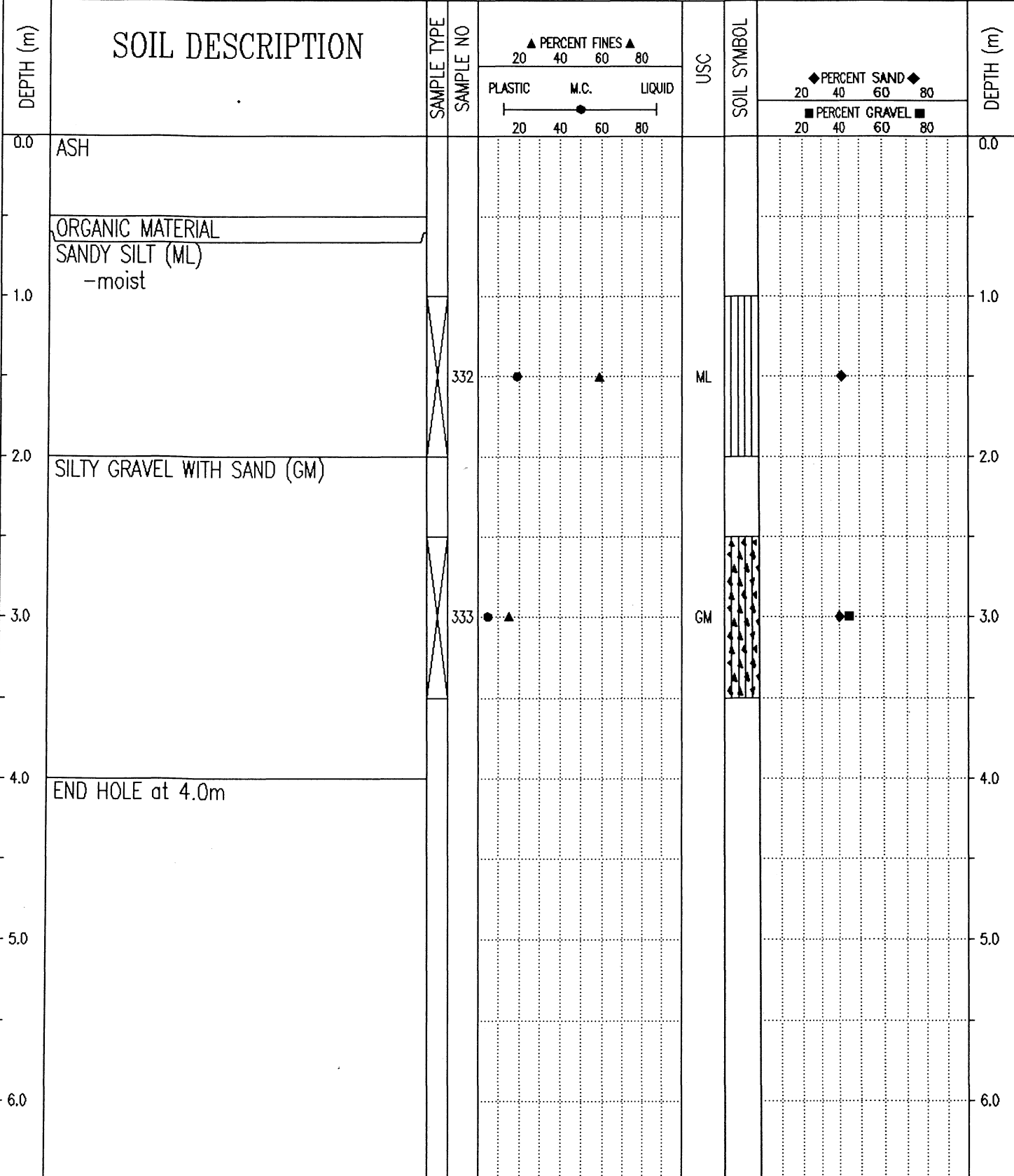
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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/21

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-277
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1846+600 o/s 3m Lt.	ELEVATION: 0.00 (m)

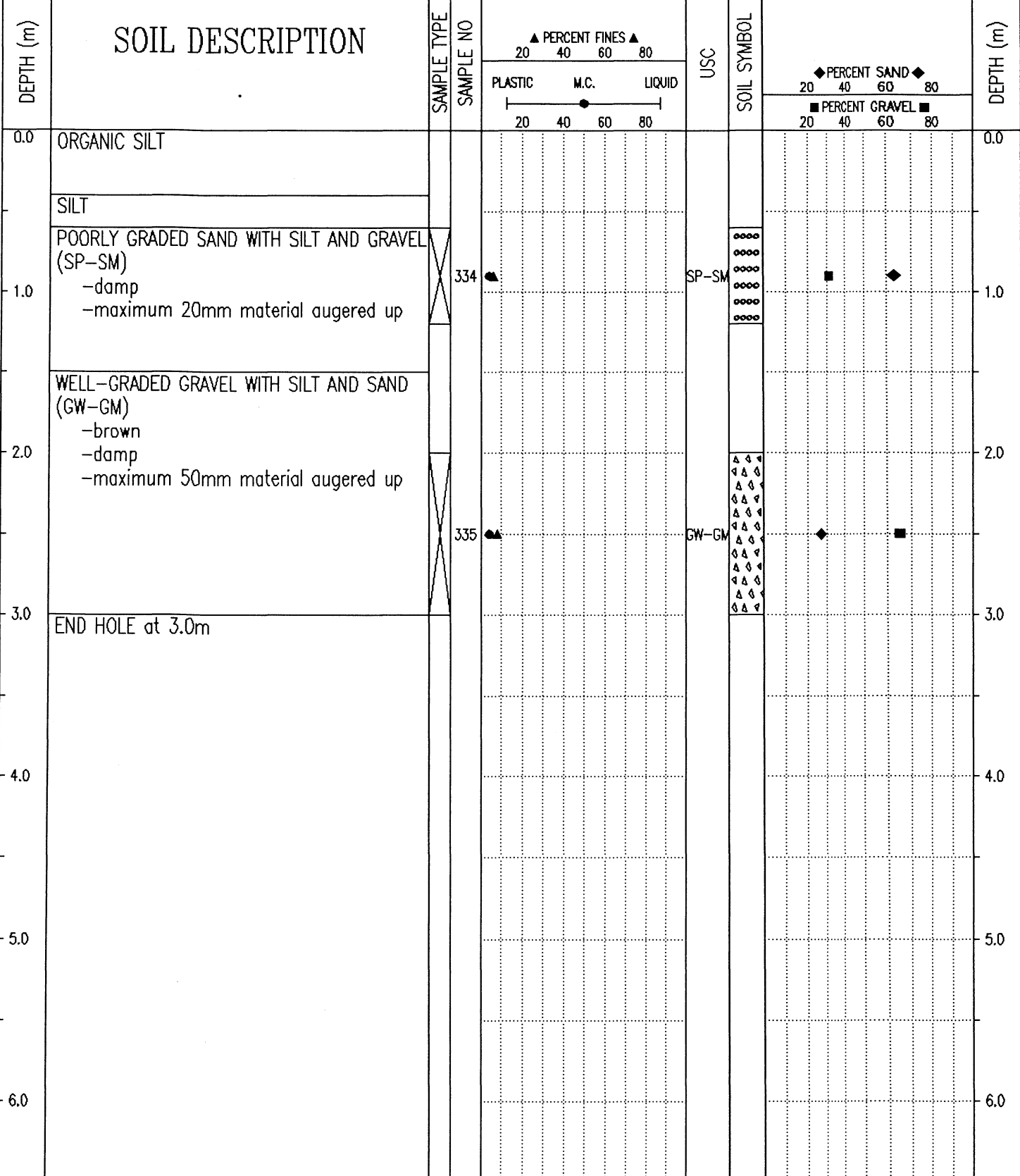
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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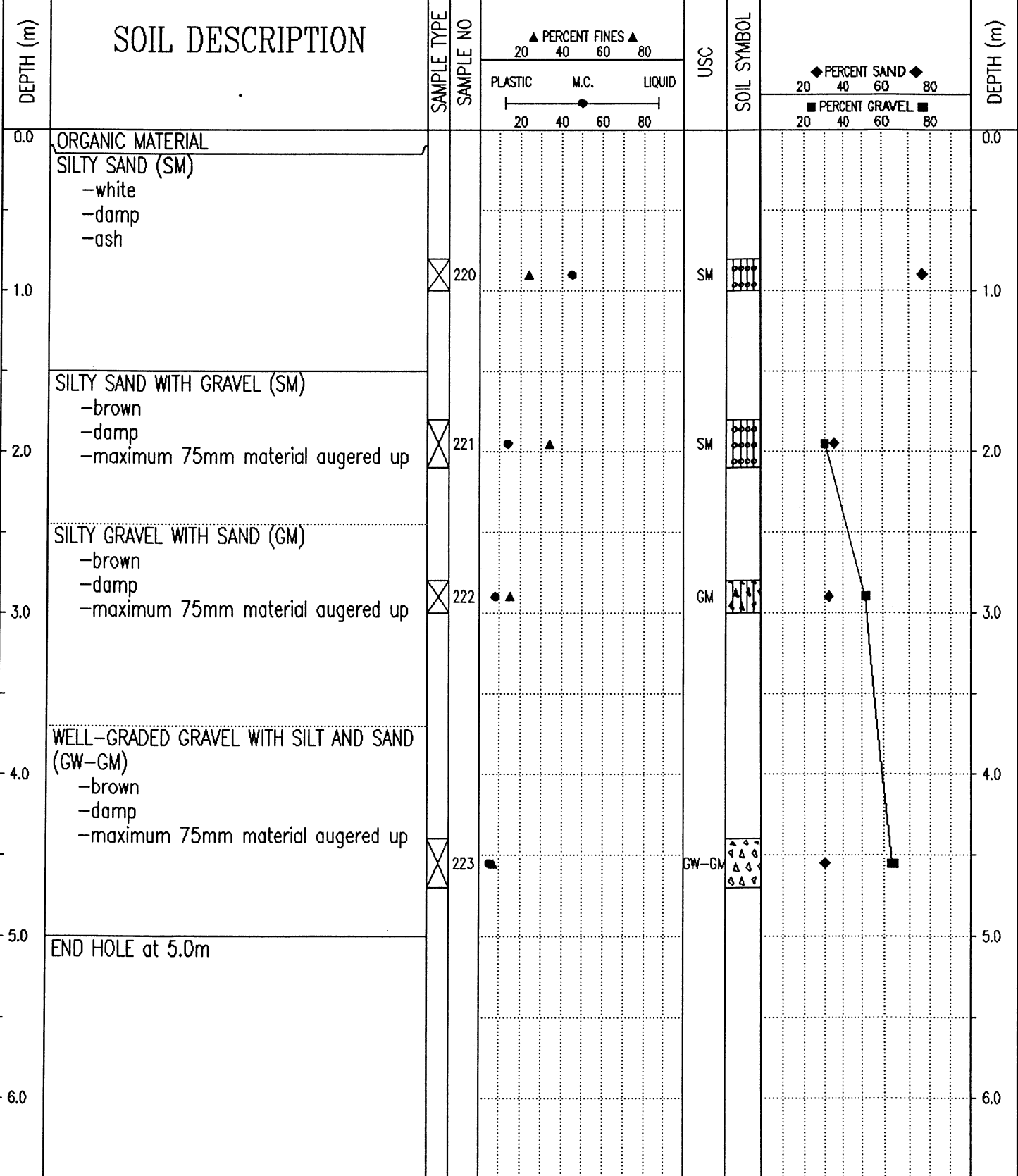
LOGGED BY: GC	COMPLETION DEPTH: 4.0 m
REVIEWED BY:	COMPLETE: 93/10/04
Fig. No:	Page 1 of 1

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



94/01/26 09:45AM

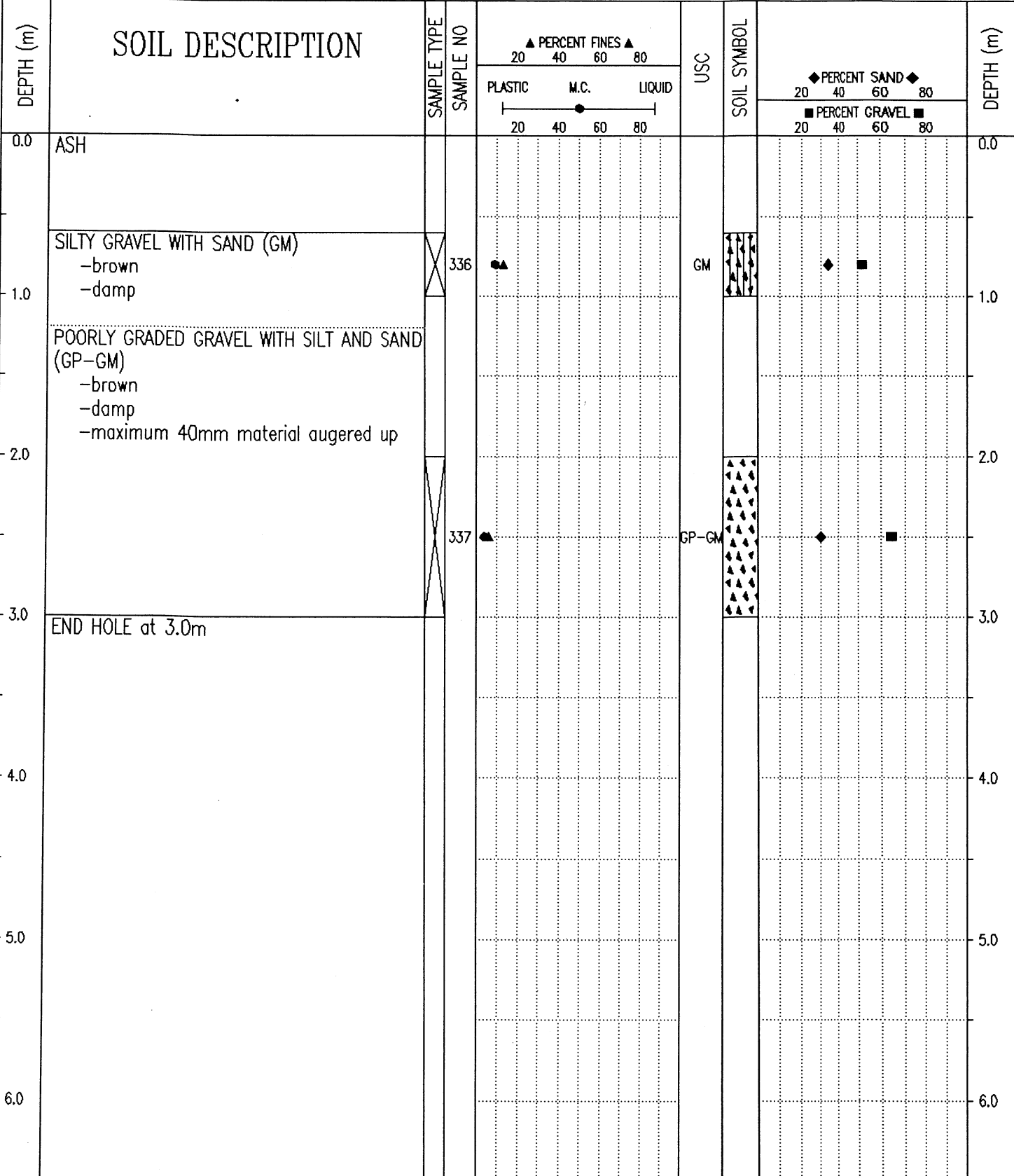
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/21
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SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

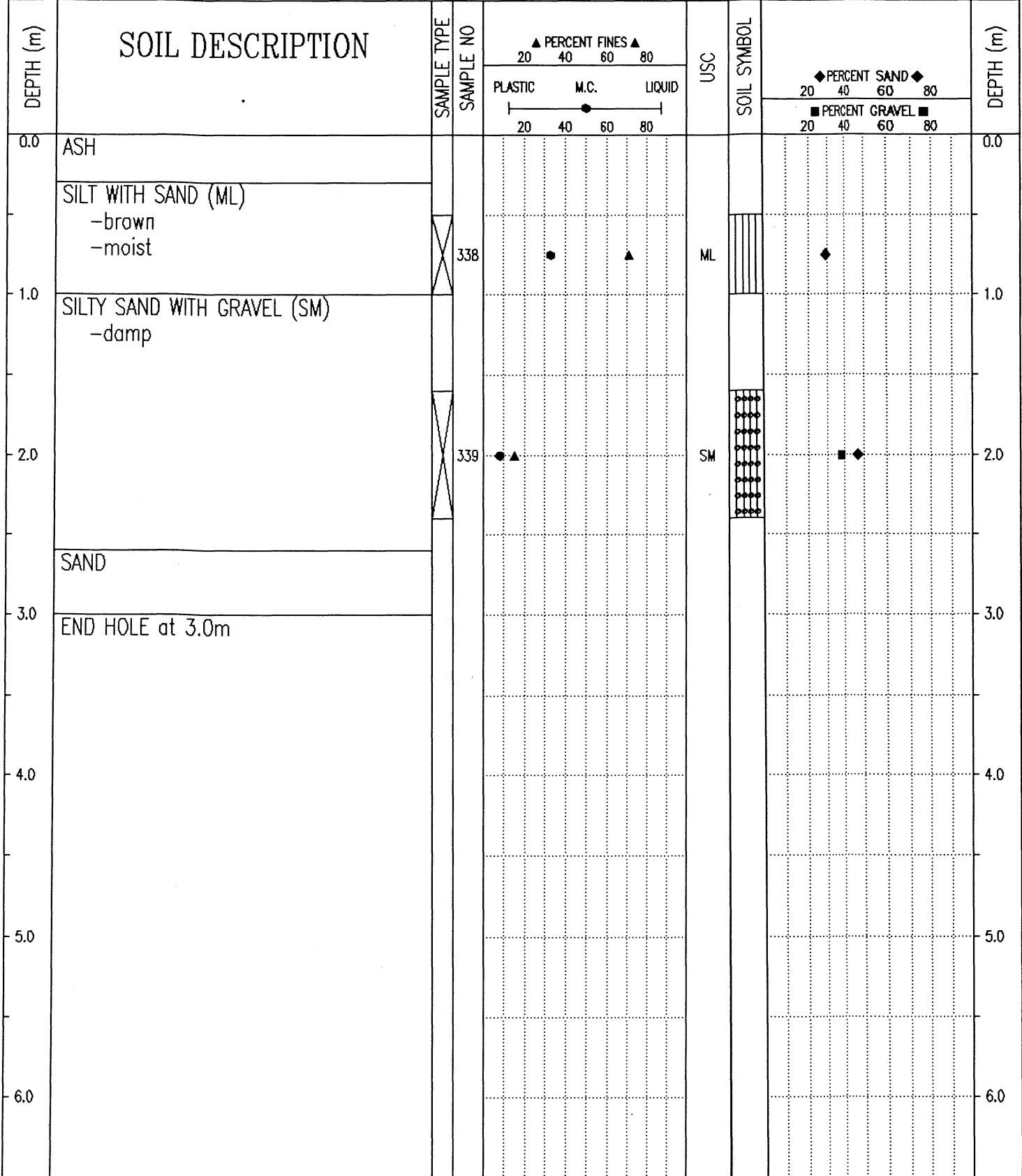


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Transportation Engineering

LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-280
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1846+900 o/s 5m Lt.	ELEVATION: 0.00 (m)

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

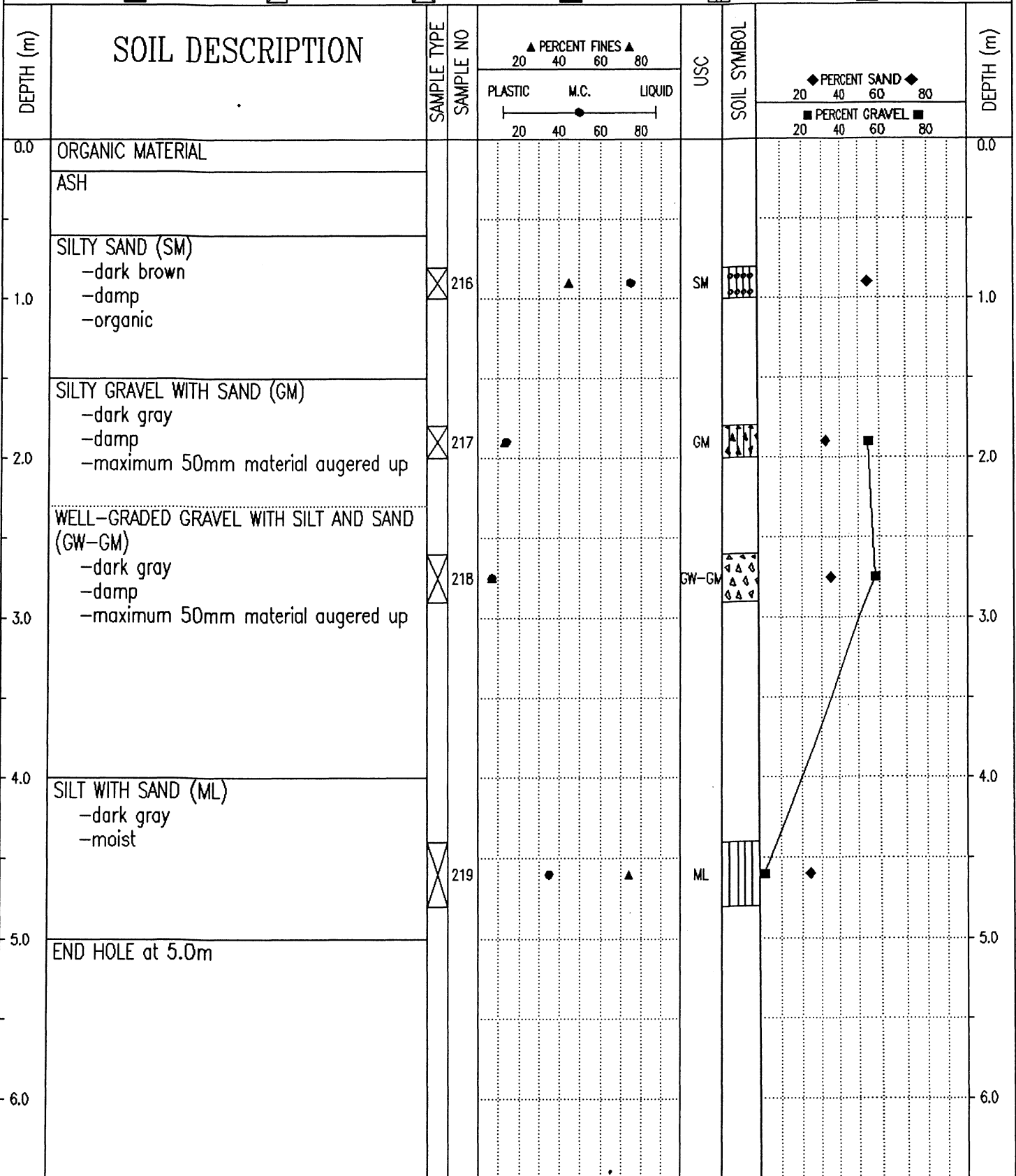


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Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/04

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 305-65
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	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



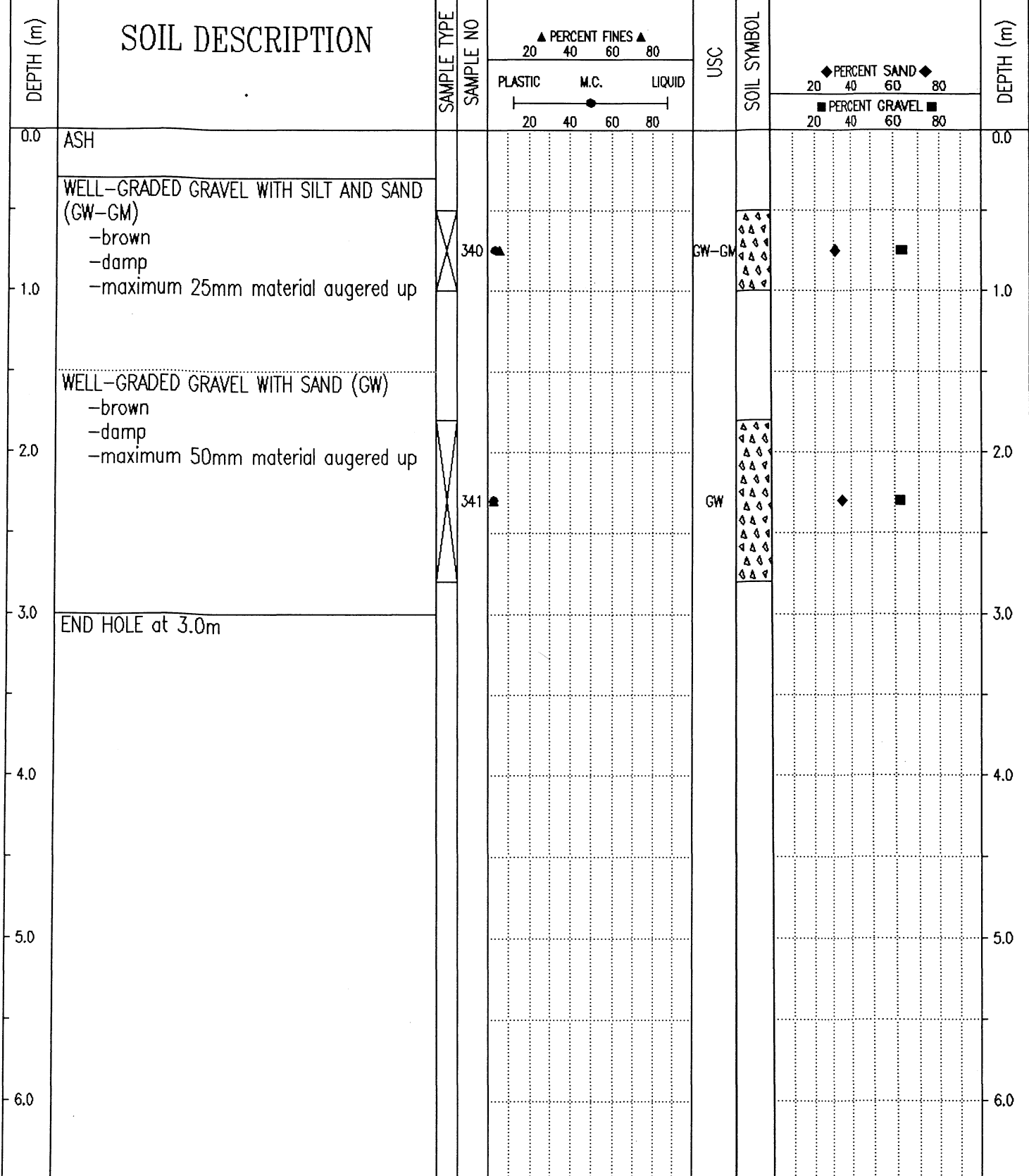
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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/21

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-281
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+000 o/s 5m Rt.	ELEVATION: 0.00 (m)

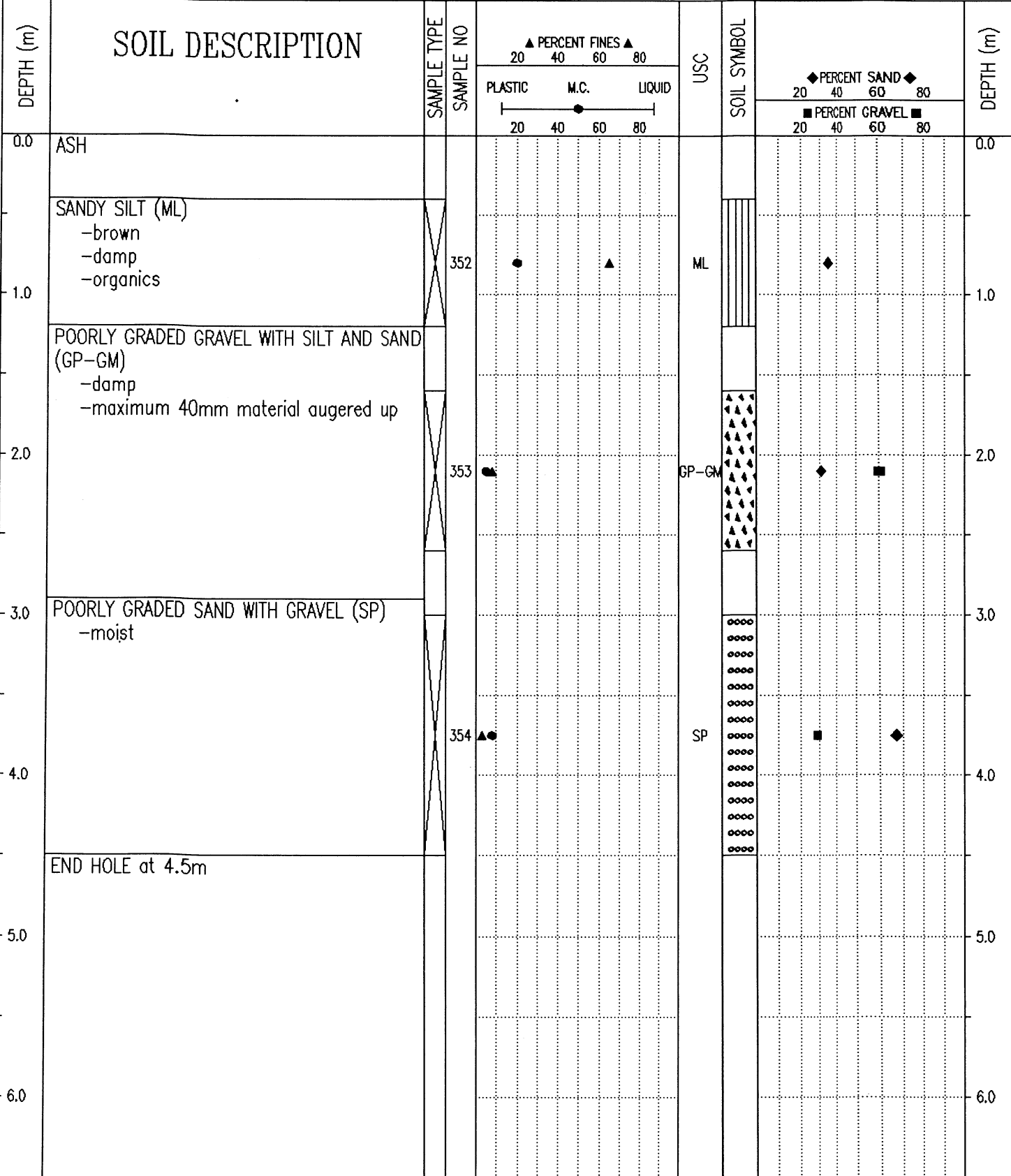
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon Transportation Engineering	LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 93/10/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-286
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+100 o/s 5m Lt.	ELEVATION: 0.00 (m)

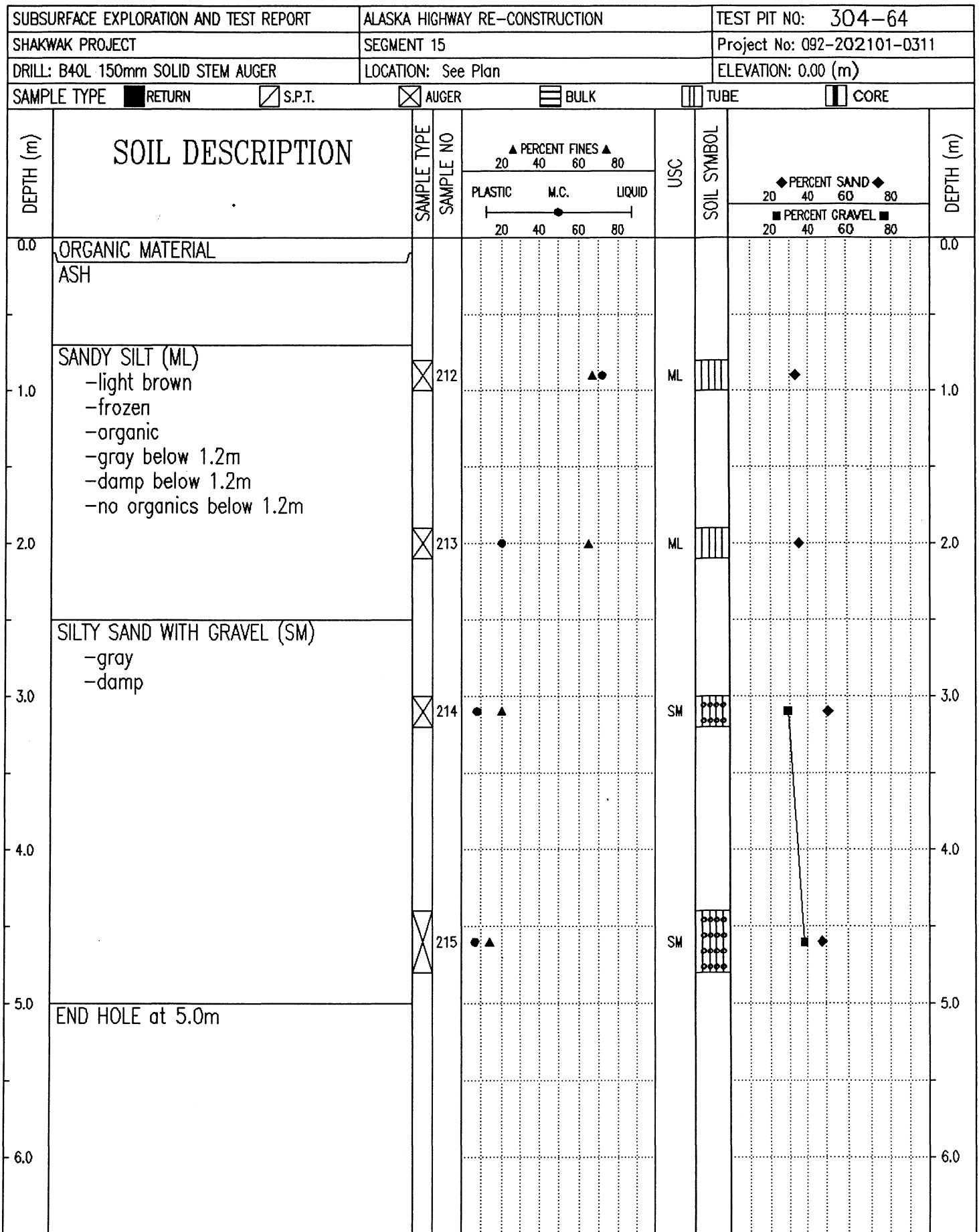
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/10/05



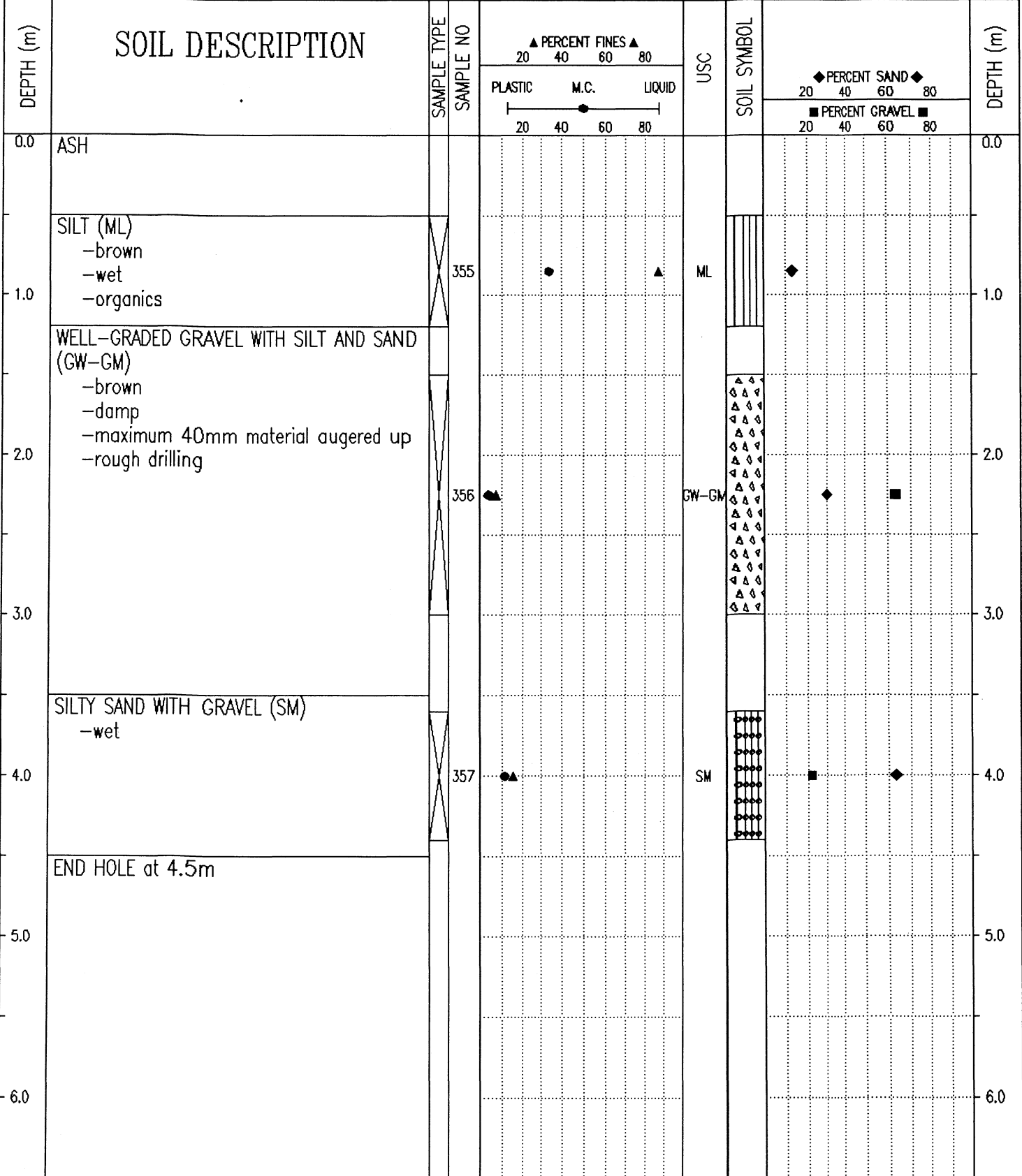
Government of Yukon  
Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/21

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-287
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+200 o/s 5m Lt.	ELEVATION: 0.00 (m)

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

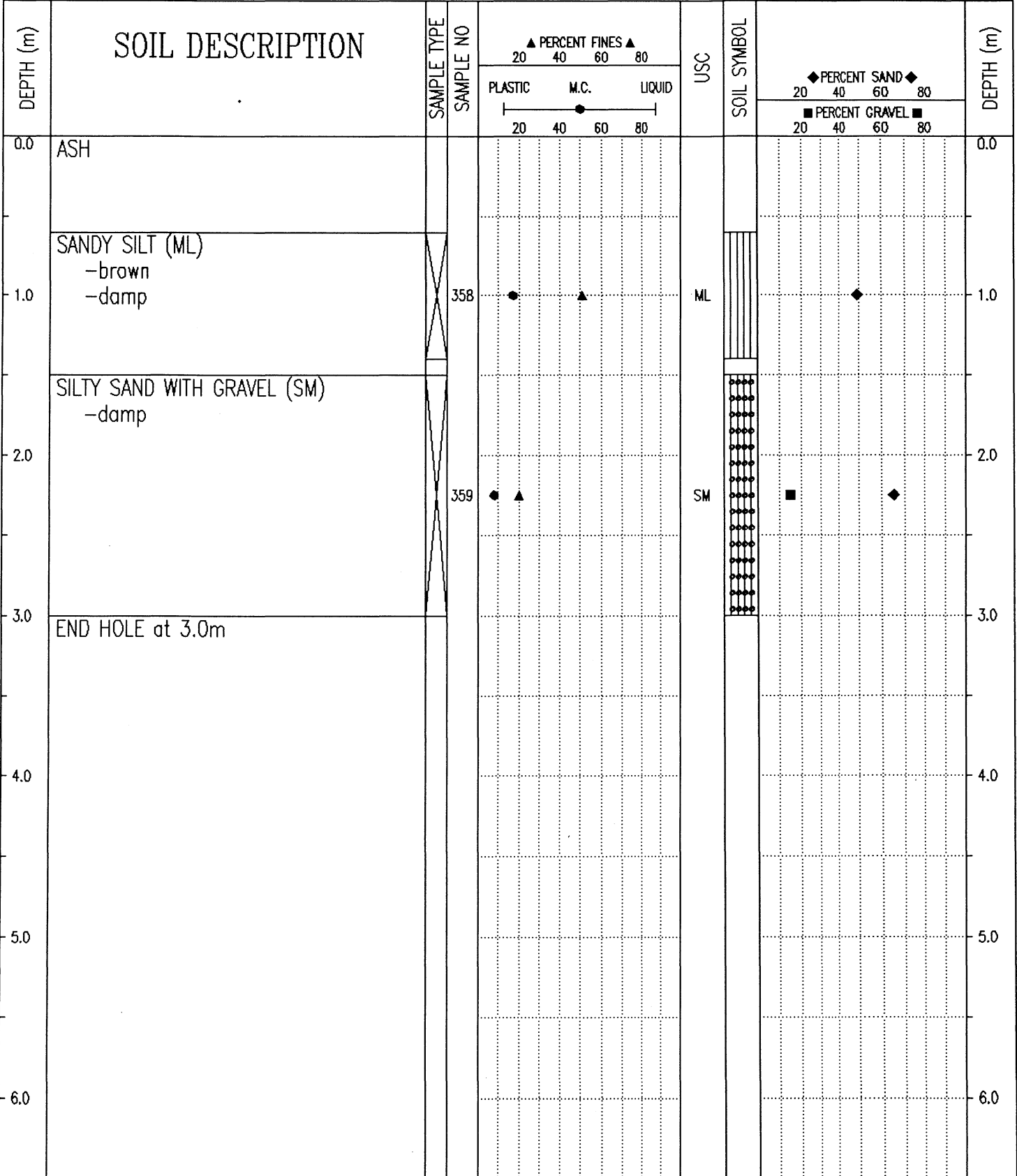


Government of Yukon  
Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/10/05

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-288
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+300 o/s 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



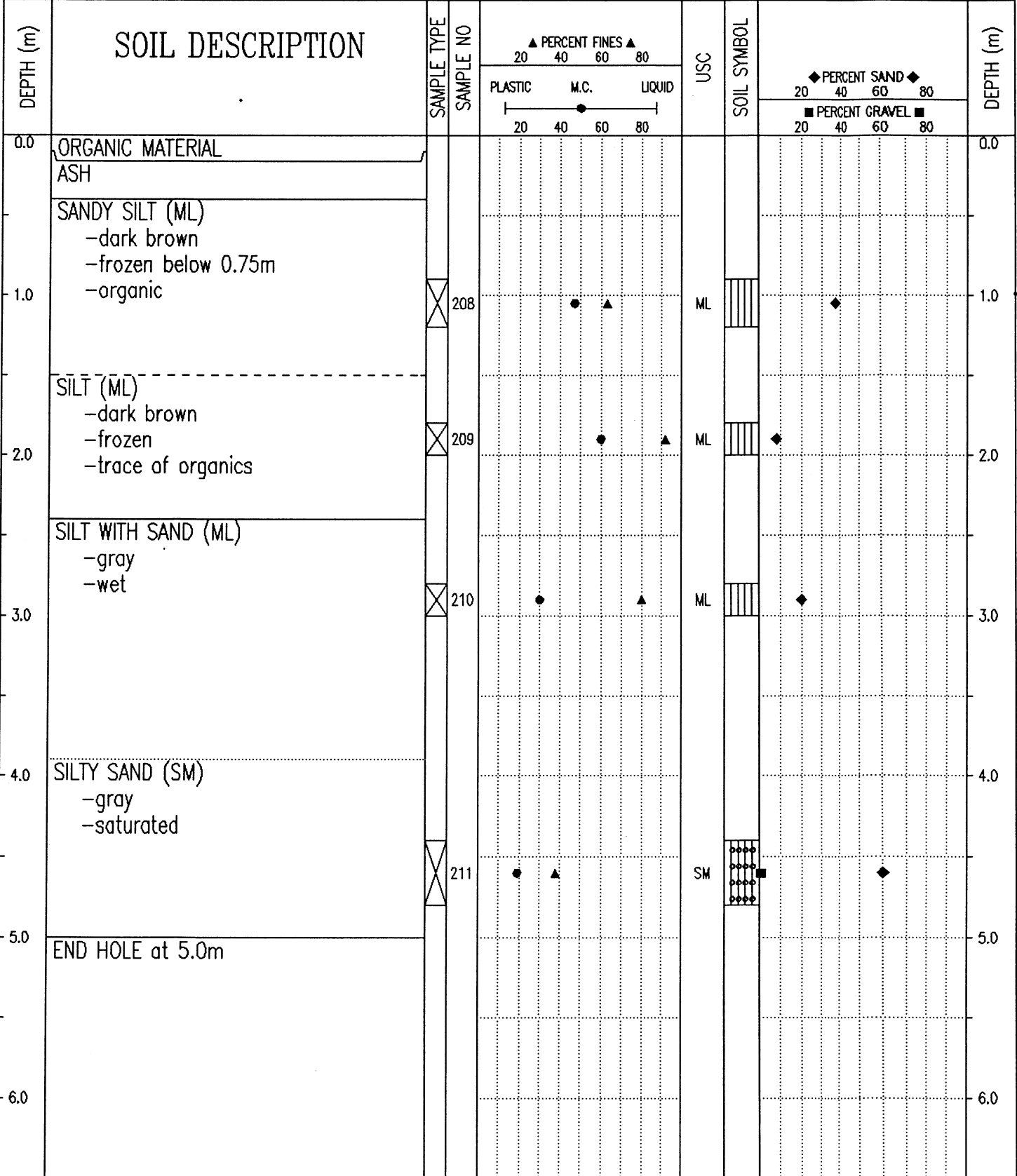
Government of Yukon  
Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/05

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-63
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

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

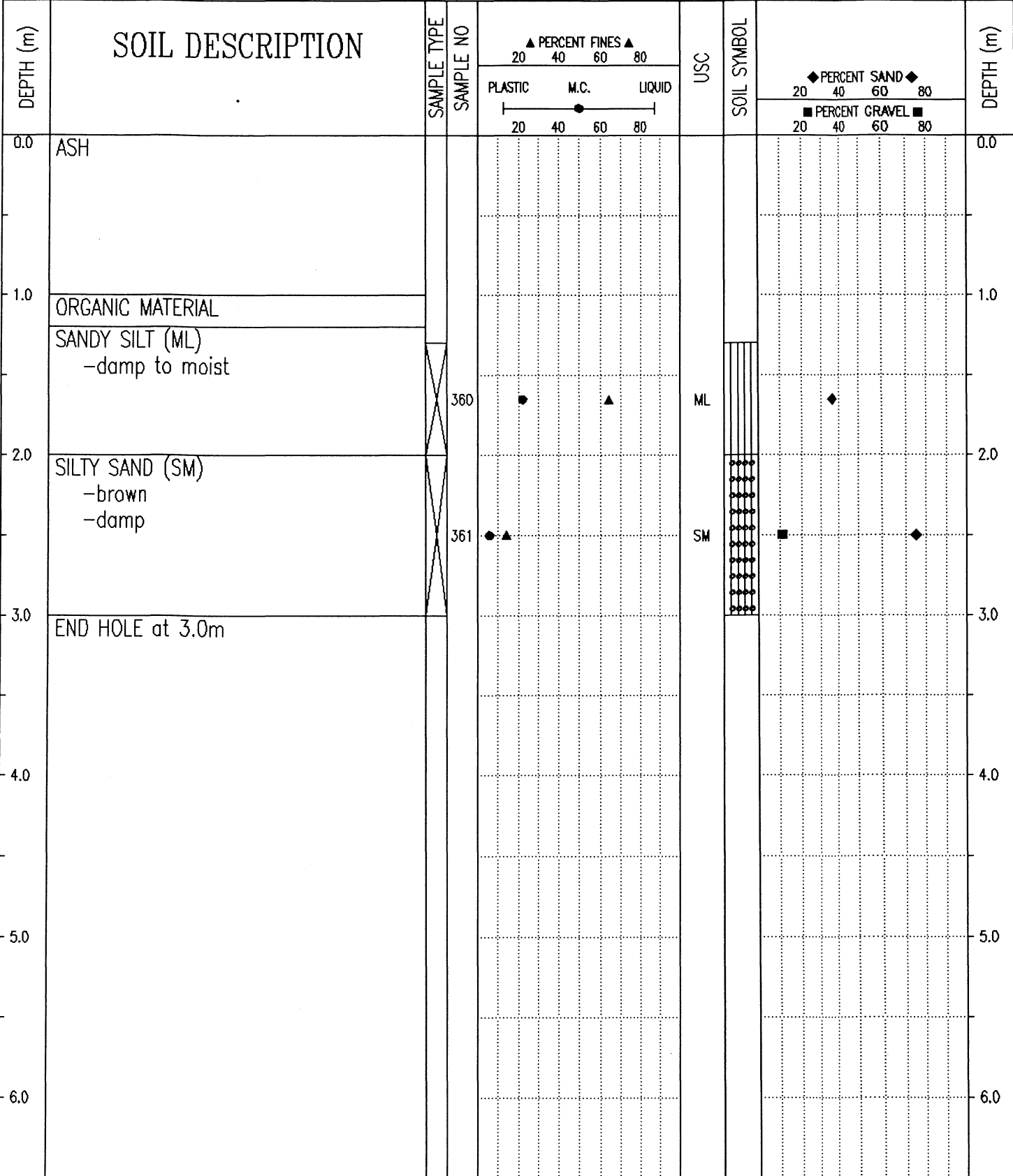


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Transportation Engineering

LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/21
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-289
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+400 o/s 5m Lt.	ELEVATION: 0.00 (m)

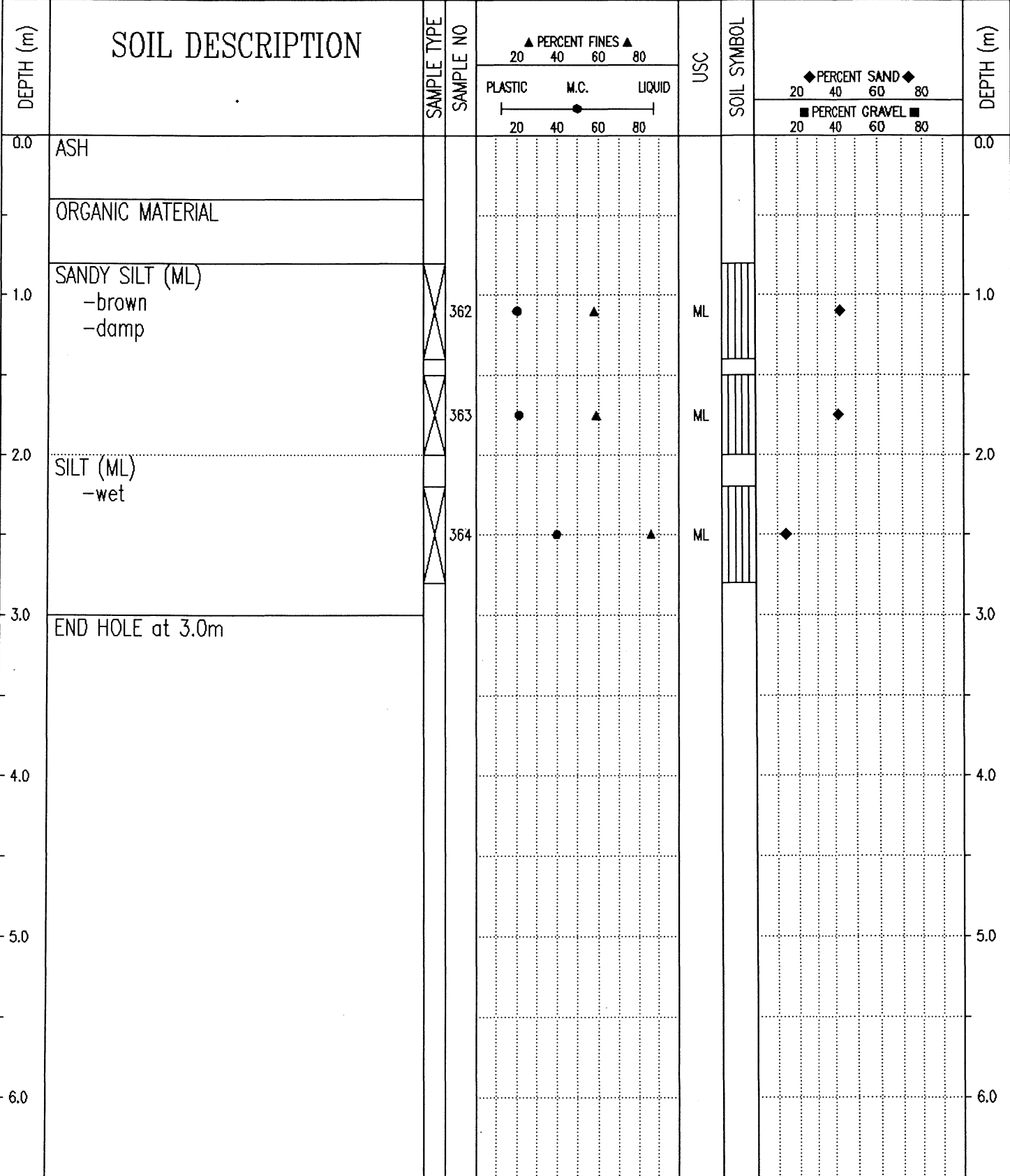
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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	REVIEWED BY:	COMPLETE: 93/10/05
	Fig. No:	Page 1 of 1

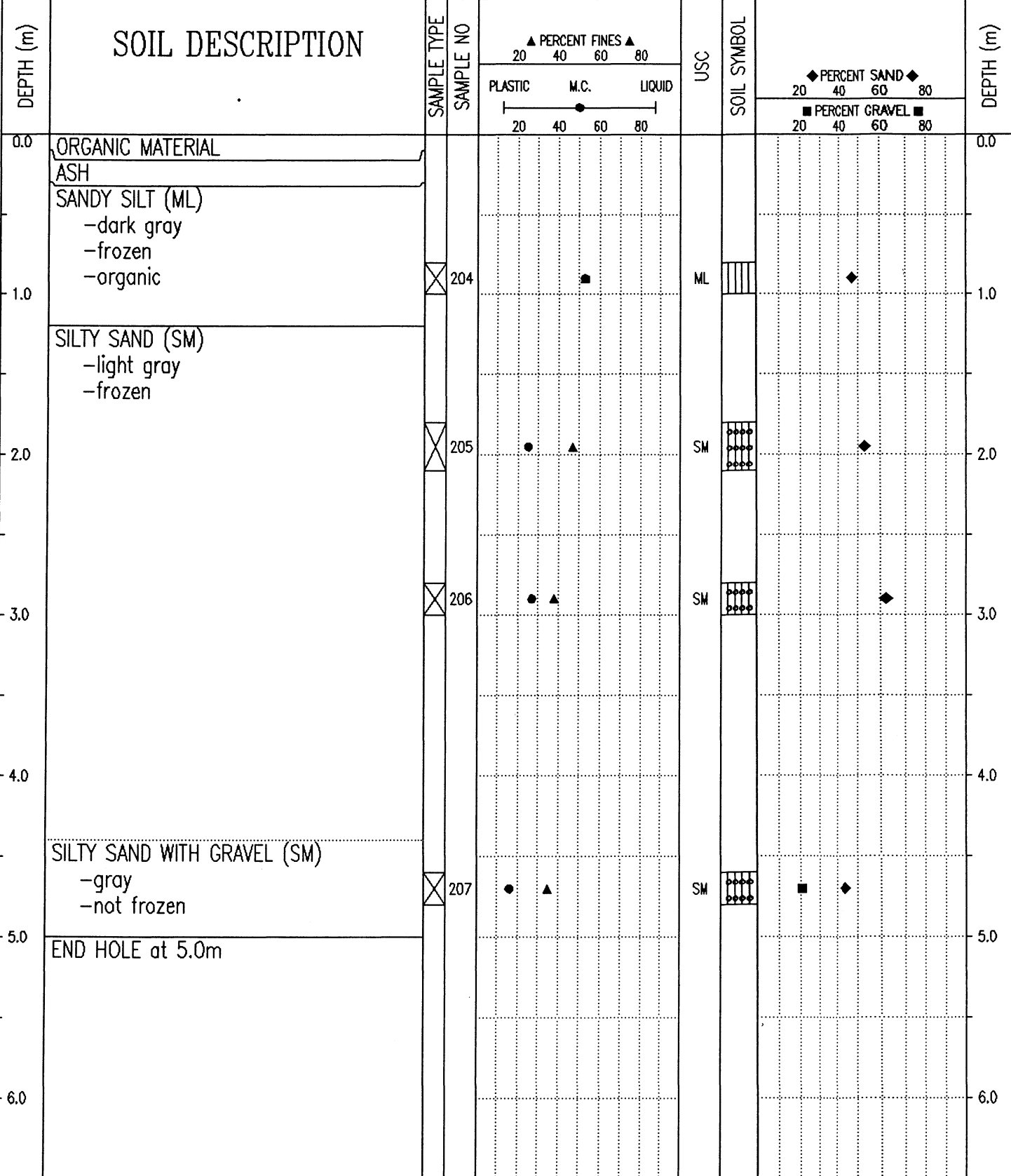
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-290
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+500 o/s 5m Lt.	ELEVATION: 0.00 (m)

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

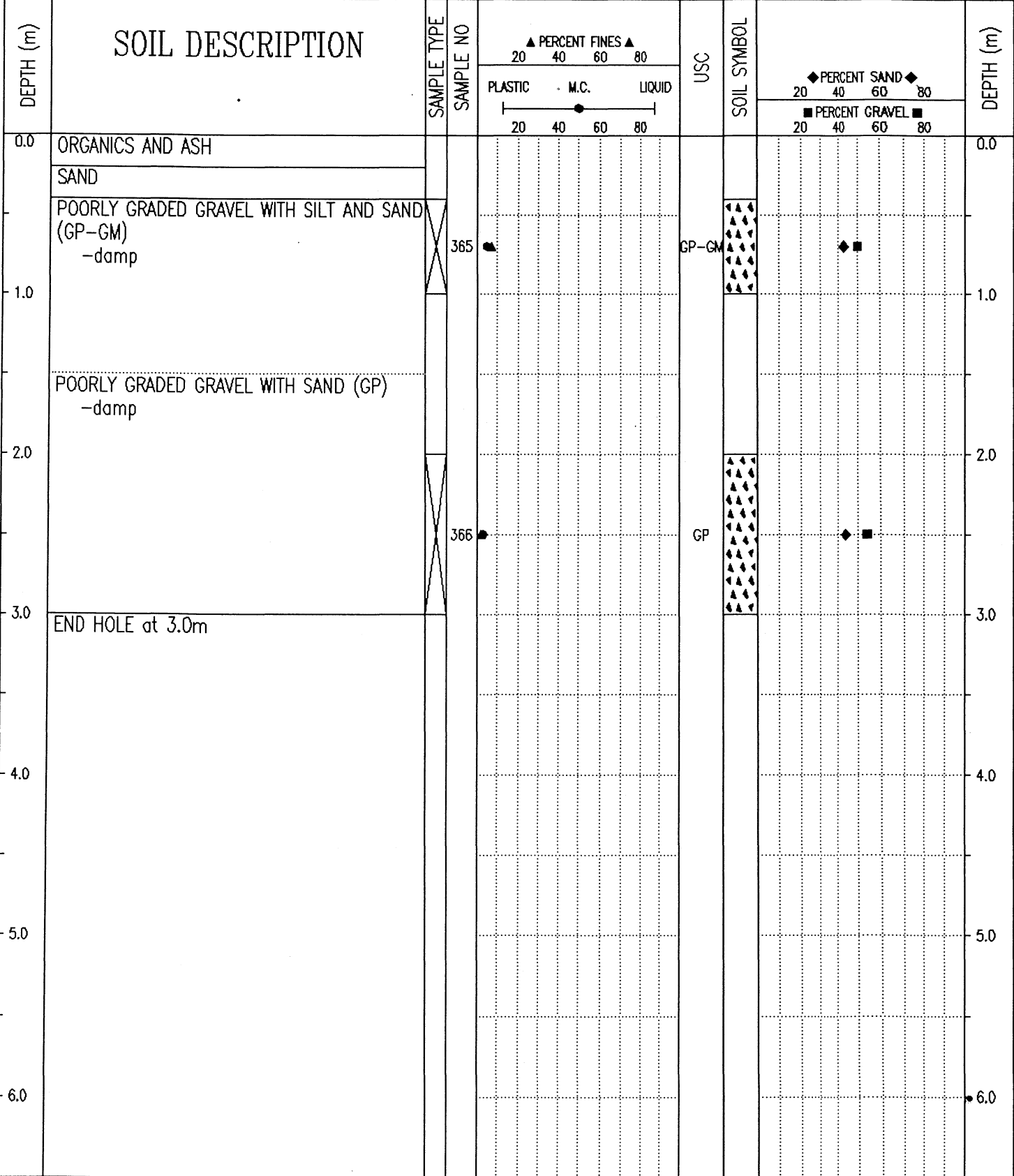


Government of Yukon Transportation Engineering	LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 93/10/05
	Fig. No:	Page 1 of 1

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



SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-291
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+600 o/s 10m 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



94/01/19 02:19PM

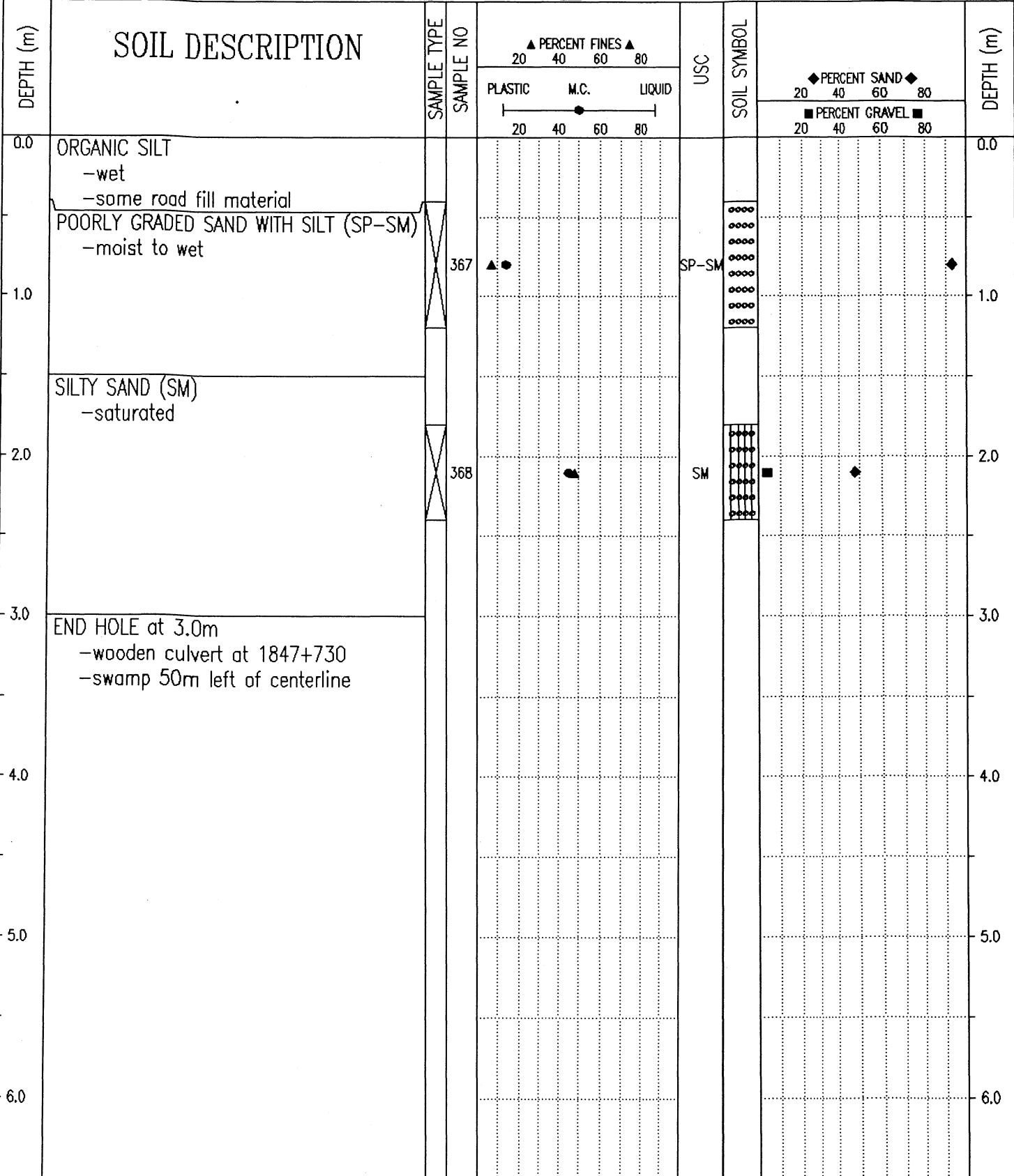
SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 304-61											
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311											
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		ELEVATION: 0.00 (m)											
SAMPLE TYPE		RETURN	S.P.T.	AUGER	BULK	TUBE	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	80	20	40	
0.0	ORGANIC MATERIAL ASH													0.0	
1.0	SILT WITH SAND (ML) -dark gray -frozen	X	200	40	50	70	ML		60					1.0	
2.0	-organic below 1.9m	X	201			70	ML			60				2.0	
3.0	SILTY SAND (SM) -dark gray -frozen	X	202	40	45	60	SM					60		3.0	
5.0	-reddy brown below 4.6m -organic below 4.6m	X	203	40	50	60	SM					60		5.0	
5.0	END HOLE at 5.0m													5.0	
6.0														6.0	

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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/21

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-293
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+700 o/s 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		

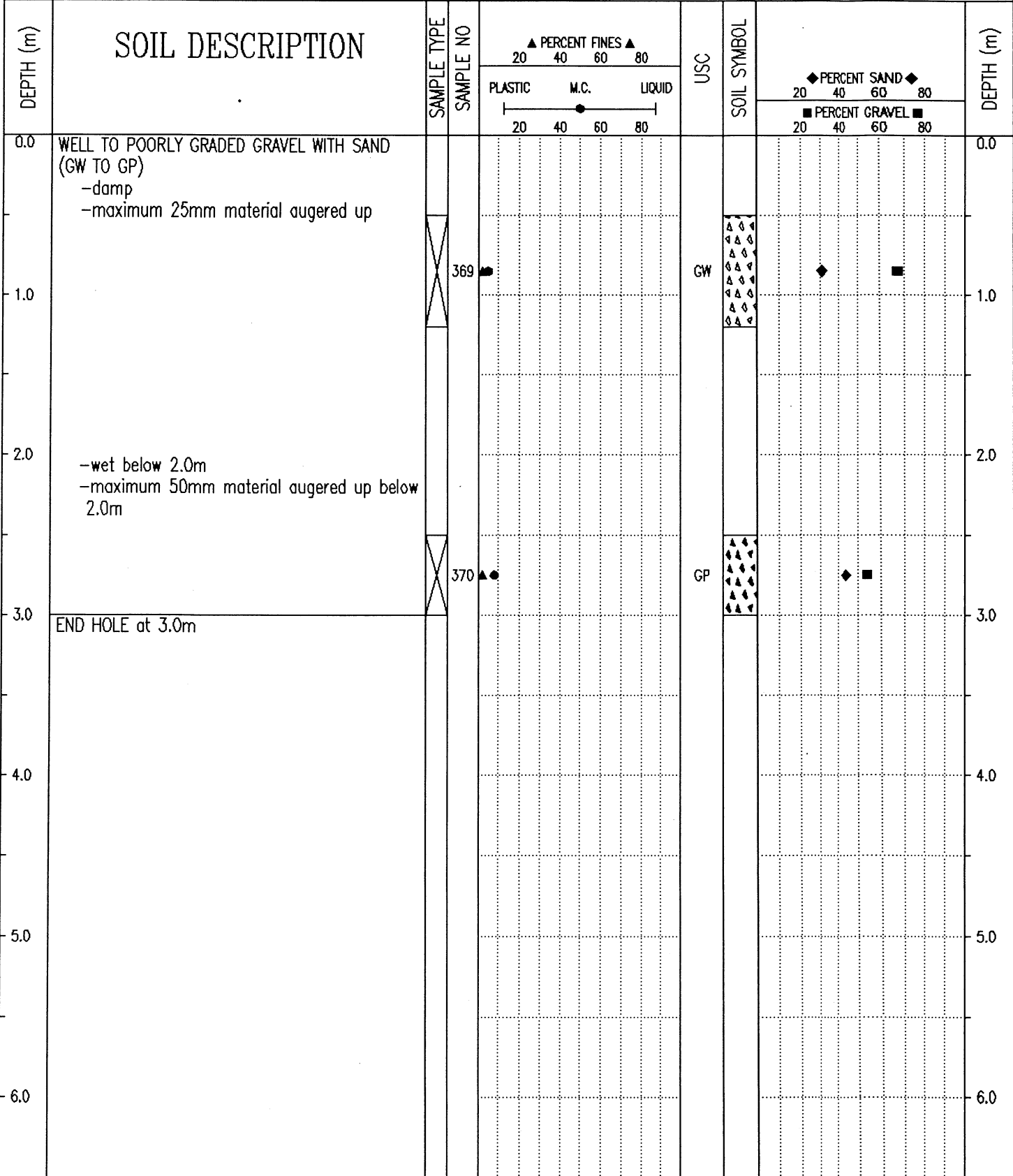


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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-294
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+800 o/s 5m Lt.	ELEVATION: 0.00 (m)

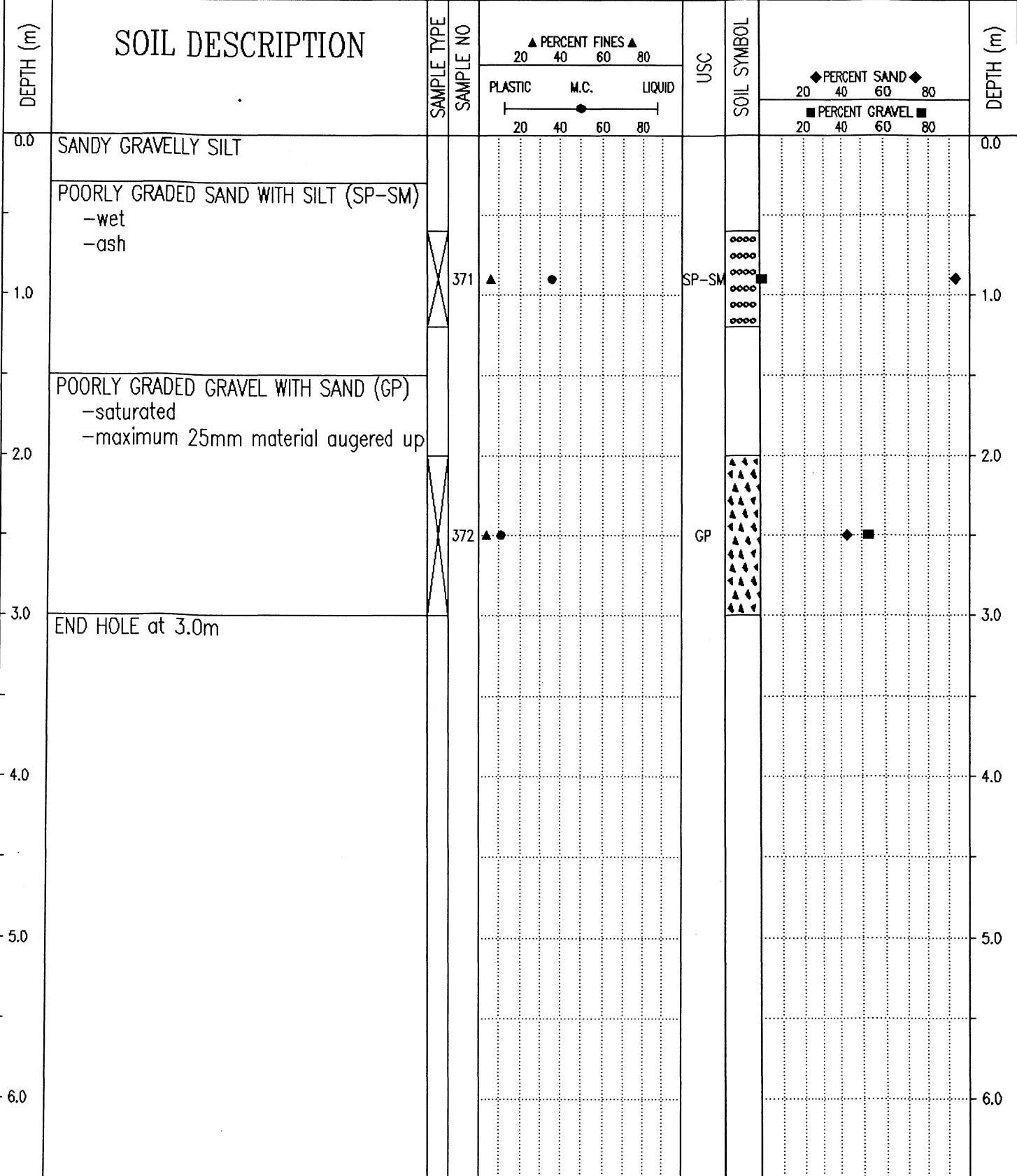
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

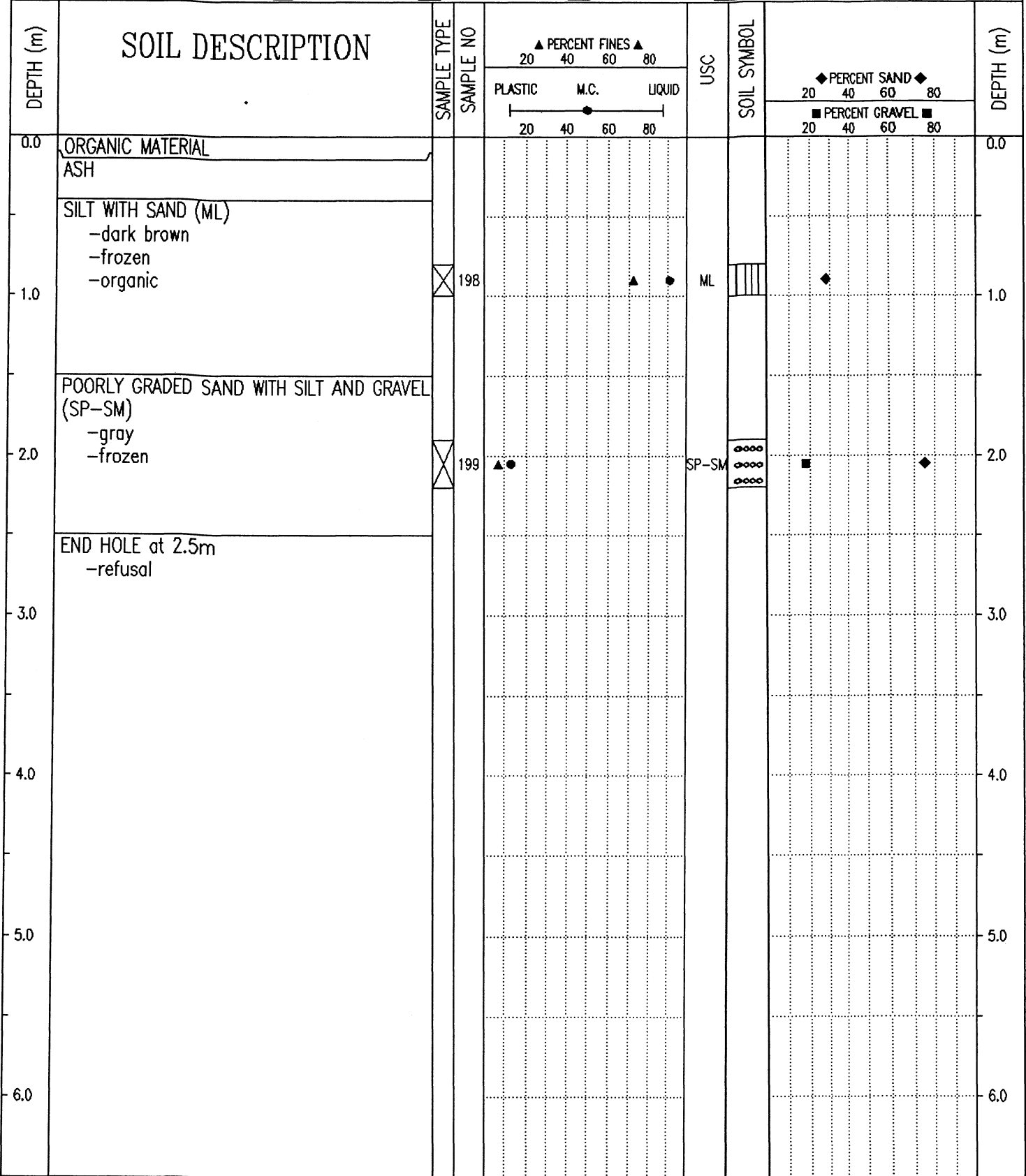
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-295
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-Q311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1847+900 o/s 5m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input 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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LOGGED BY: GC  
 REVIEWED BY:  
 Fig. No:  
 COMPLETION DEPTH: 3.0 m  
 COMPLETE: 93/10/05  
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-60
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	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		



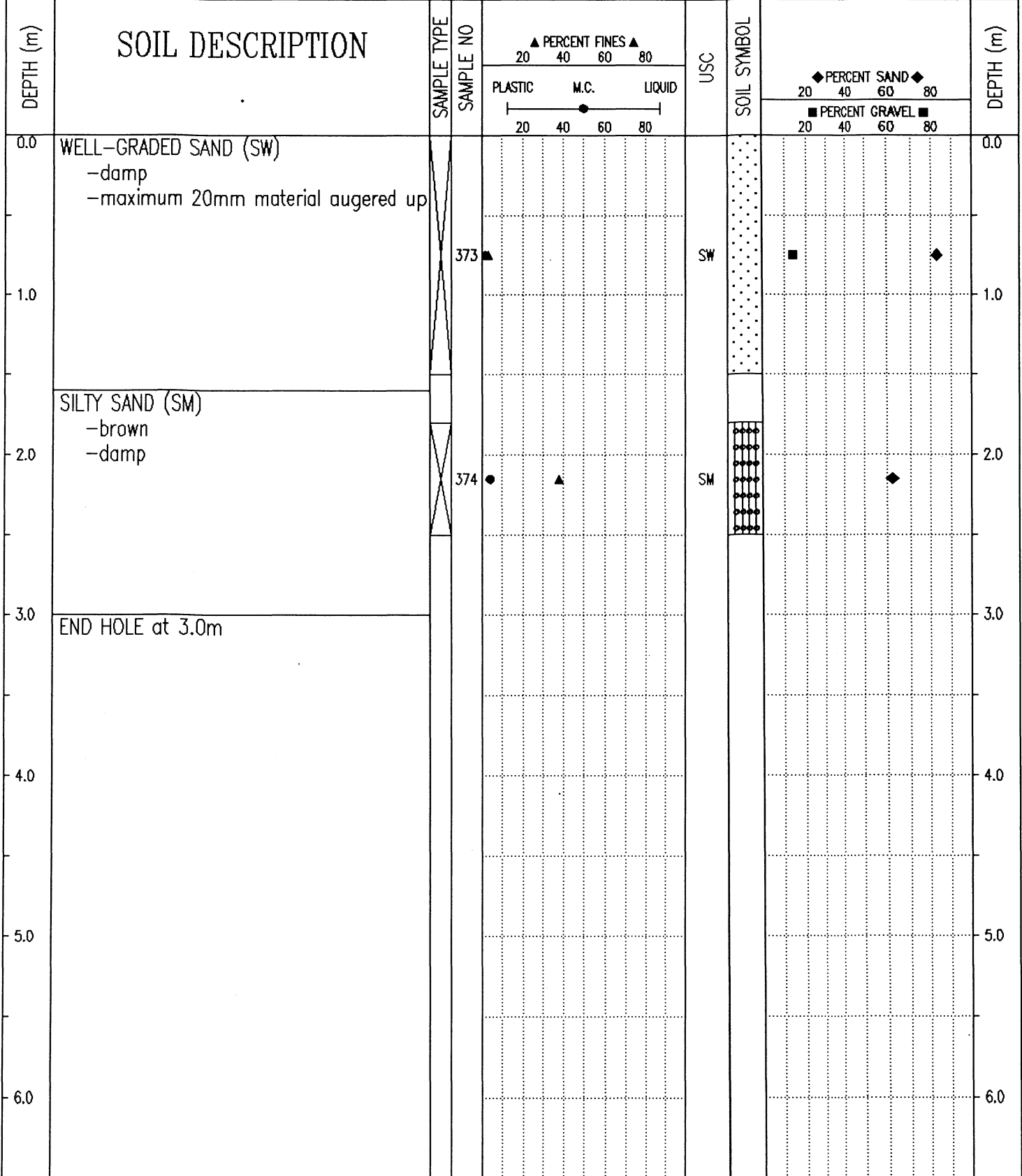
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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 2.5 m  
COMPLETE: 94/07/21

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-296
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1848+050 o/s 5m Lt.	ELEVATION: 0.00 (m)

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



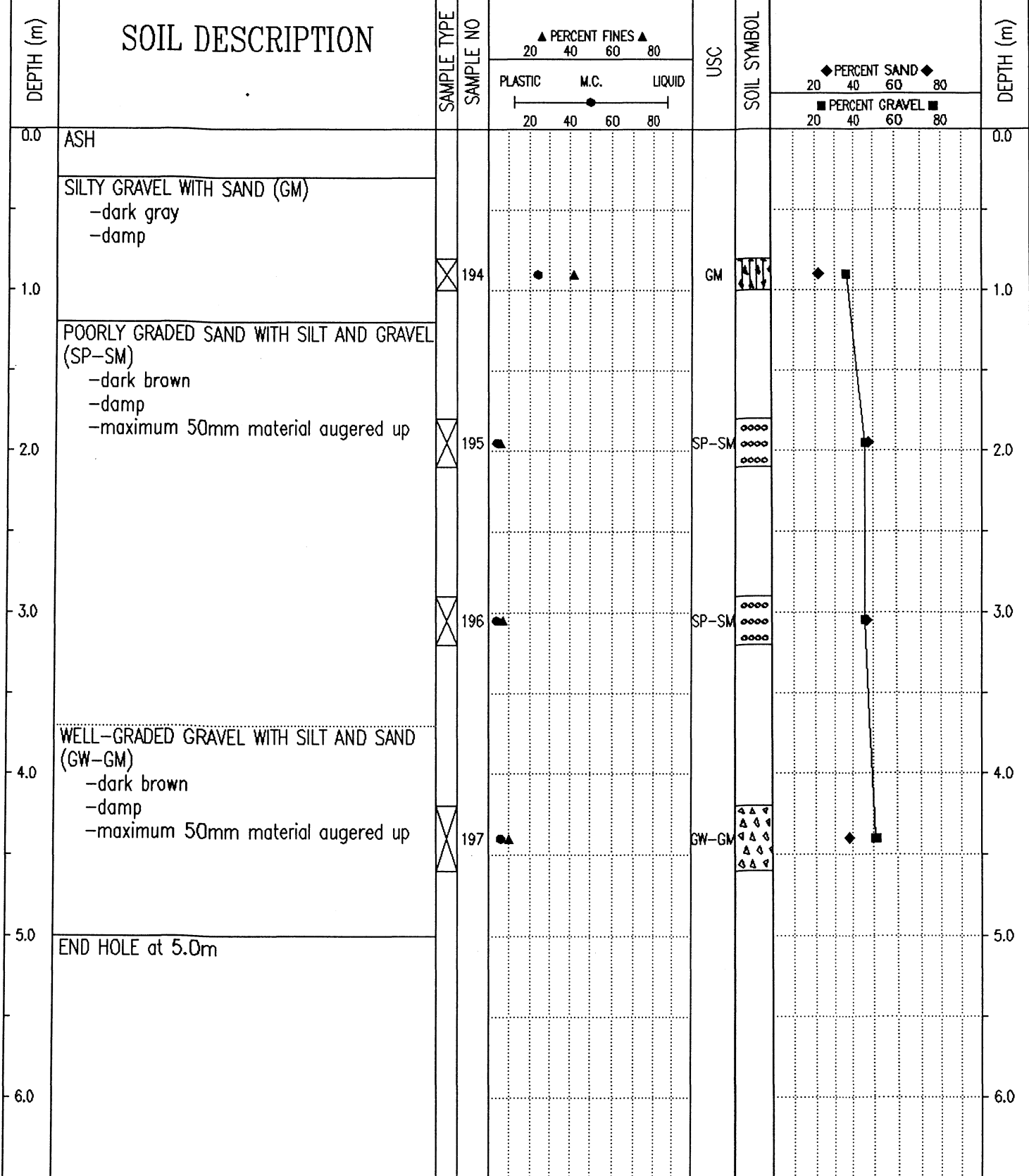
Government of Yukon  
Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/05

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-59
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

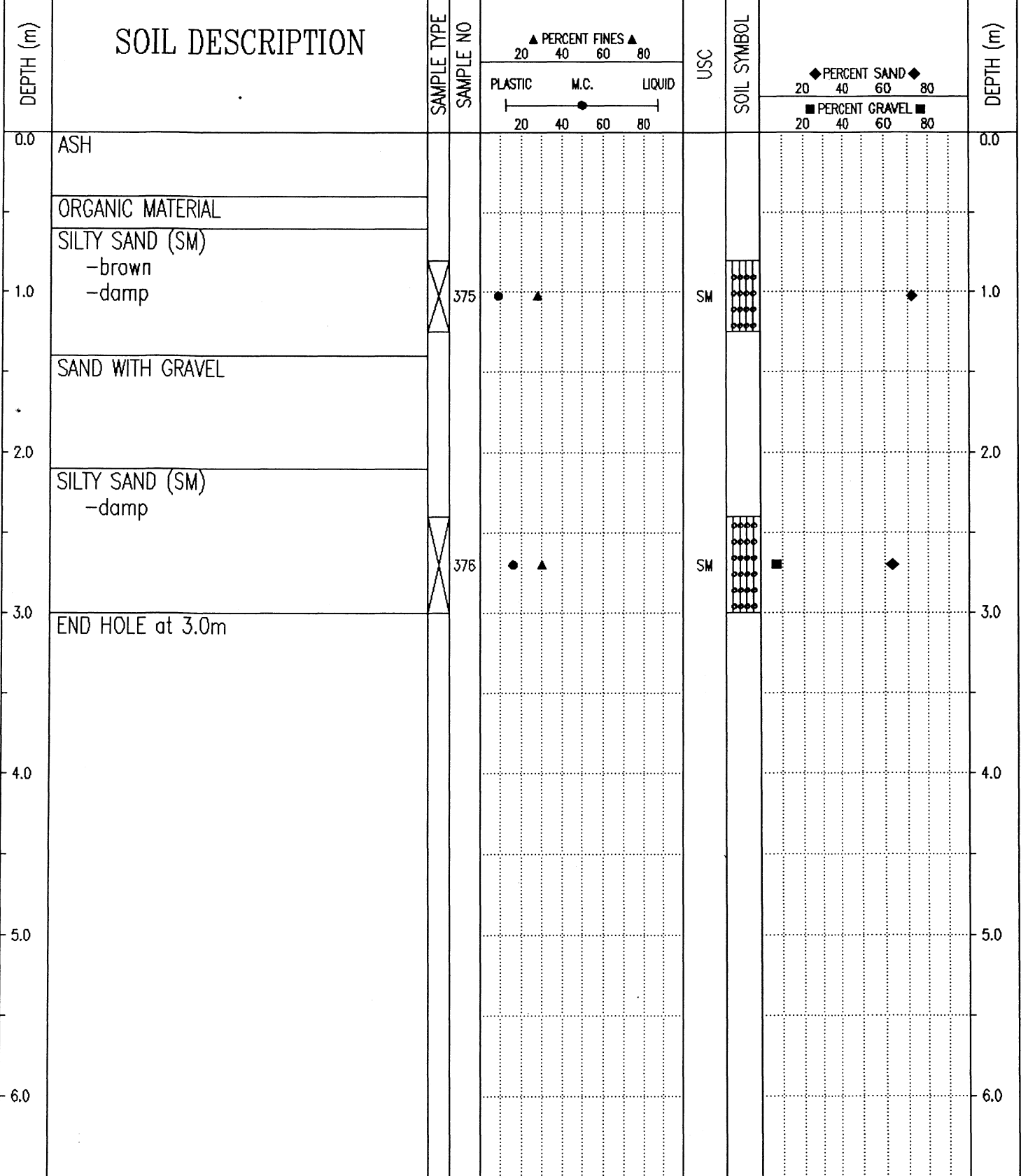
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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LOGGED BY: DA  
REVIEWED BY:  
Fig. No:  
COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/21  
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 261-297
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1848+150 o/s 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		

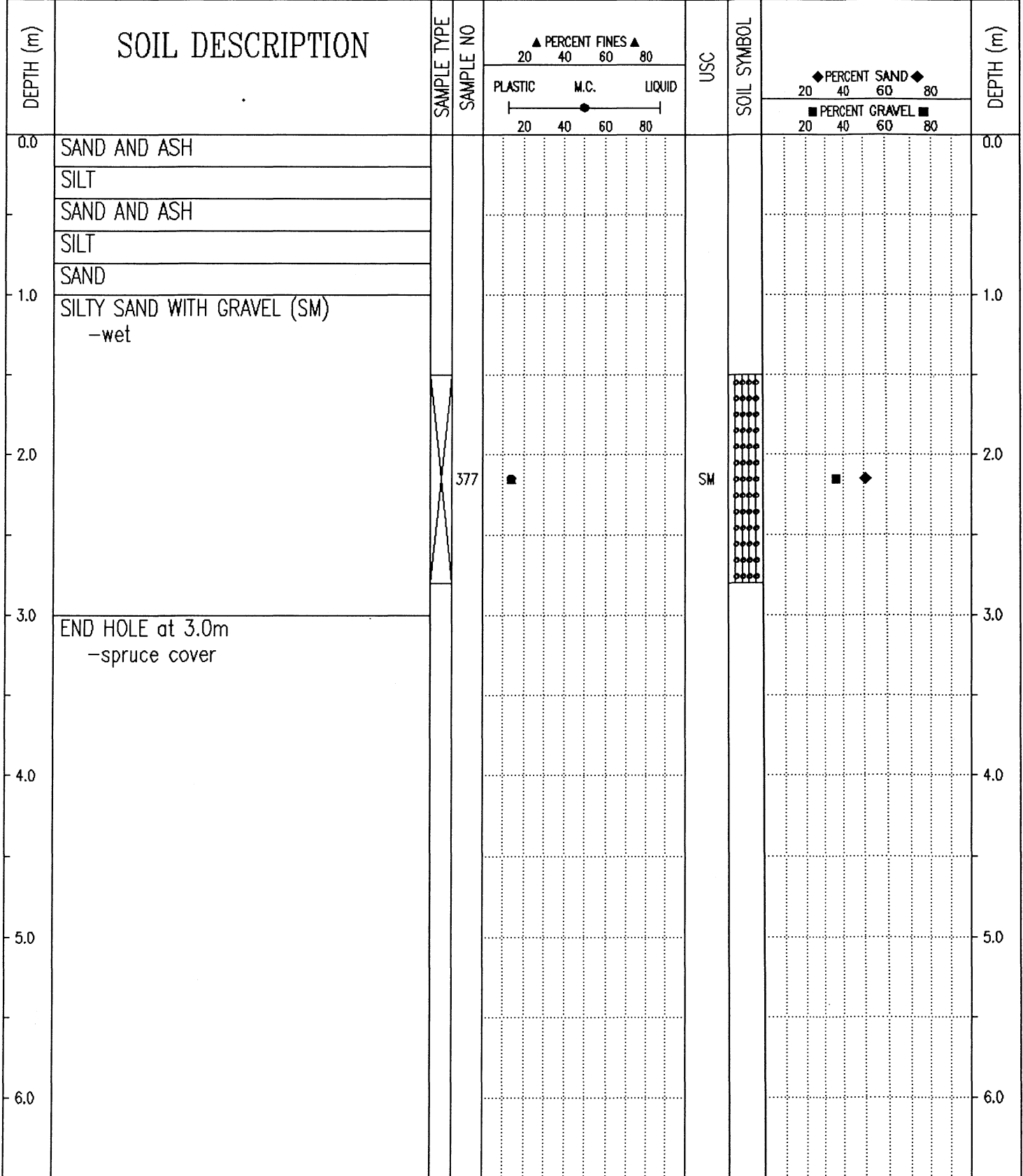


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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-298
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1848+250 o/s 5m Lt.	ELEVATION: 0.00 (m)

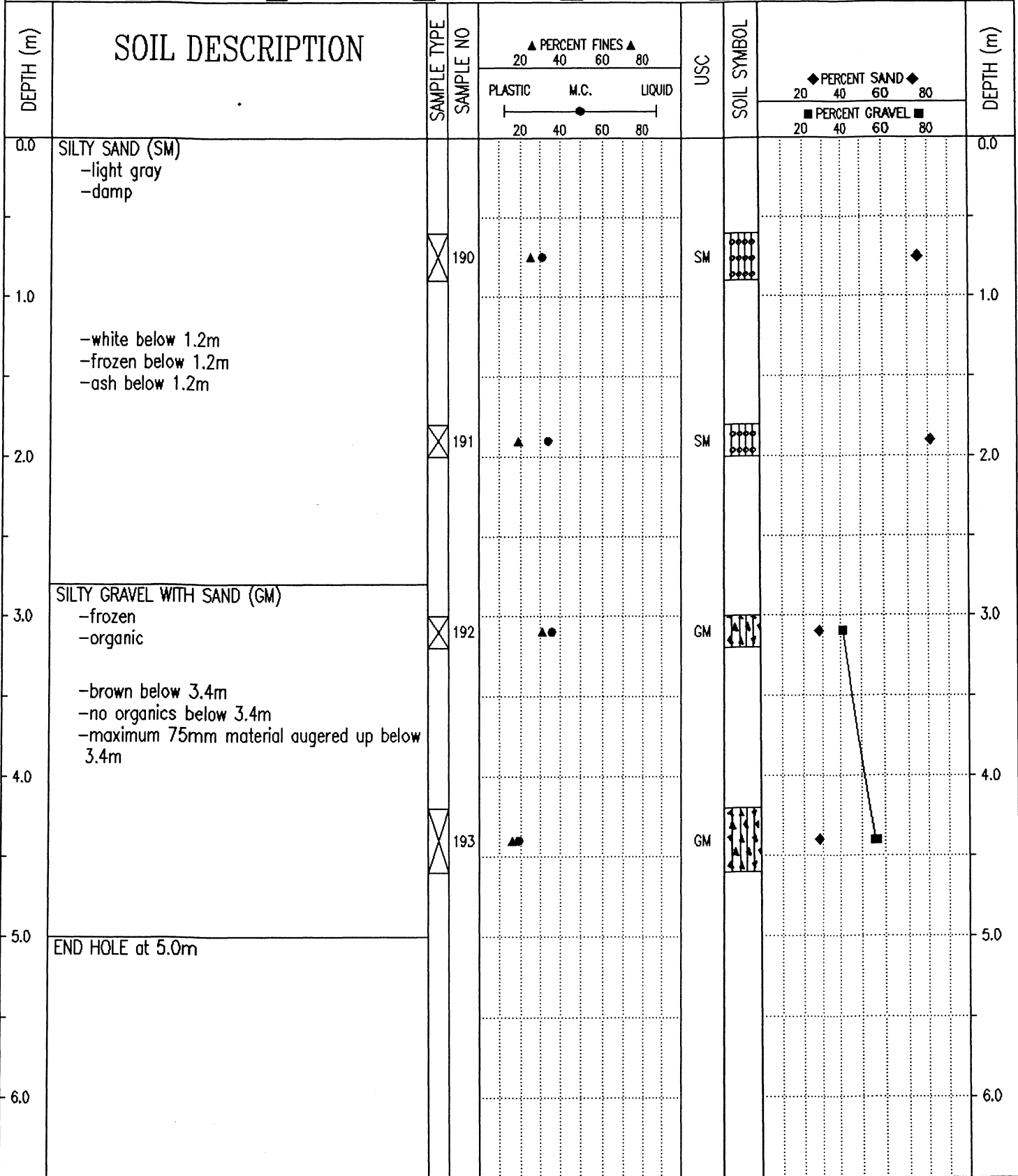
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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Transportation Engineering

LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

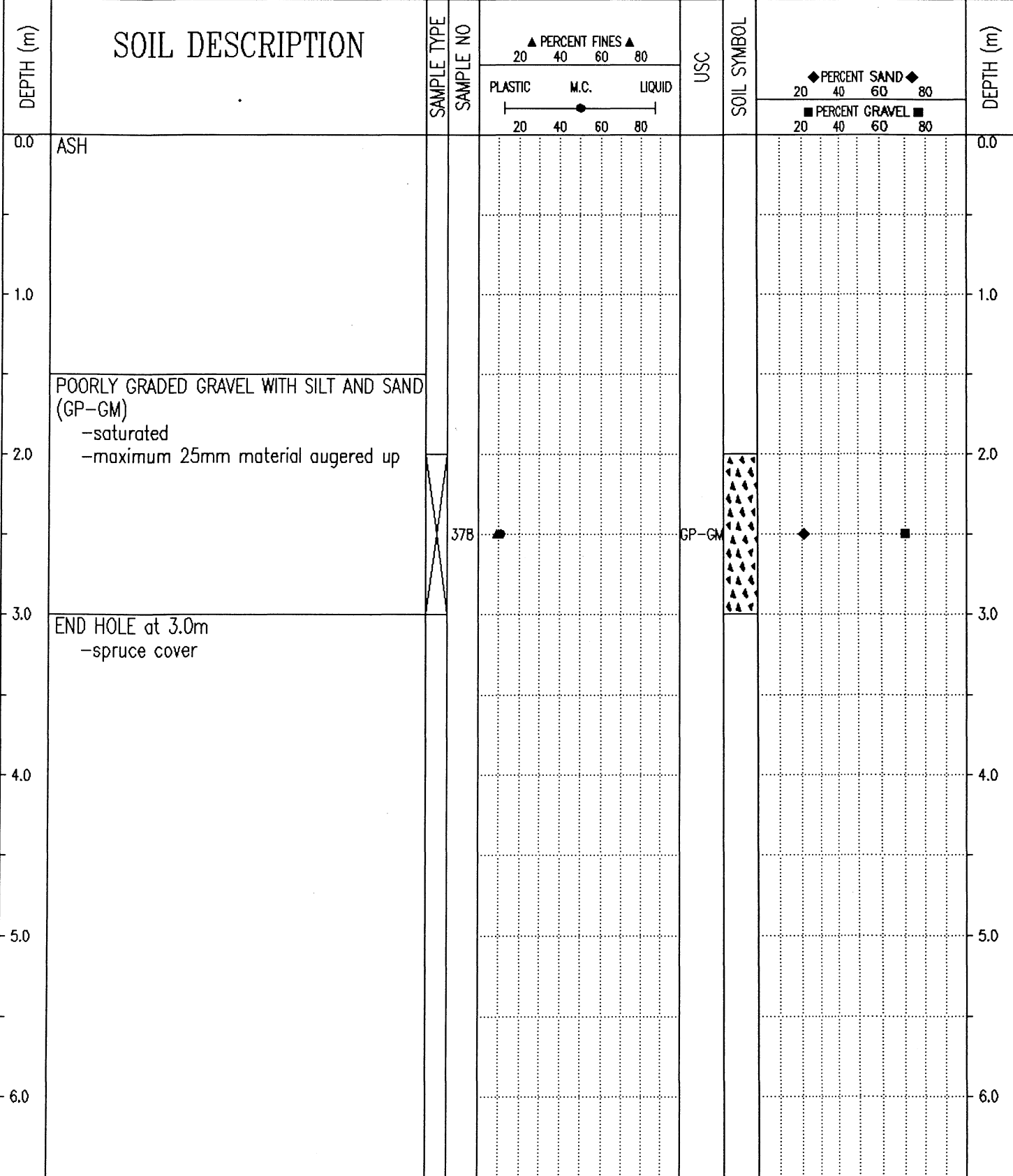
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-58
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
	REVIEWED BY:	COMPLETE: 94/07/21
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-299
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1848+350 o/s 5m Lt.	ELEVATION: 0.00 (m)

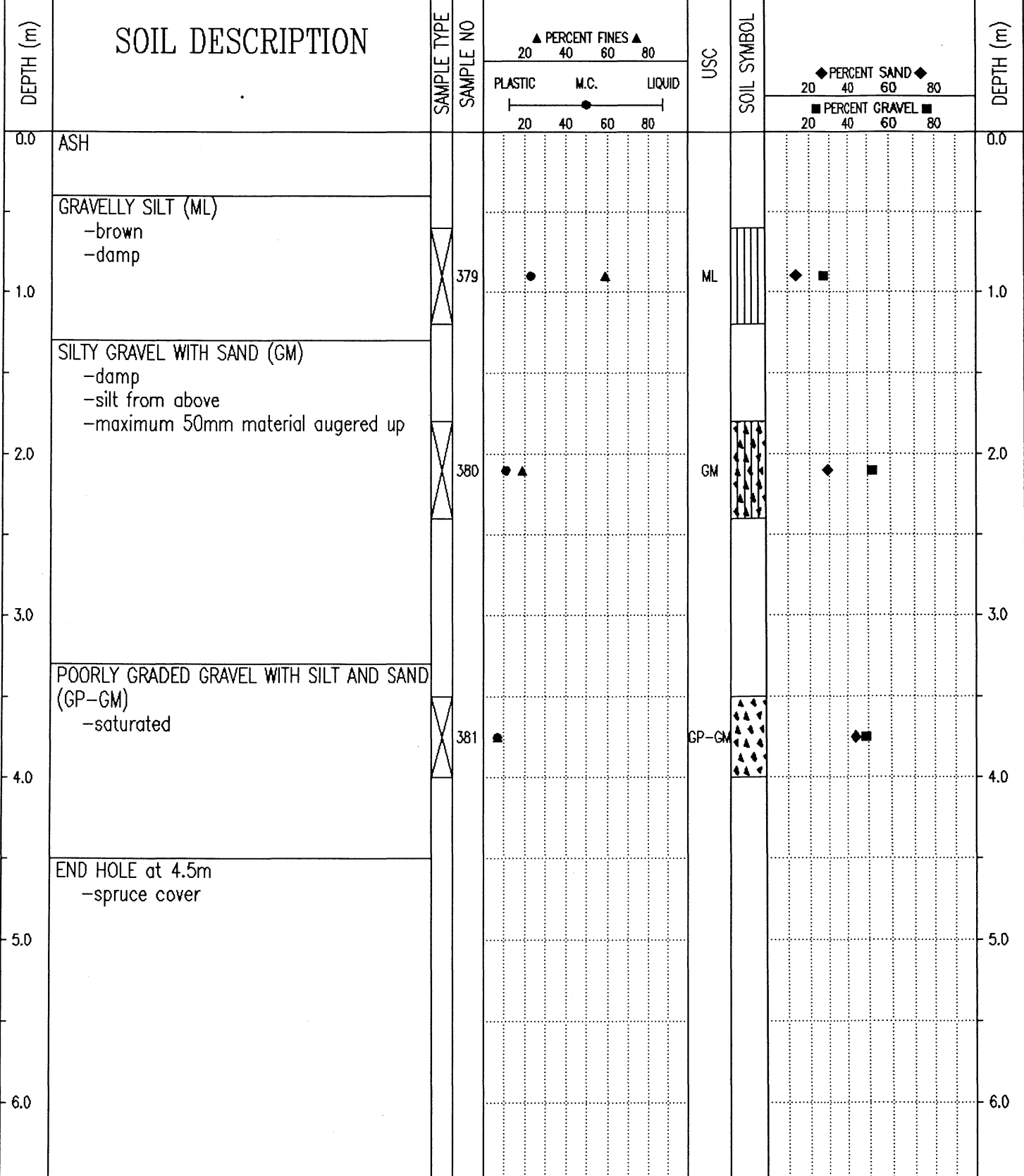
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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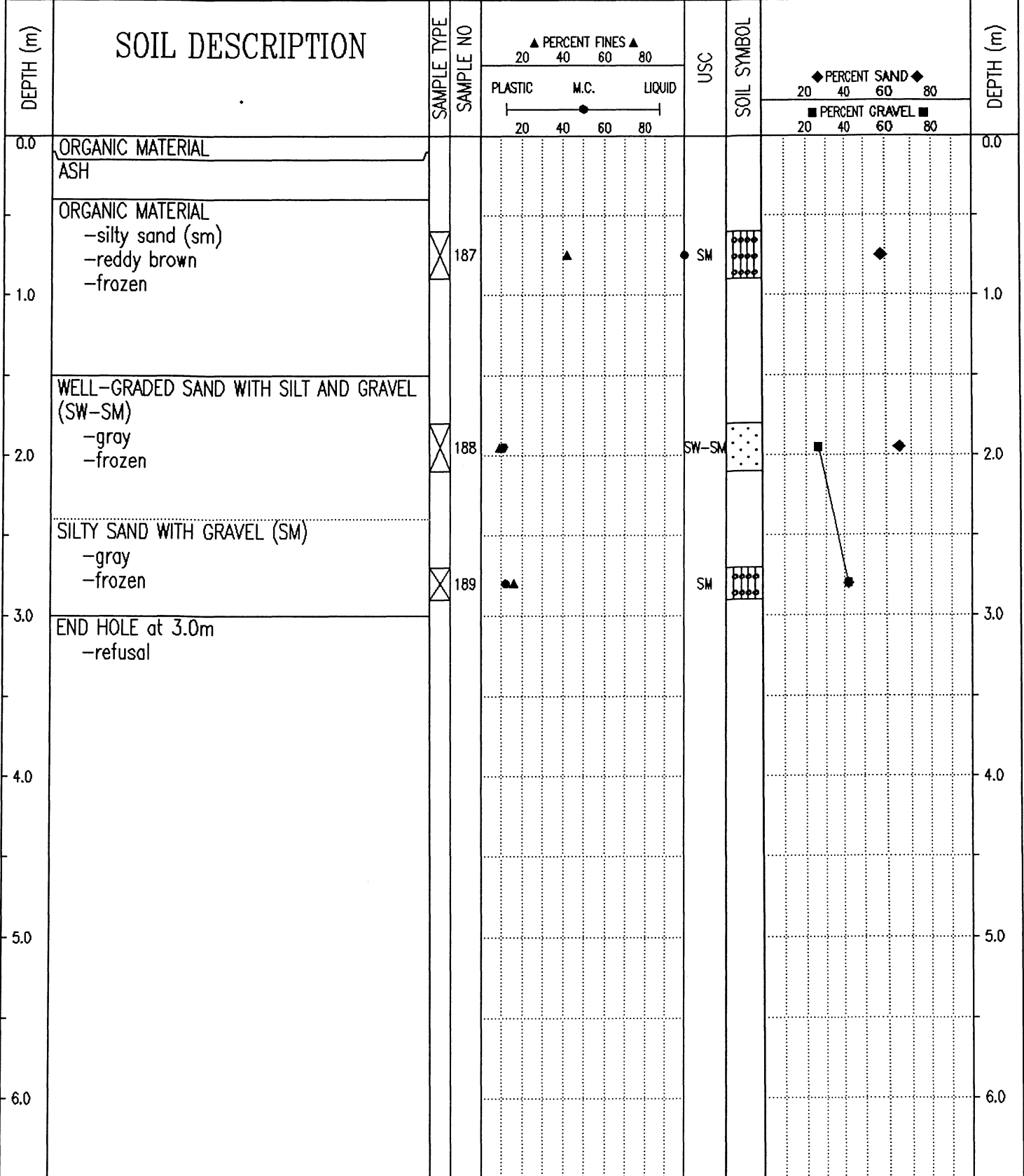
LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

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



94/01/19 04:24PM

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



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Transportation Engineering

LOGGED BY: DA

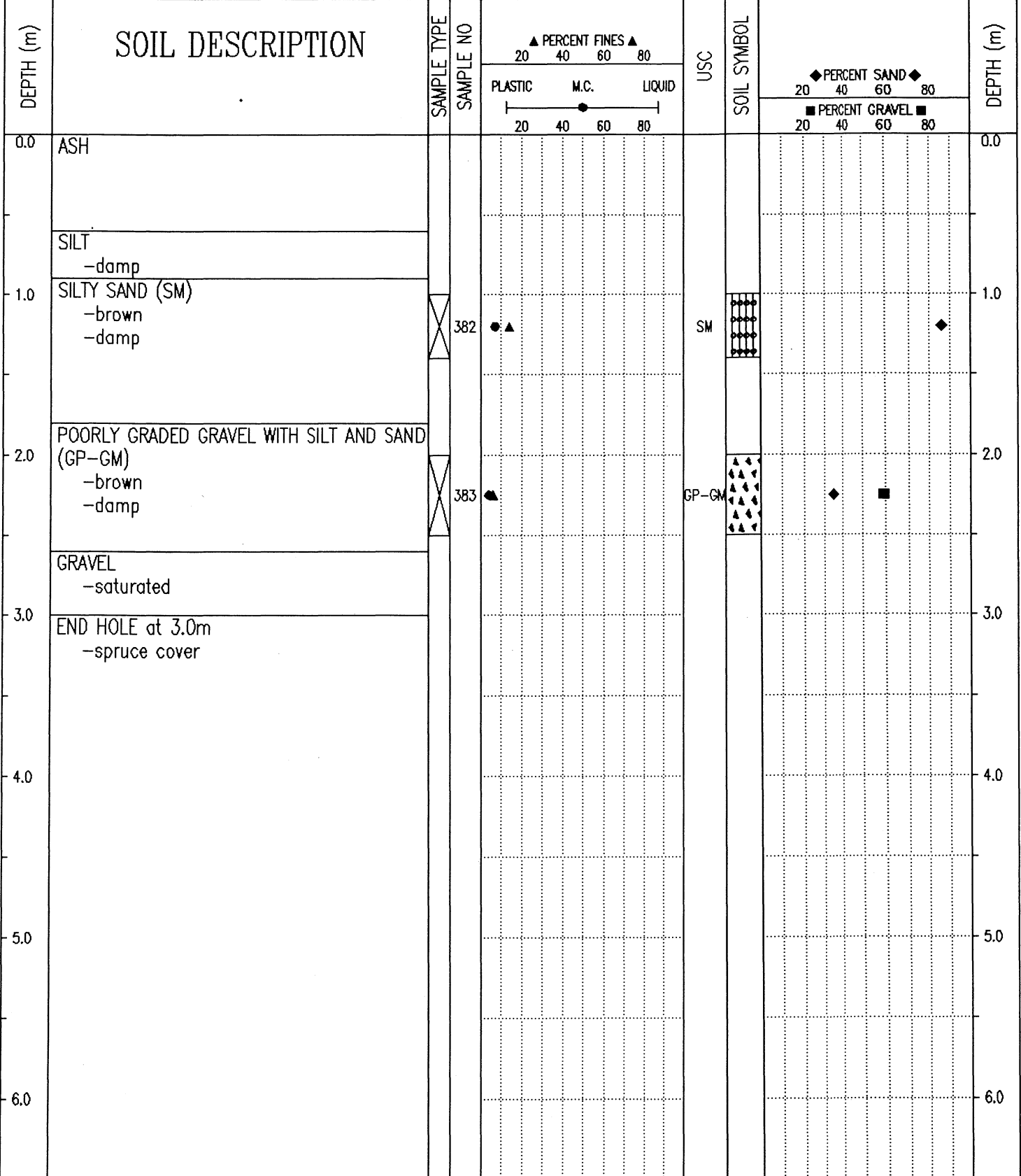
REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 3.0 m

COMPLETE: 94/07/21

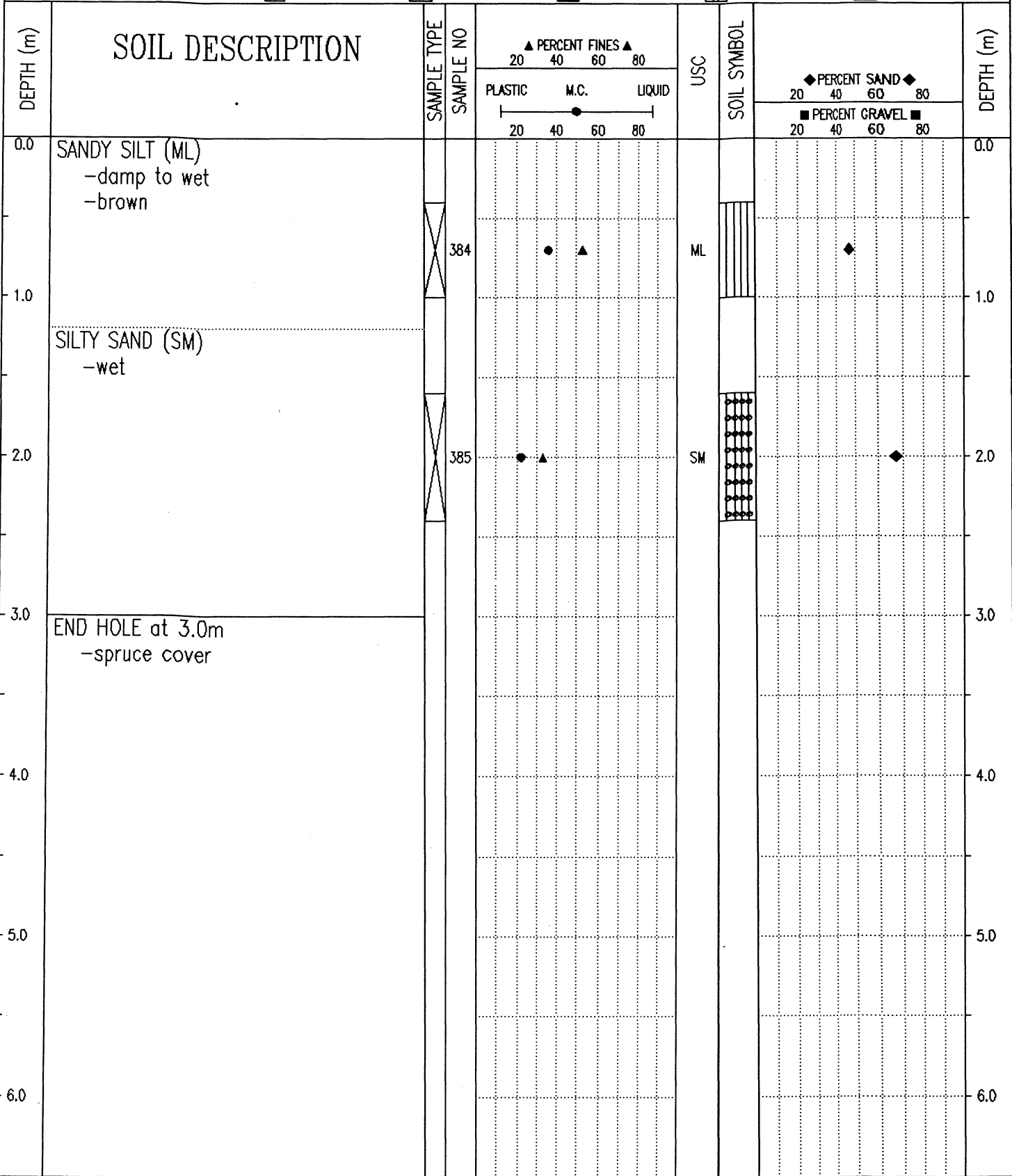
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-301
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1848+550 o/s 5m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-302
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1848+650 o/s 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		

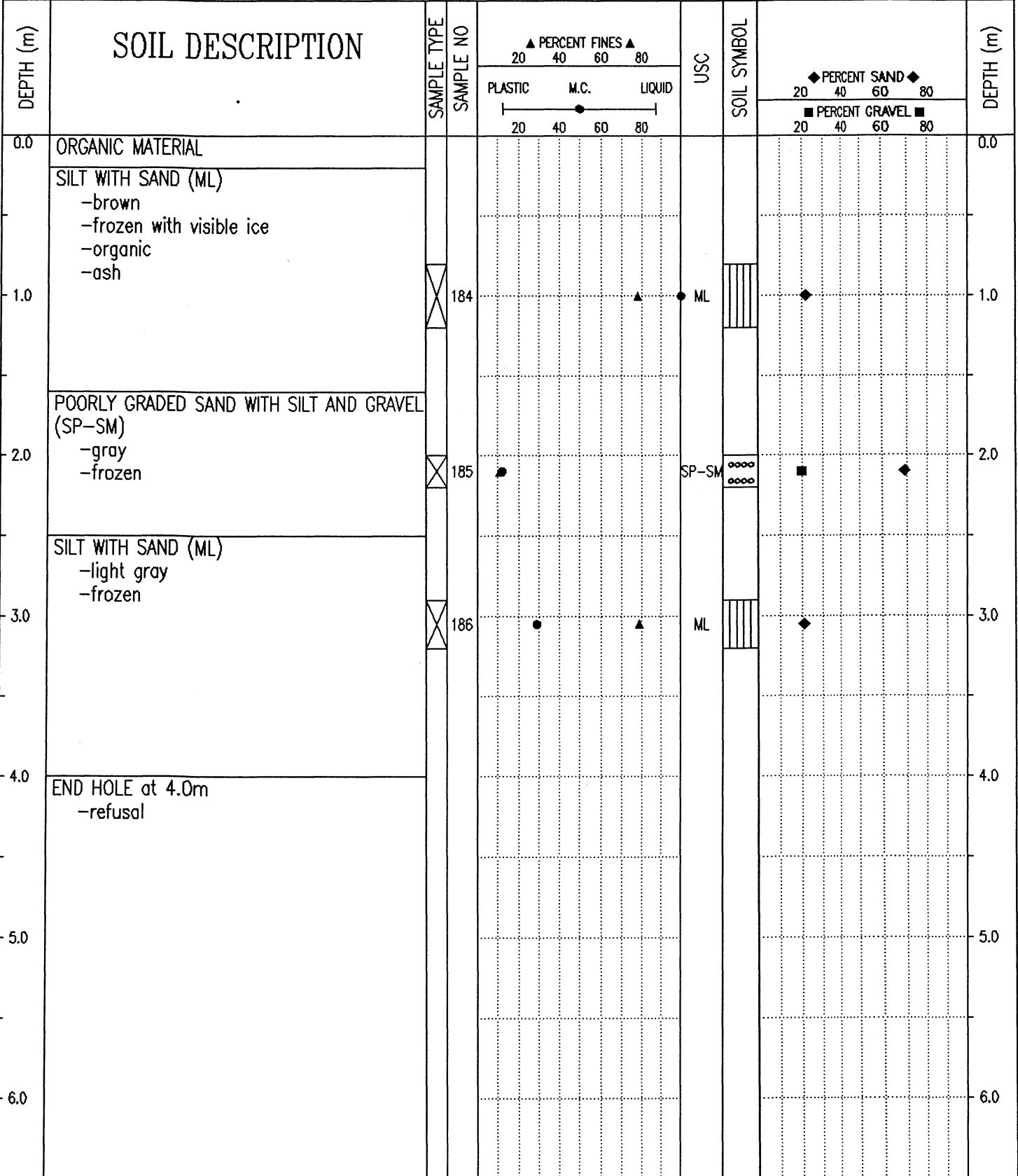


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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-56
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

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



Government of Yukon Transportation Engineering	LOGGED BY: DA	COMPLETION DEPTH: 4.0 m
	REVIEWED BY:	COMPLETE: 94/07/21
	Fig. No:	Page 1 of 1

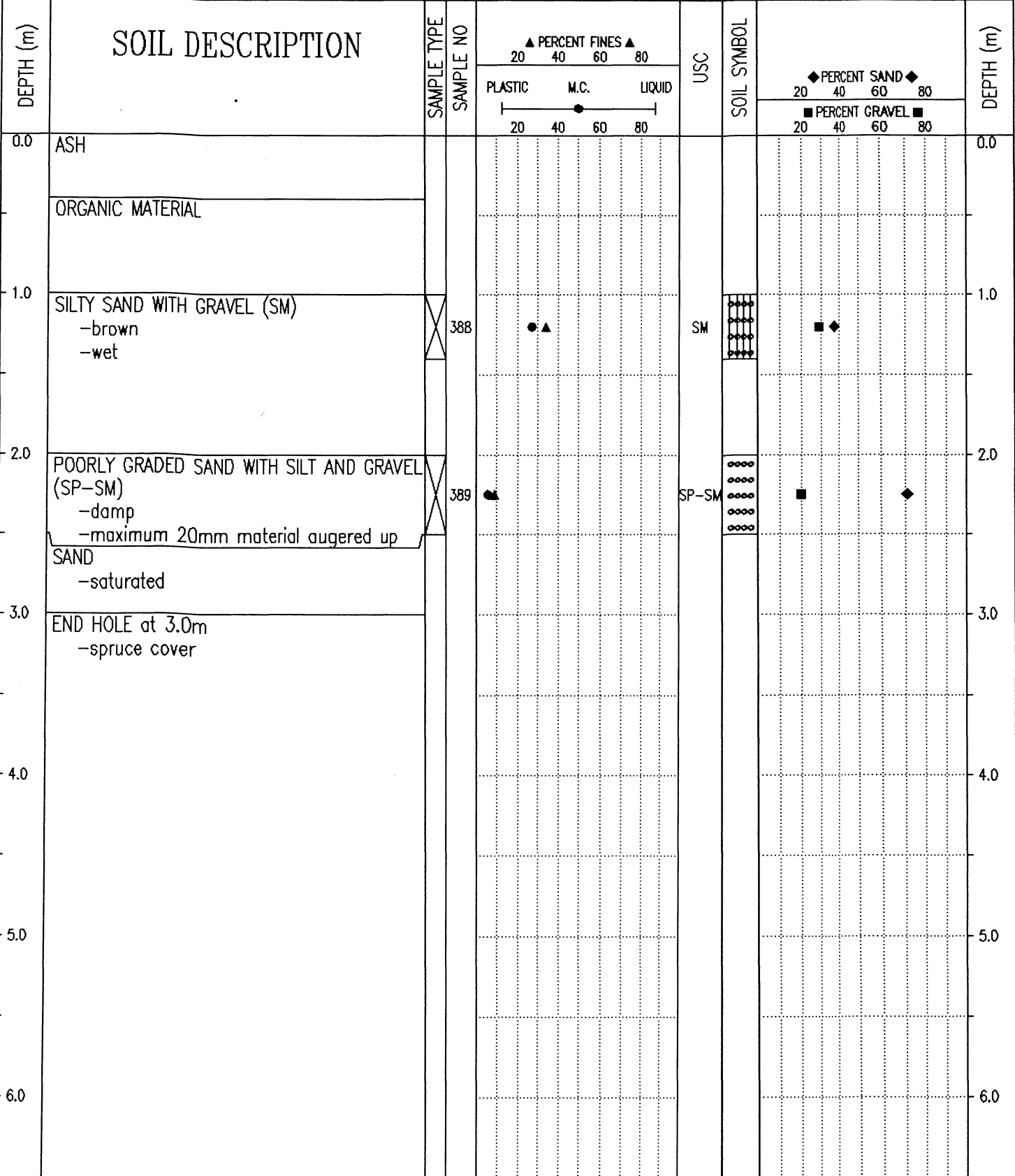
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-303
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1848+750 o/s 8m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input 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 ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	ASH													0.0	
1.0	ORGANIC MATERIAL													1.0	
1.5	SILT WITH SAND (ML) -brown -moist	<input checked="" type="checkbox"/>	386	45	55	75	ML	◆							
2.5	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -damp -maximum 50mm material augered up	<input checked="" type="checkbox"/>	387	15	25	45	SP-SM		◆	■					
3.0	END HOLE at 3.0m -spruce cover													3.0	
4.0														4.0	
5.0														5.0	
6.0														6.0	

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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

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



Government of Yukon  
Transportation Engineering

LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/05
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 304-55								
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311								
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN	S.P.T.	AUGER	BULK	TUBE	CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND		PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL ASH											0.0
1.0	ORGANIC MATERIAL -reddy brown -damp -sandy silt (ml)		180	●	▲		ML	▨	◆			1.0
2.0	SANDY SILT (ML) -gray -damp -organic		181		▲	●	ML	▨	◆			2.0
3.0	SILT WITH SAND (ML) -gray -wet -organic		182		▲	●	ML	▨	◆			3.0
4.0												4.0
5.0			183	●	▲		ML	▨	◆			5.0
6.0	END HOLE at 5.0m											6.0

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LOGGED BY: DA

REVIEWED BY:

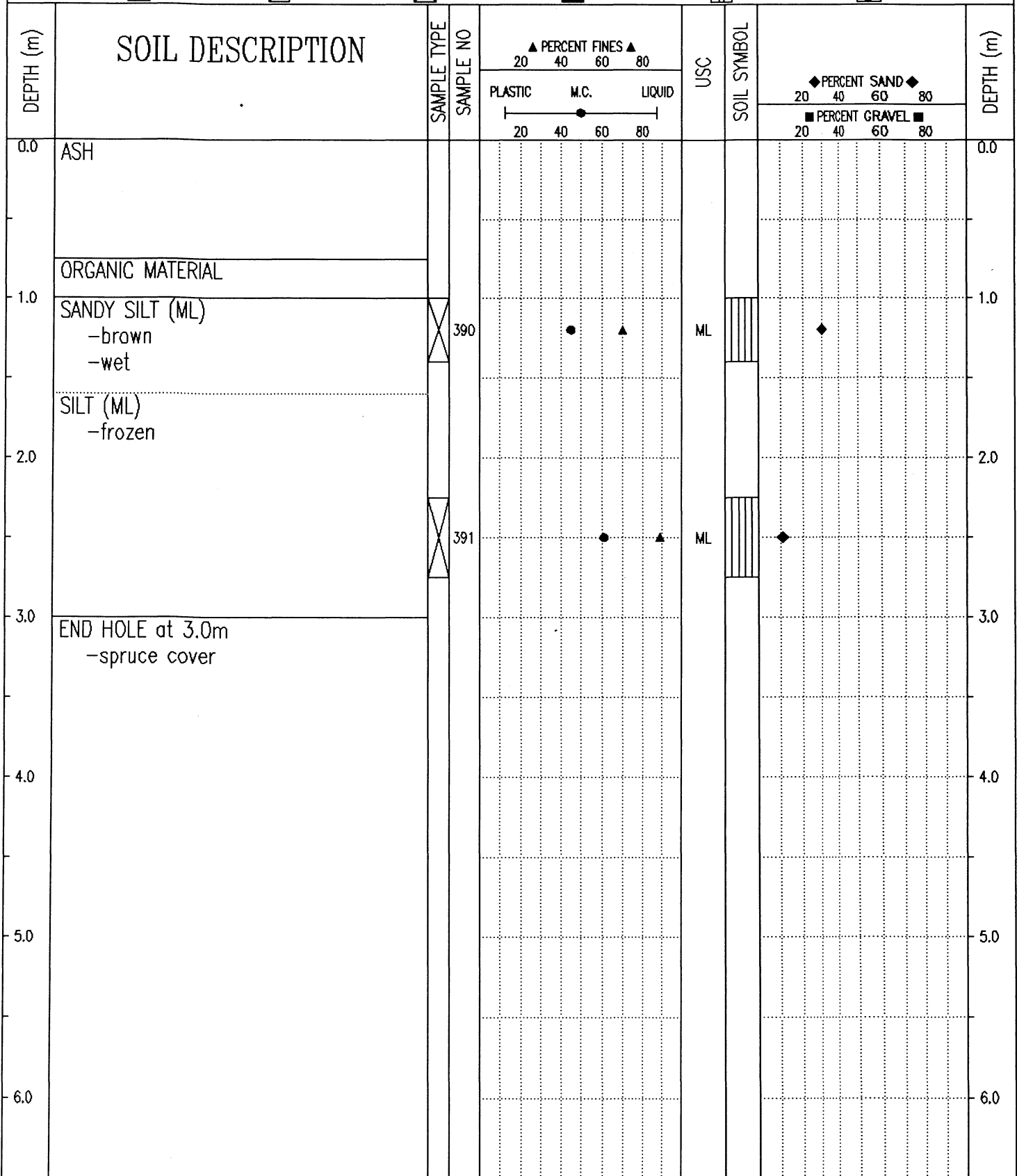
Fig. No:

COMPLETION DEPTH: 5.0 m

COMPLETE: 94/07/21

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SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-305
SHAKWAK PROJECT		SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER		LOCATION: STA 1848+950 o/s 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

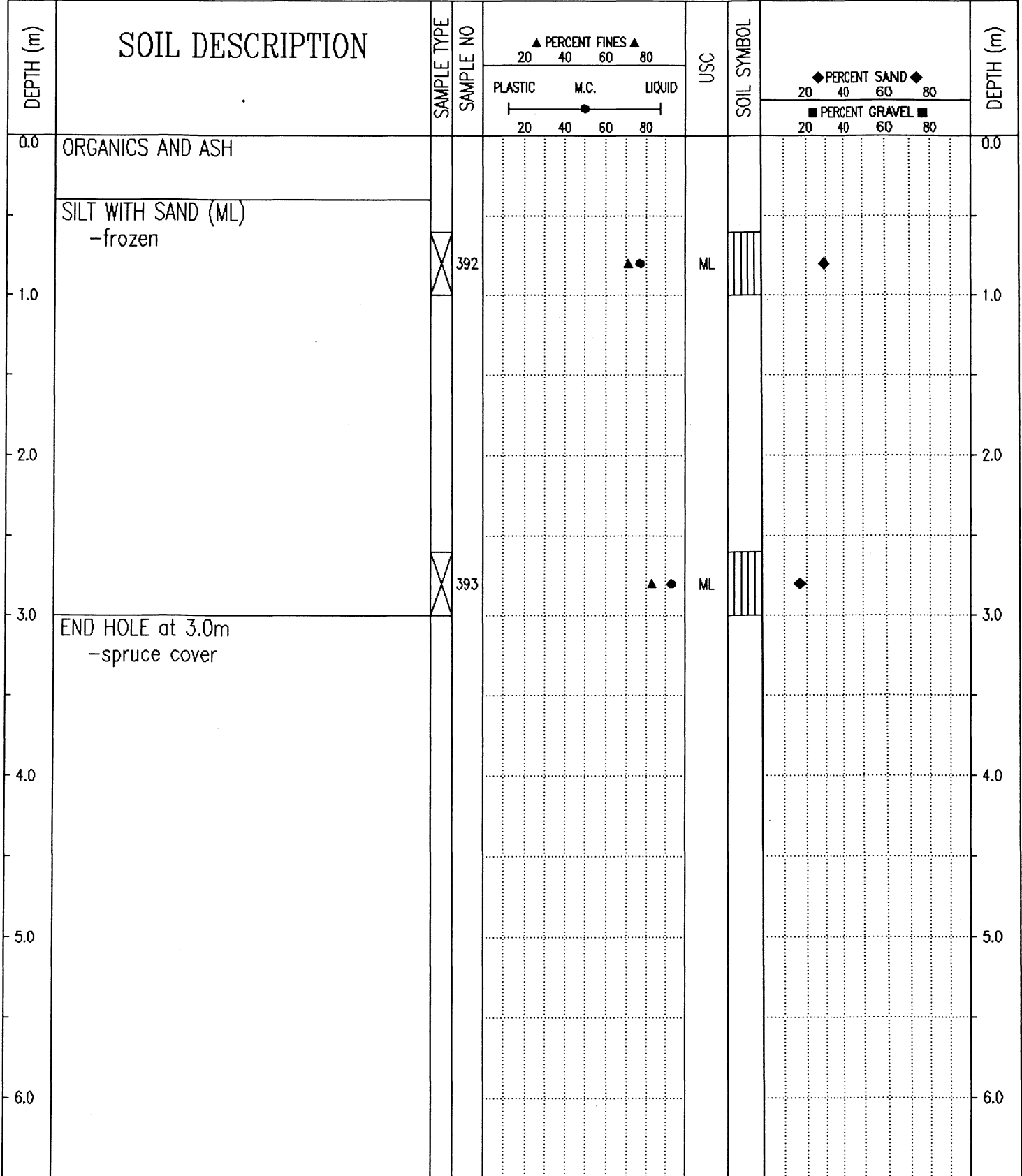


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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/05

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-306
SHAKWAK PROJECT		SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER		LOCATION: STA 1849+050 o/s 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

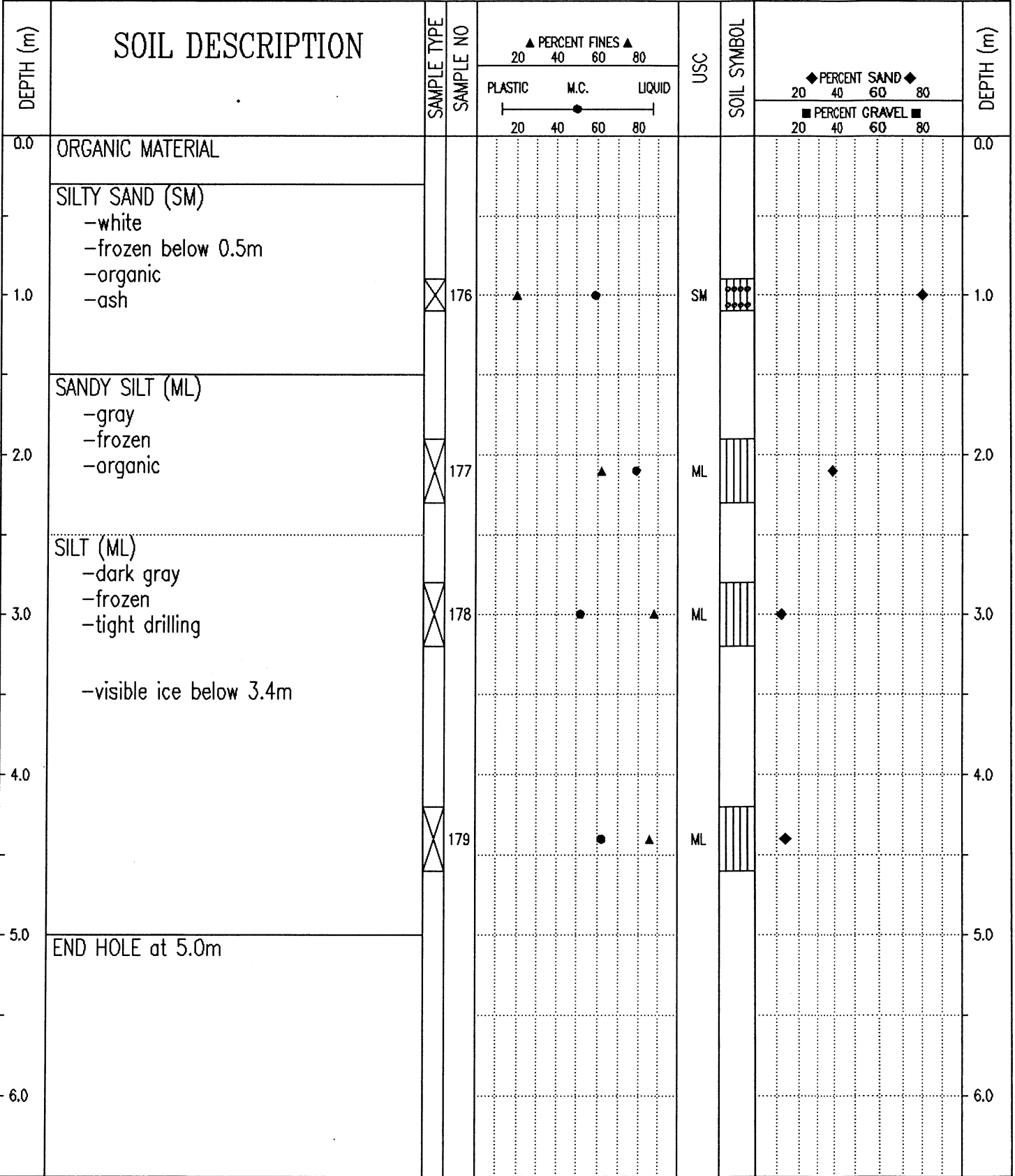


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LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/05

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-54
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	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		

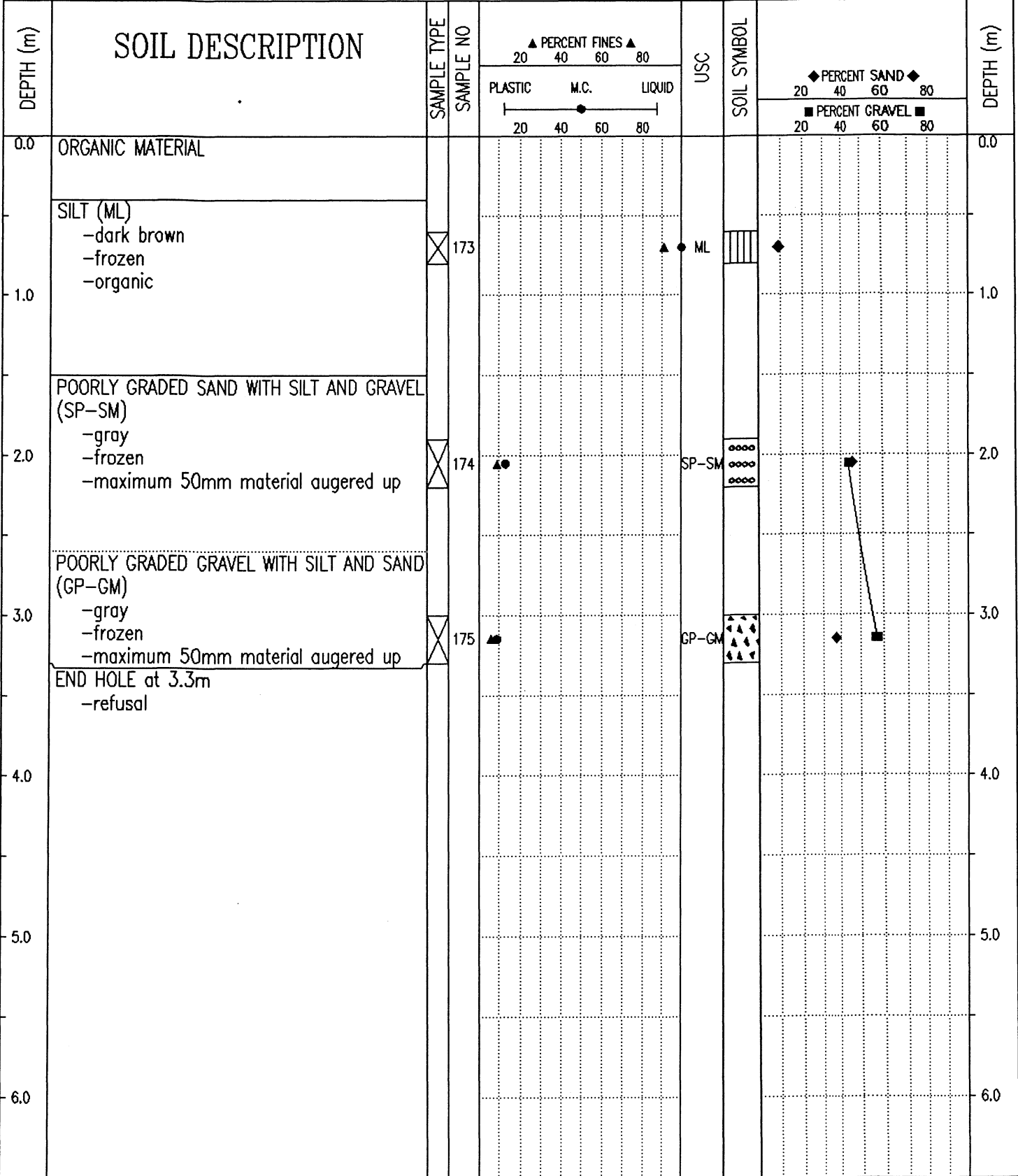


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Transportation Engineering

LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/21
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY PRE-ENGINEERING		TEST HOLE NO: 262-307								
SHAKWAK PROJECT		SEGMENT 15		Project No: 202101-0311-193								
DRILL: CME 750 150mm Dia SOLID STEM AUGER		LOCATION: STA 1849+225 o/s 20m Lt.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
				TUBE								
				CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL			
0.0	ORGANIC MATERIAL										0.0	
	ASH											
1.0	SANDY SILT (ML) -frozen with visible ice -ash		394				ML				1.0	
2.0	SILTY SAND (SM) -frozen with visible ice -ash										2.0	
3.0	END HOLE at 3.0m -water on surface -spruce cover		395				SM				3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: GC		COMPLETION DEPTH: 3.0 m						
				REVIEWED BY:		COMPLETE: 93/10/05						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-53
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	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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COMPLETION DEPTH: 3.3 m

REVIEWED BY:

COMPLETE: 94/07/21

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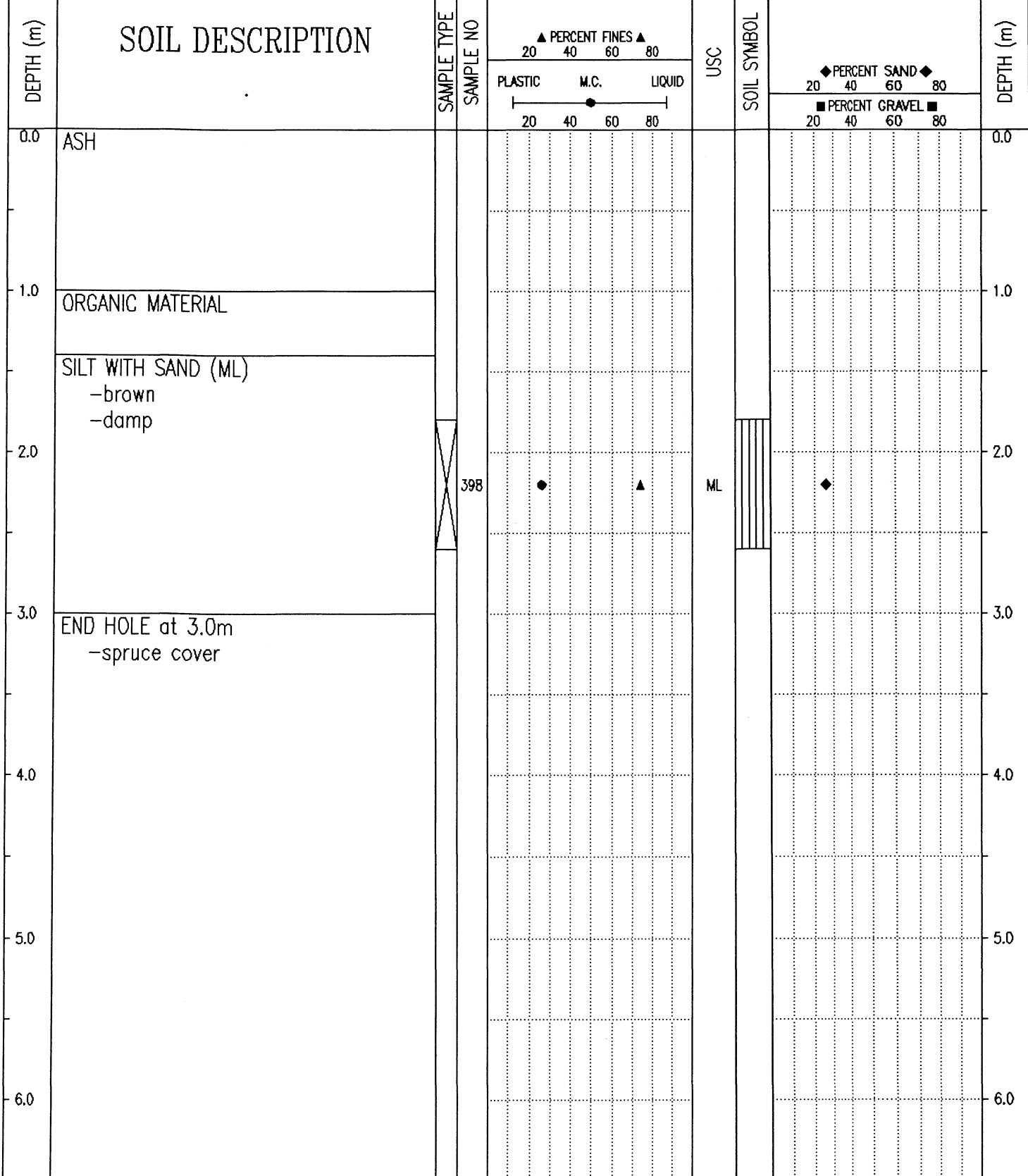
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-308
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1849+375 o/s 10m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input 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	ASH -organics									0.0	
1.0	SANDY SILT (ML) -brown -damp	<input checked="" type="checkbox"/>	396				ML			1.0	
2.0	SILT (ML) -wet	<input checked="" type="checkbox"/>	397				ML			2.0	
3.0	END HOLE at 3.0m -spruce cover -wooden culvert at Sta. 1849+350									3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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	REVIEWED BY:	COMPLETE: 93/10/05
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-309
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1849+475 o/s 2m Rt.	ELEVATION: 0.00 (m)

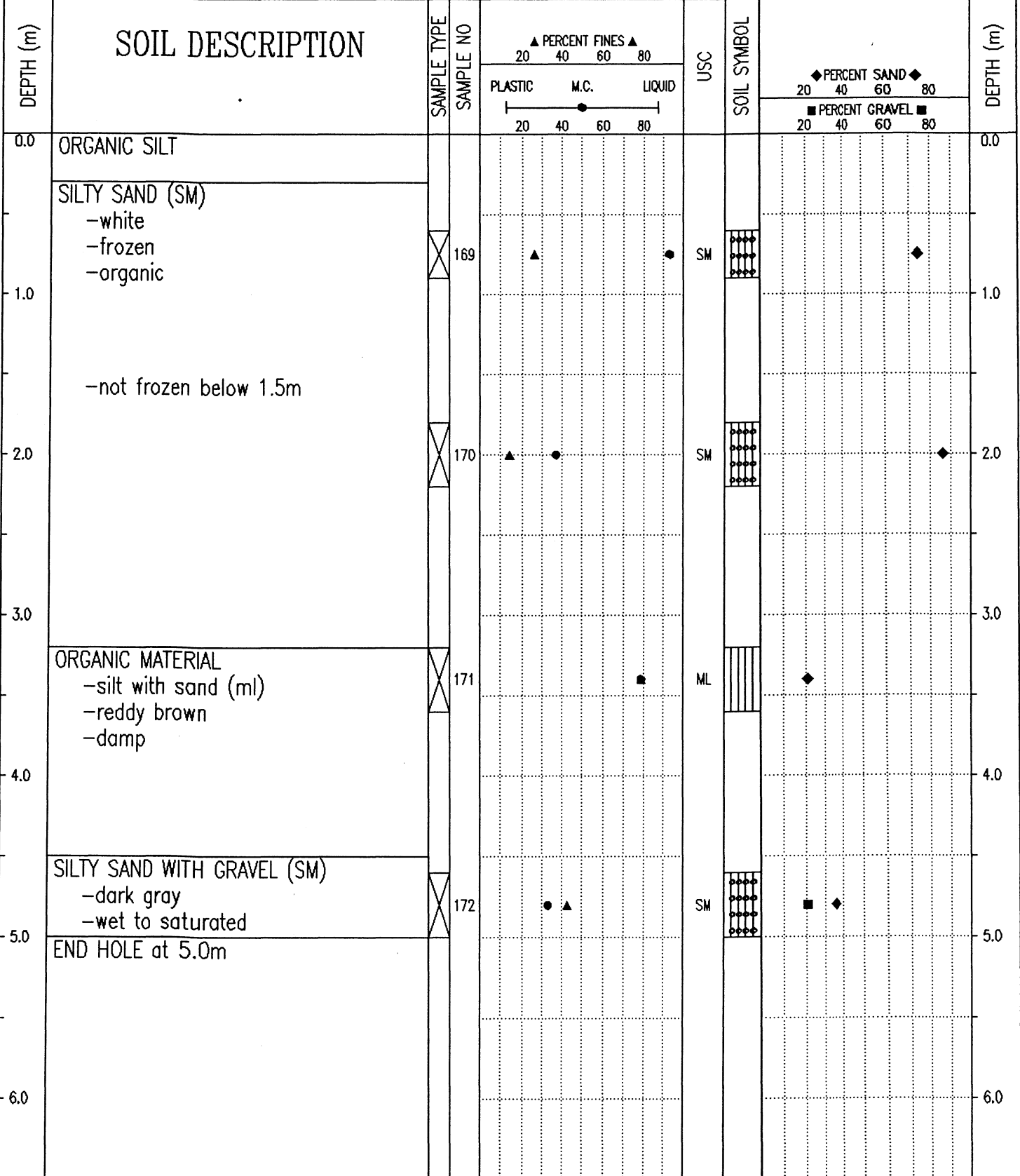
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon Transportation Engineering	LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 93/10/06
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-52
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

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

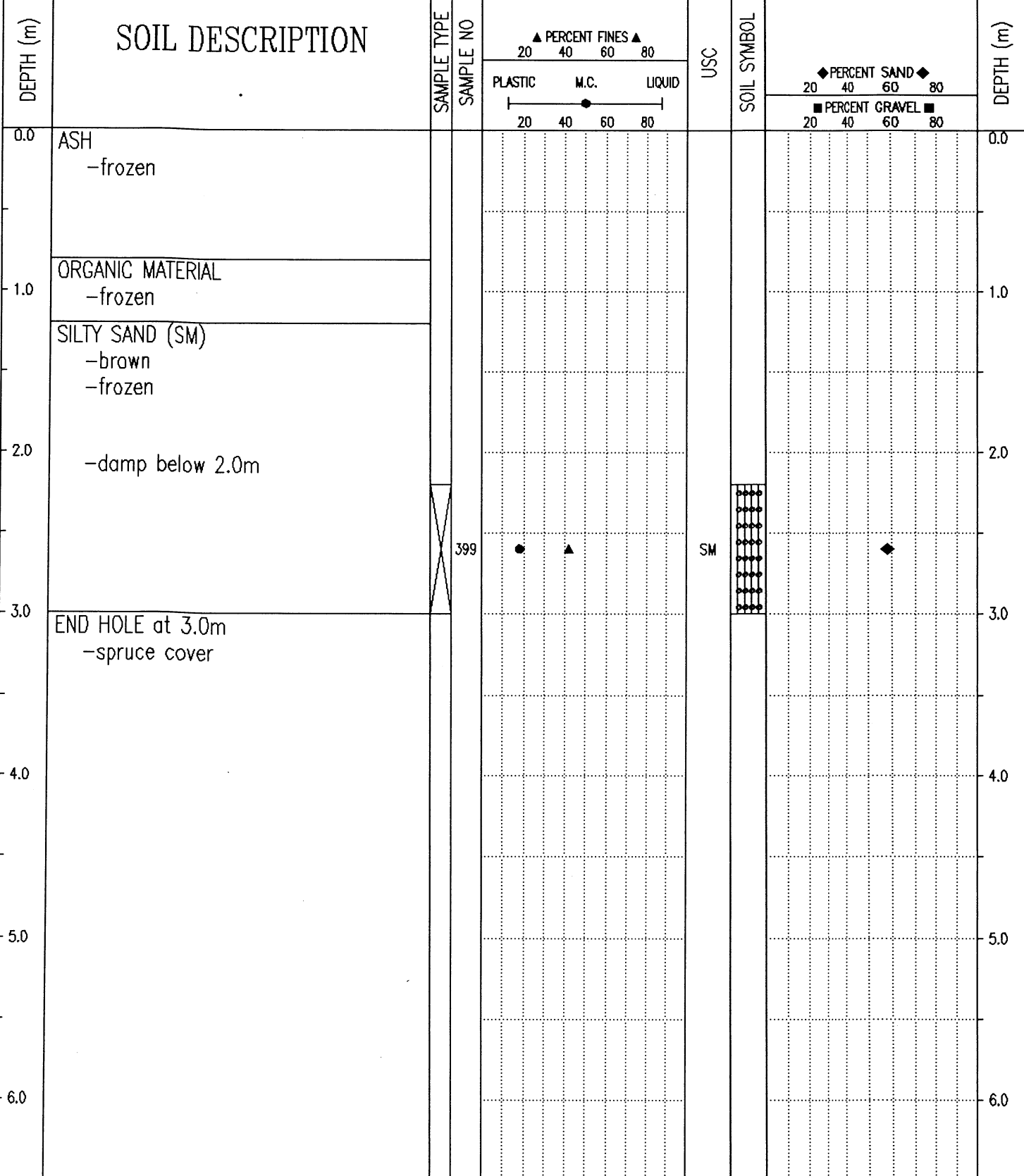


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LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/21
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-309A
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1849+575	ELEVATION: 0.00 (m)

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



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REVIEWED BY:	COMPLETE: 93/10/06
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-310
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1849+650 o/s 2m Rt.	ELEVATION: 0.00 (m)

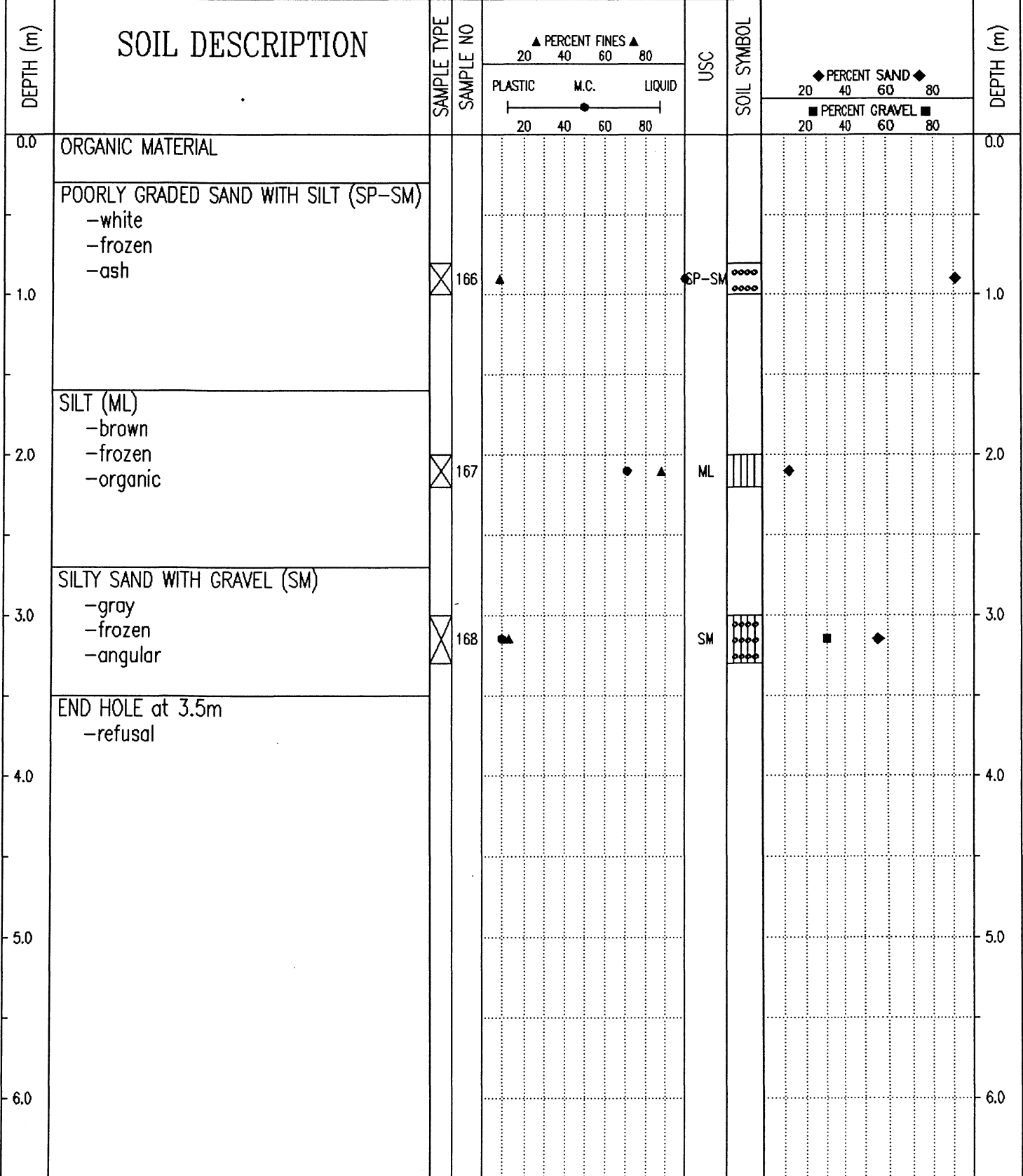
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL												0.0
	ASH -frozen												1.0
1.0	SILT -frozen												2.0
2.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -frozen but lower moisture content -easy drilling												3.0
3.0	END HOLE at 3.0m -spruce cover												4.0
4.0													5.0
5.0													6.0

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	REVIEWED BY:	COMPLETE: 93/10/06
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-51
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

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



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	REVIEWED BY:	COMPLETE: 94/07/21
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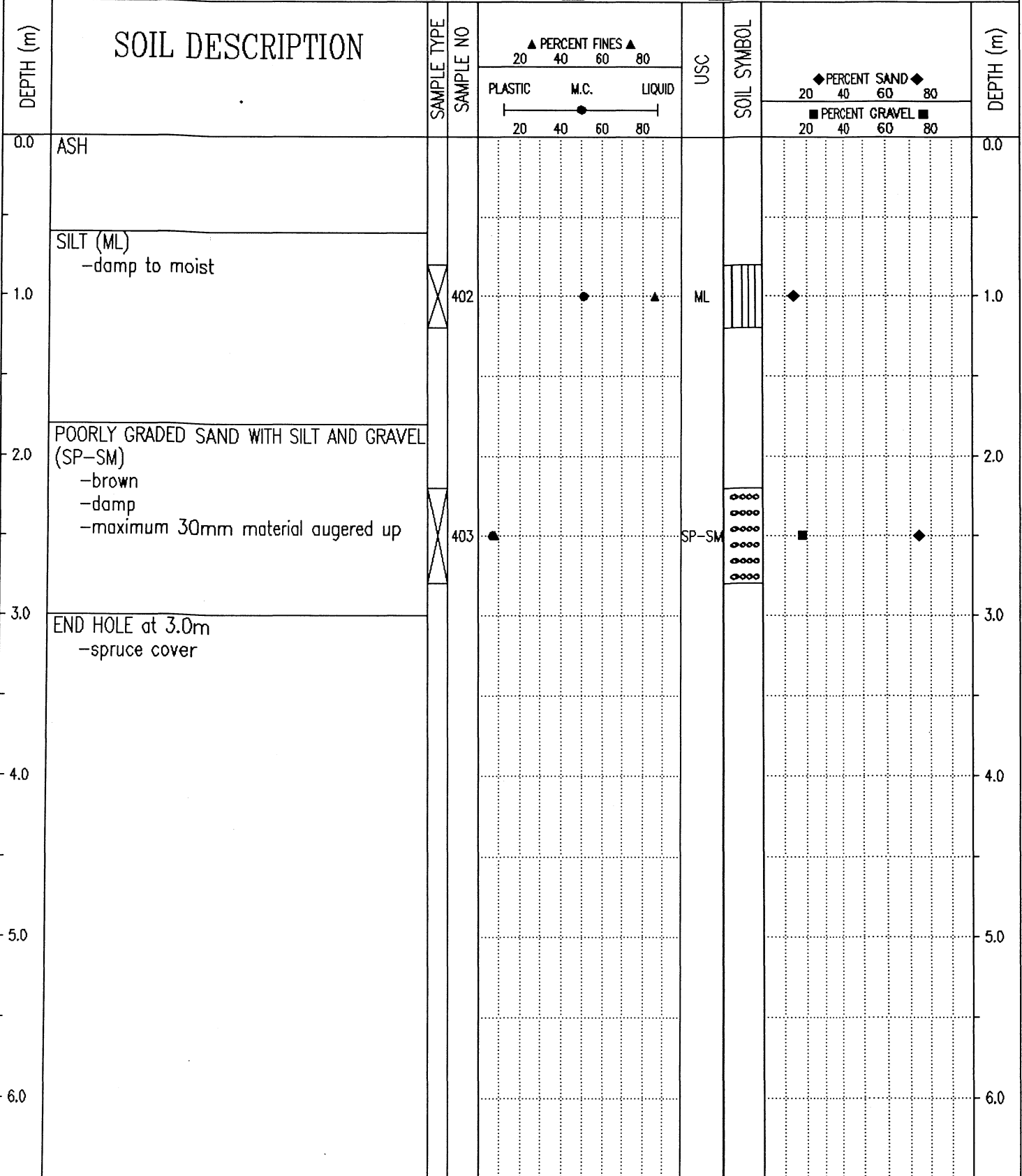
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

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 MATERIAL										0.0
	ASH -frozen										
1.0											1.0
	ORGANIC MATERIAL										
2.0	SILT WITH SAND (ML) -frozen -very slow drilling		401				ML				2.0
3.0	END HOLE at 3.0m -spruce cover										3.0
4.0											4.0
5.0											5.0
6.0											6.0

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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/06
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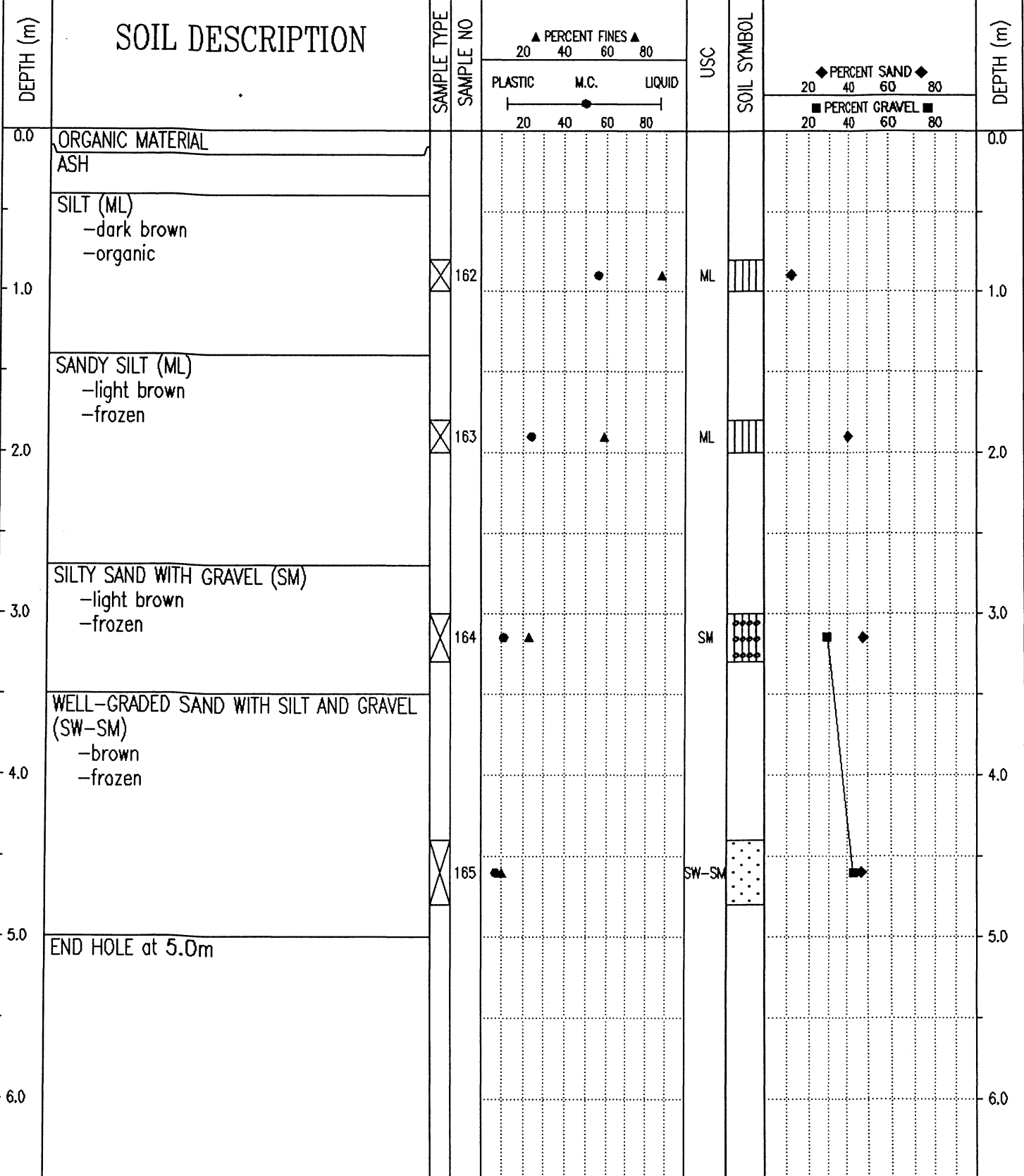
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-312
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1849+825 o/s 10m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input 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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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/06
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SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

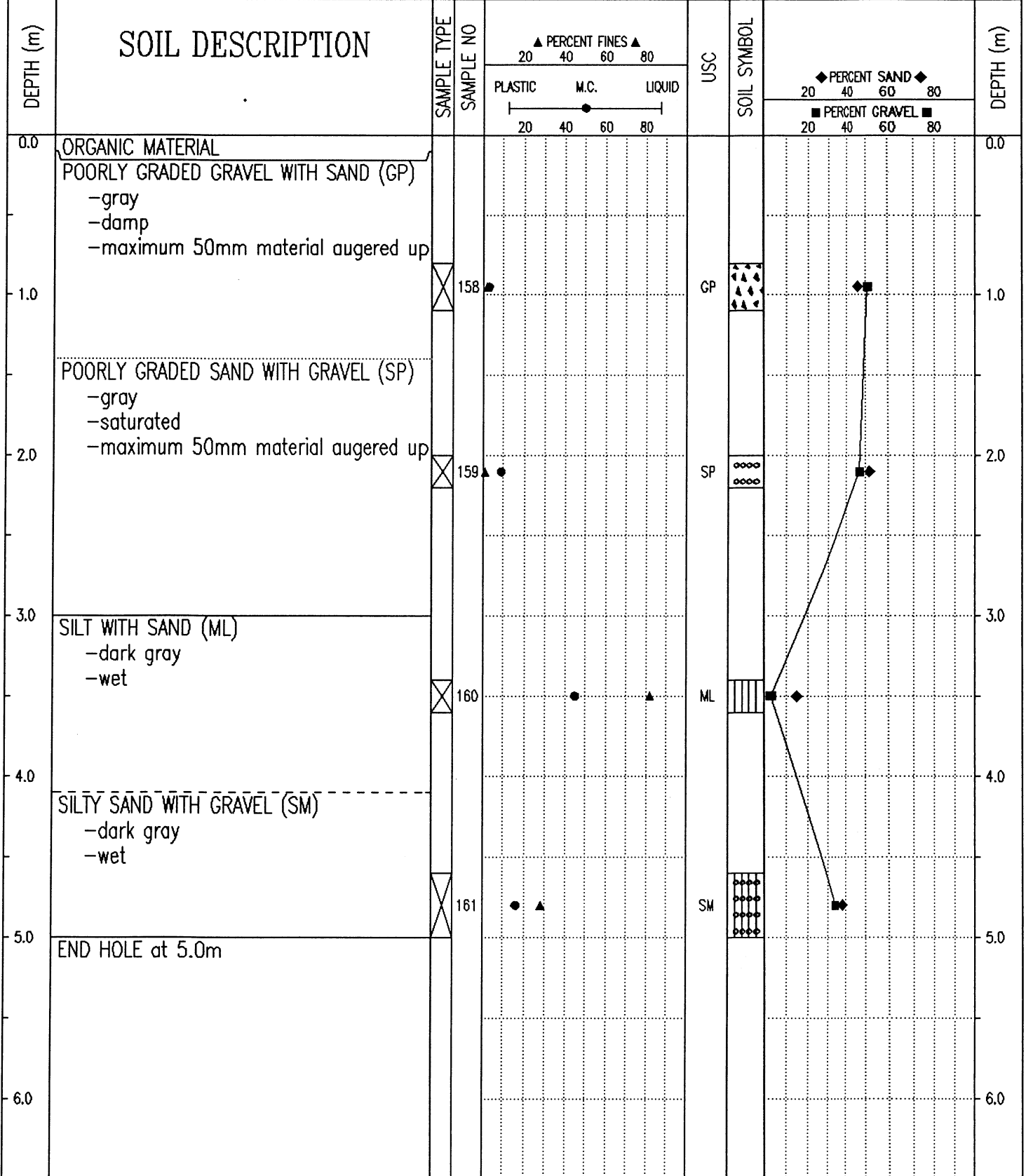


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LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/21
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-49
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

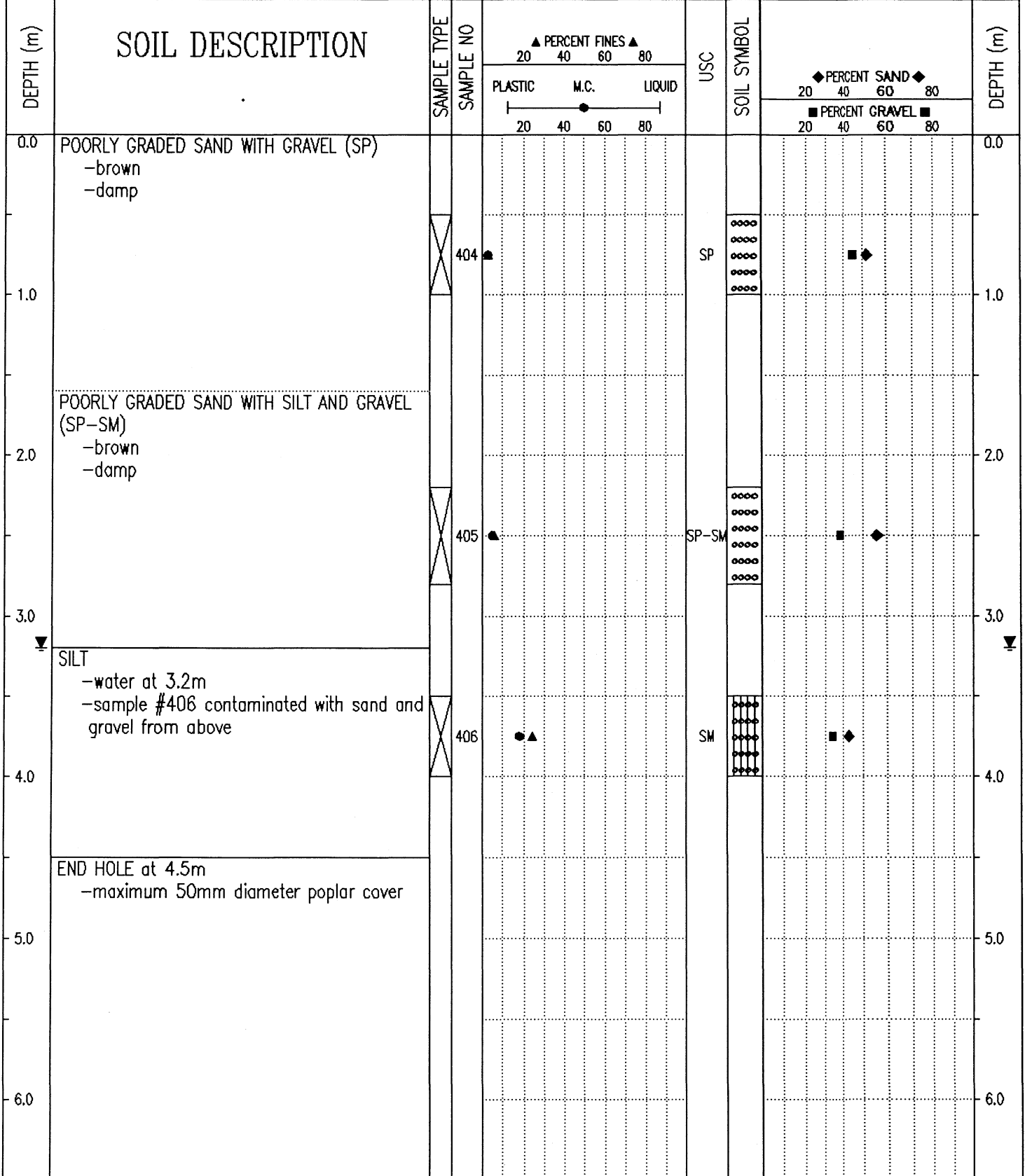
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon Transportation Engineering	LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
	REVIEWED BY:	COMPLETE: 94/07/21
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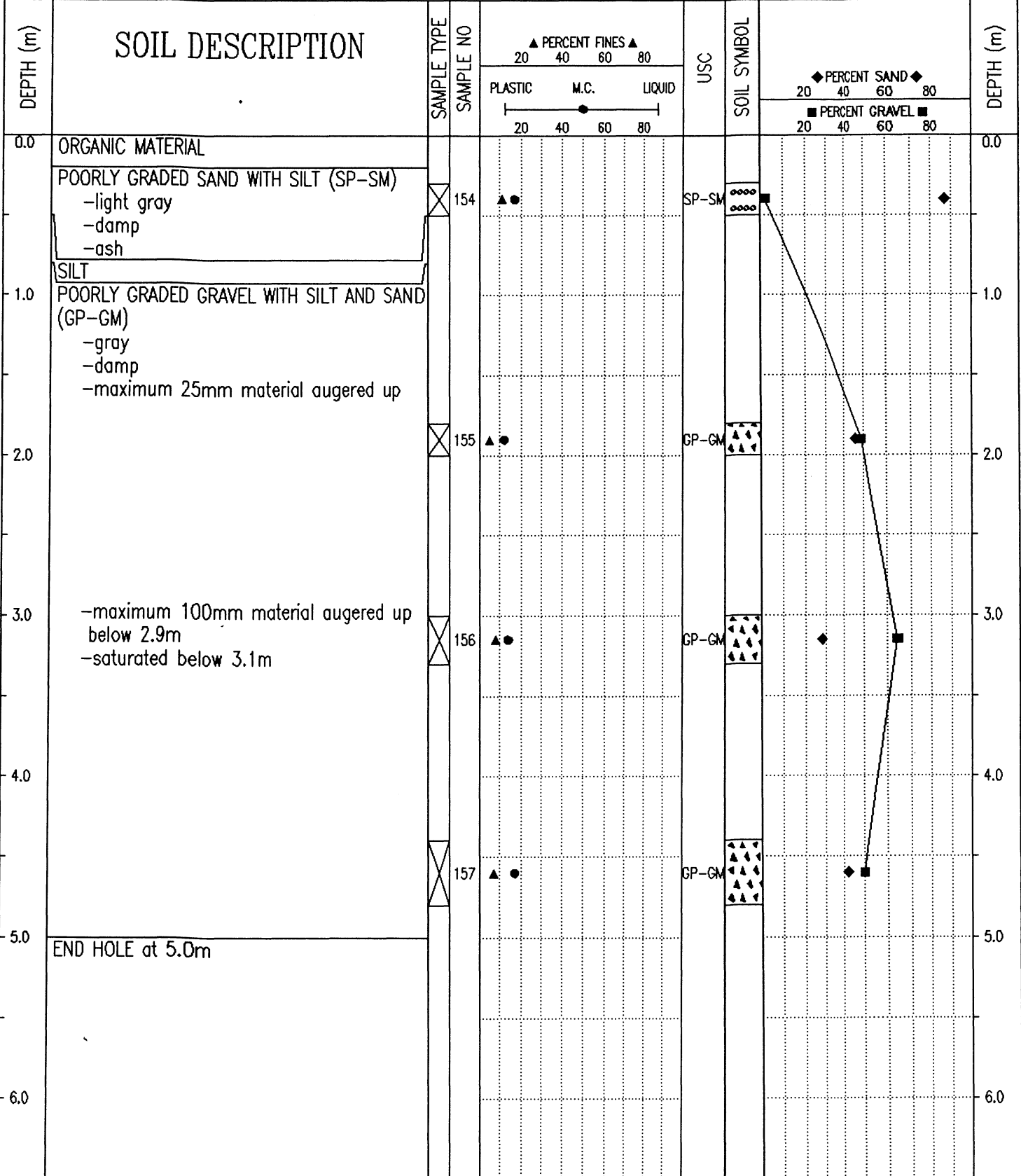
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-313
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1849+950 o/s 5m Rt.	ELEVATION: 0.00 (m)

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



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	REVIEWED BY:	COMPLETE: 93/10/06
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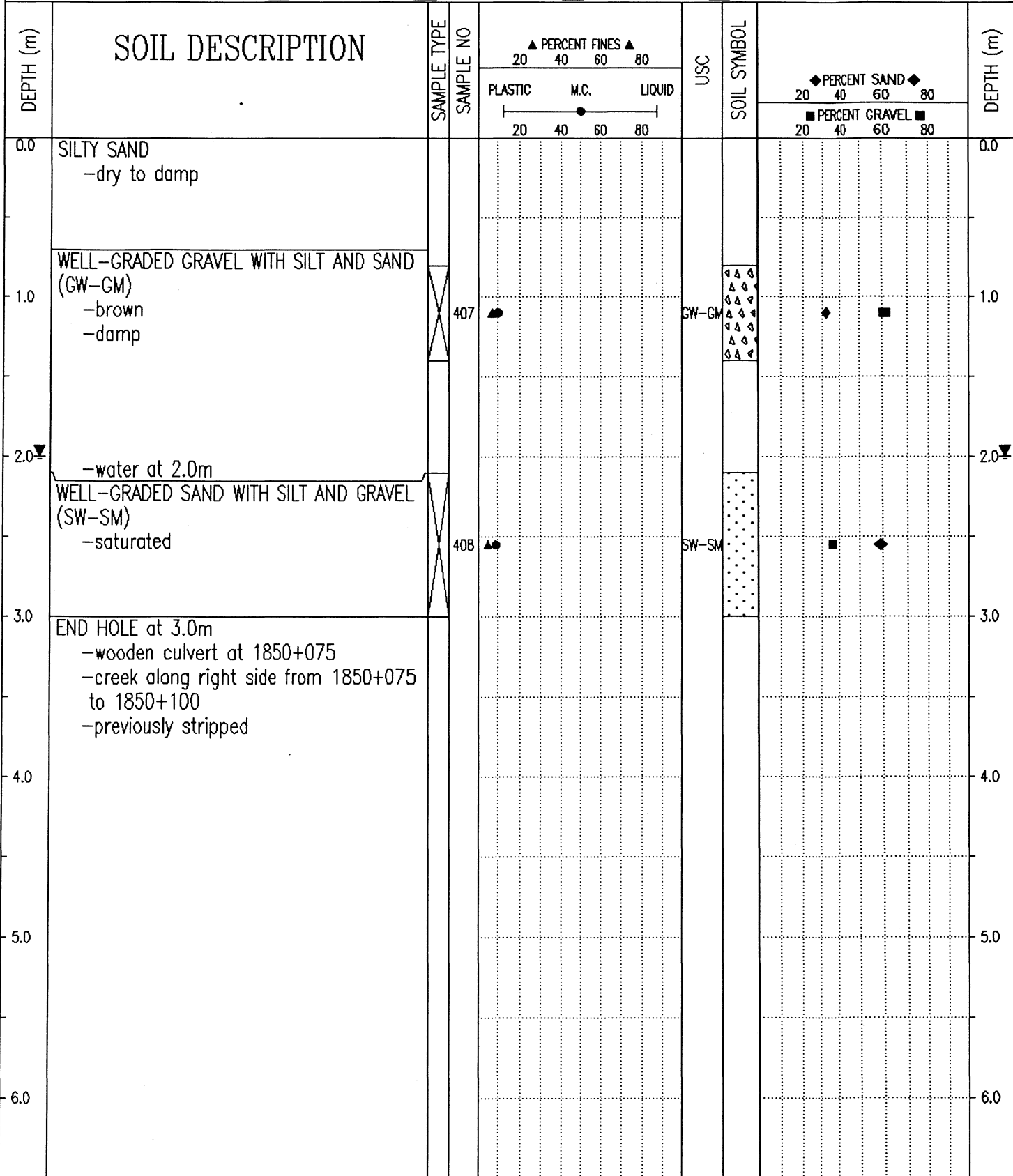
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



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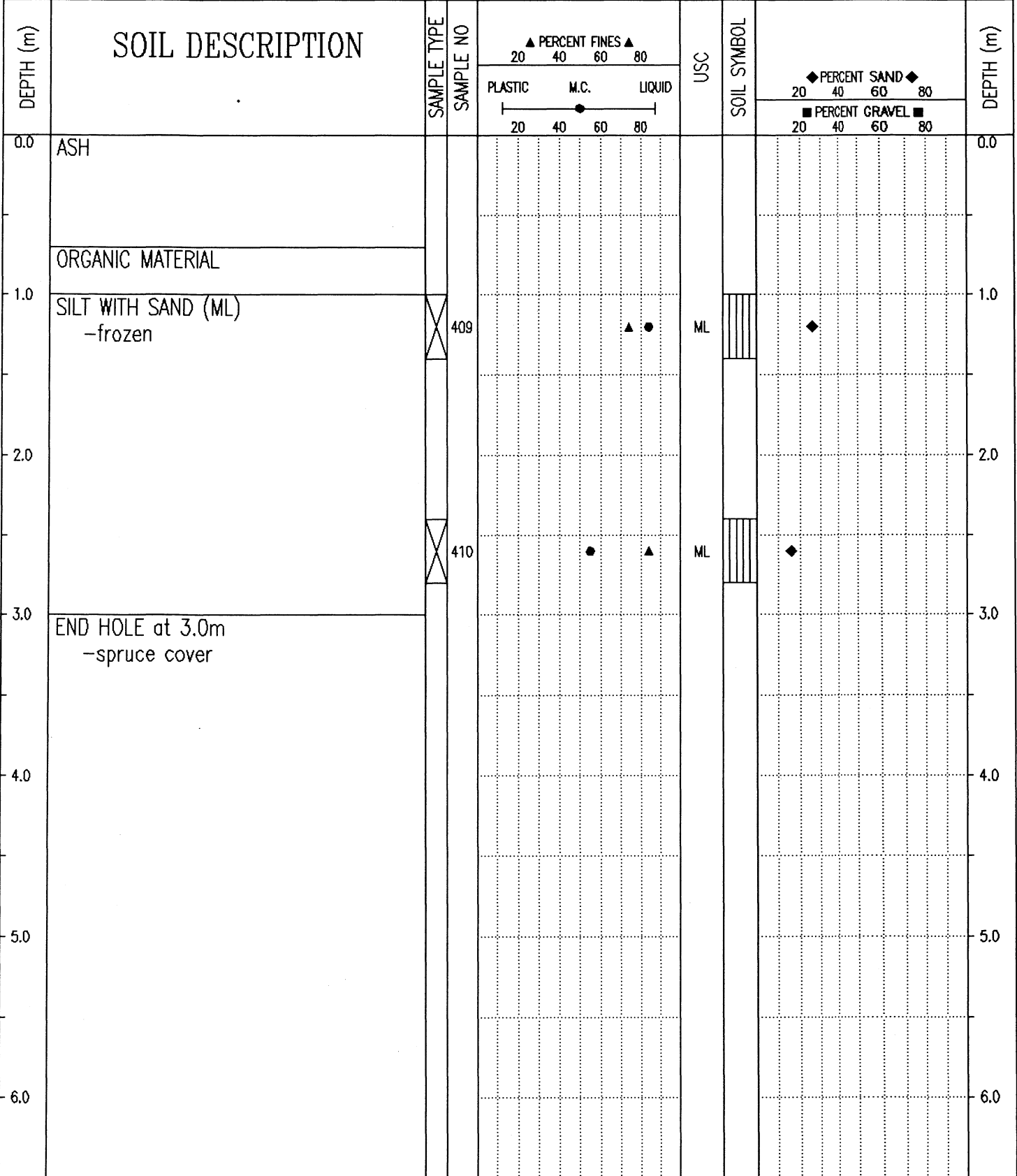
LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/21
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-314
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1850+125 o/s 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



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	REVIEWED BY:	COMPLETE: 93/10/06
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-315
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1850+235 o/s 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		

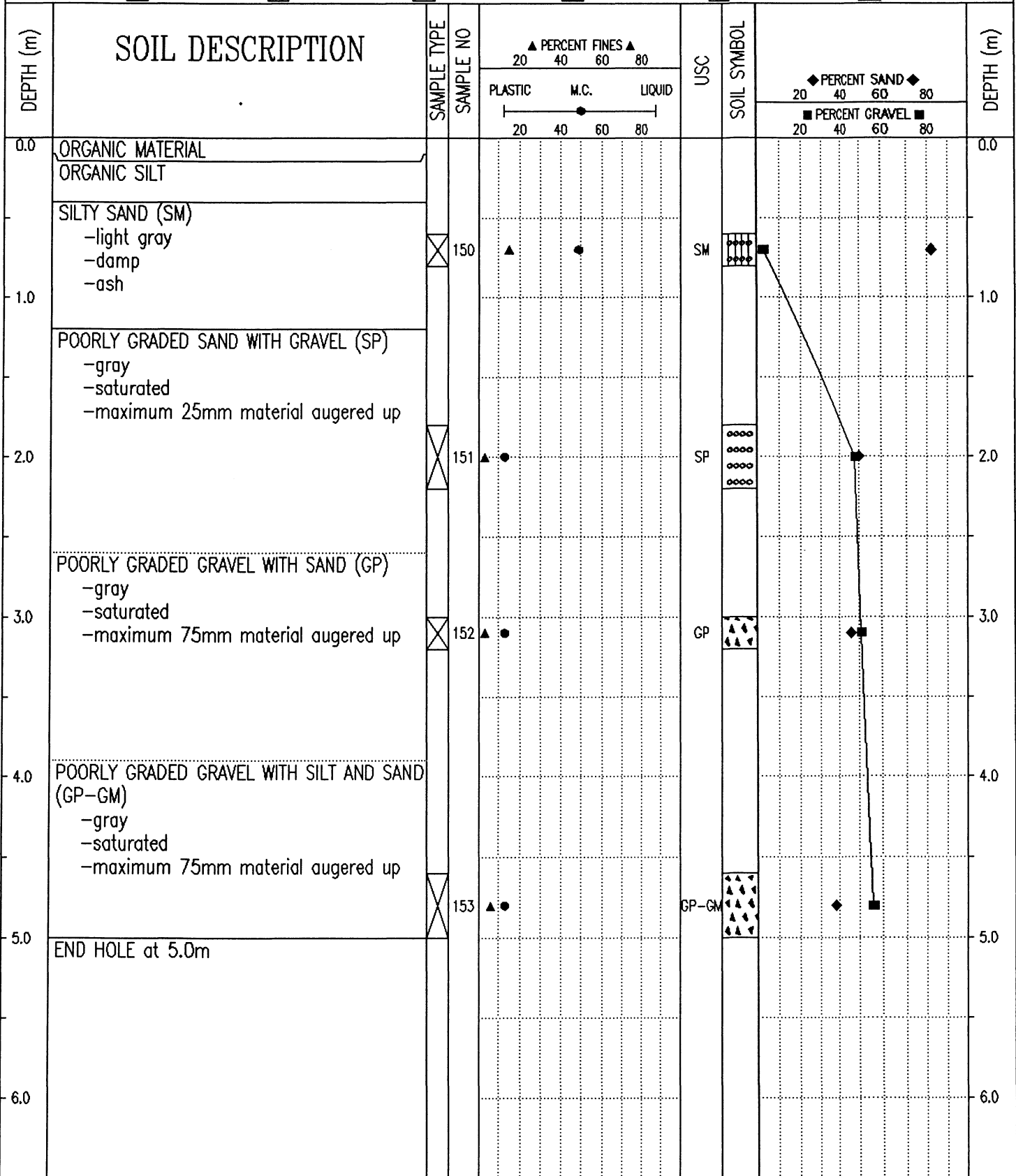


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REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 3.0 m  
COMPLETE: 93/10/06

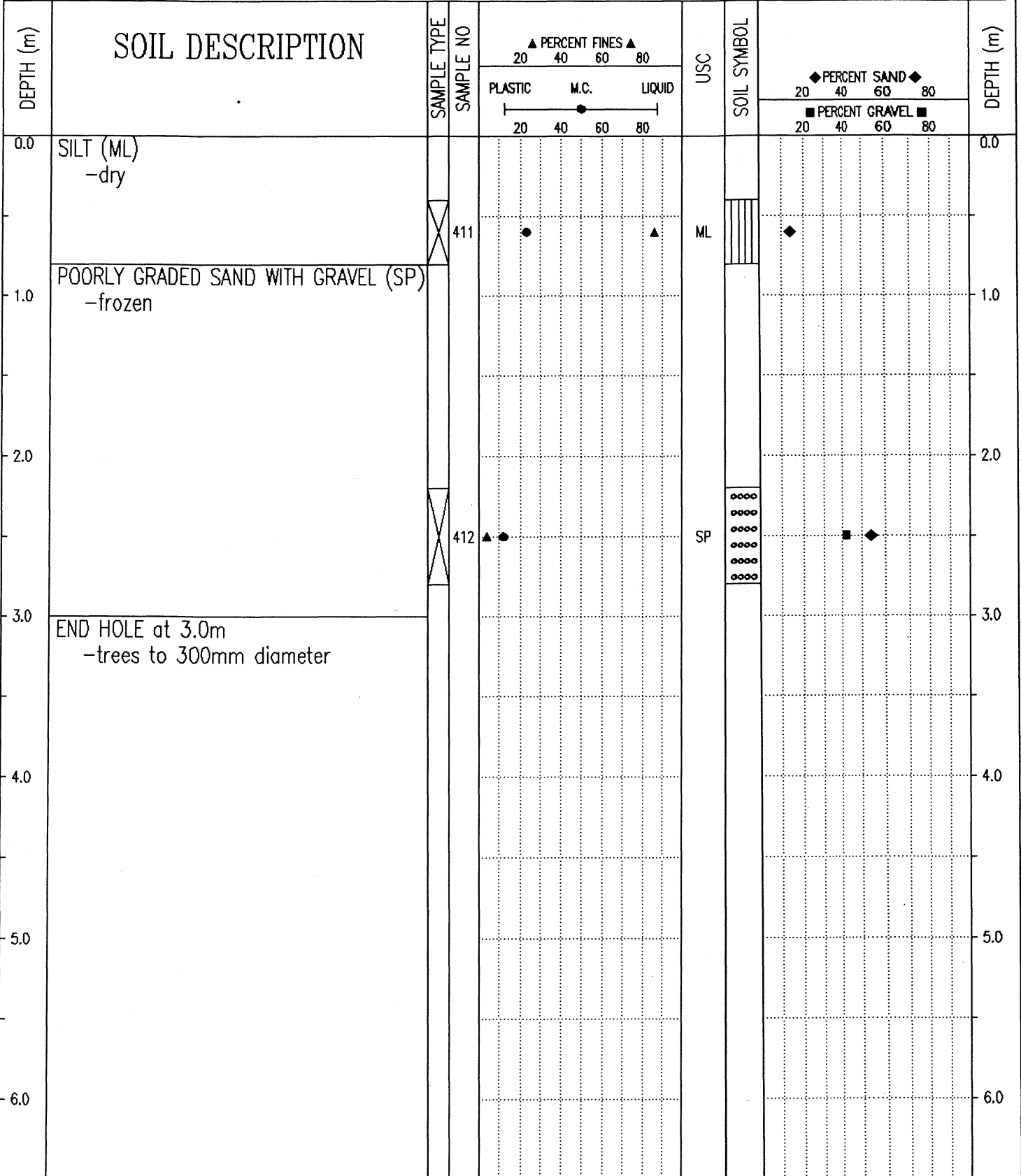
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-47
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/20
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-316
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1850+325 o/s 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	



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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/06
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-317
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1850+460 o/s 10m 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		

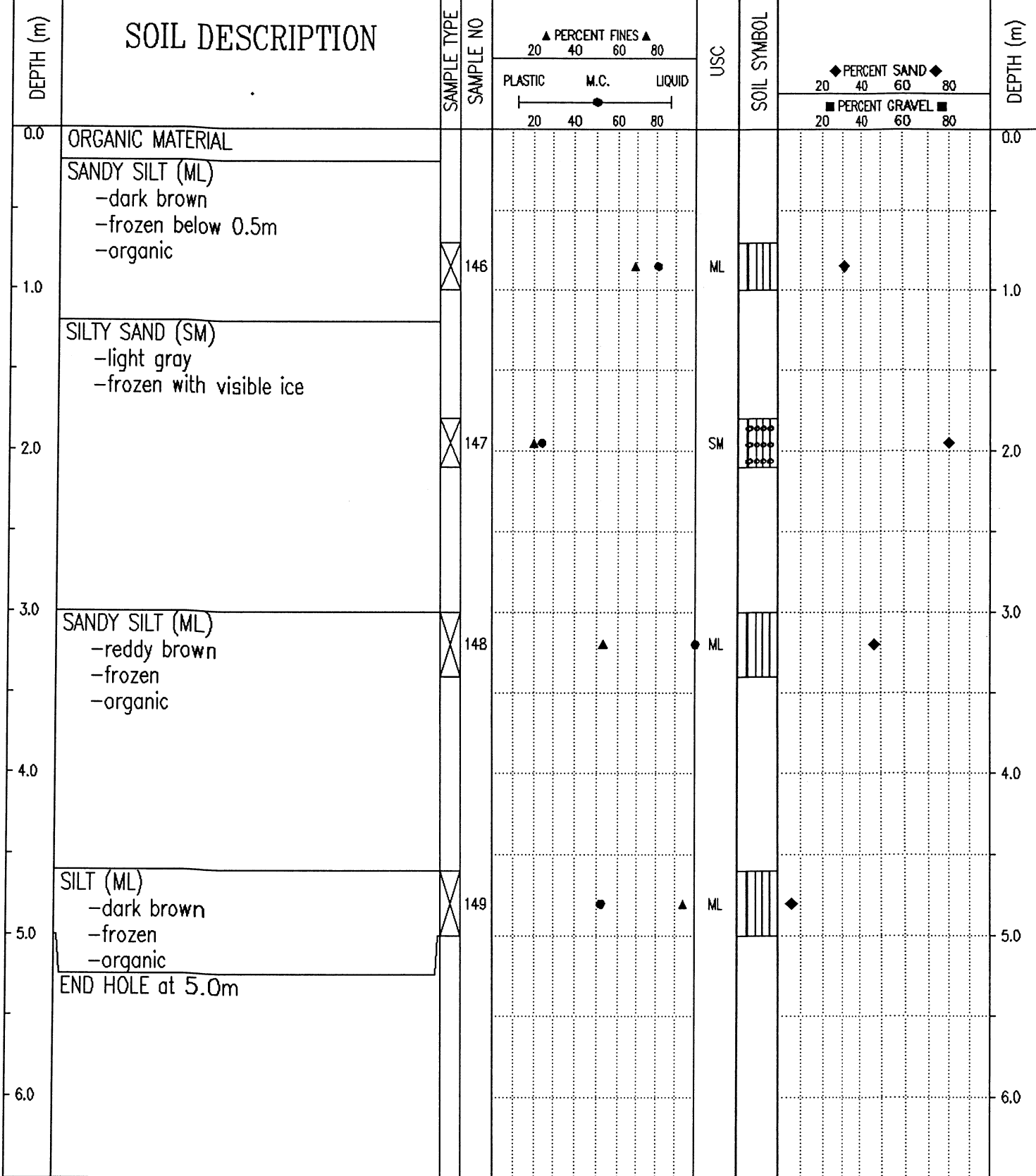
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■		
0.0	SILT WITH SAND (ML) -dry									0.0	
1.0	ASH -frozen	<input checked="" type="checkbox"/>	413	●		▲	ML	◆		1.0	
2.0	SILT -frozen									2.0	
3.0	END HOLE at 3.0m									3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/06
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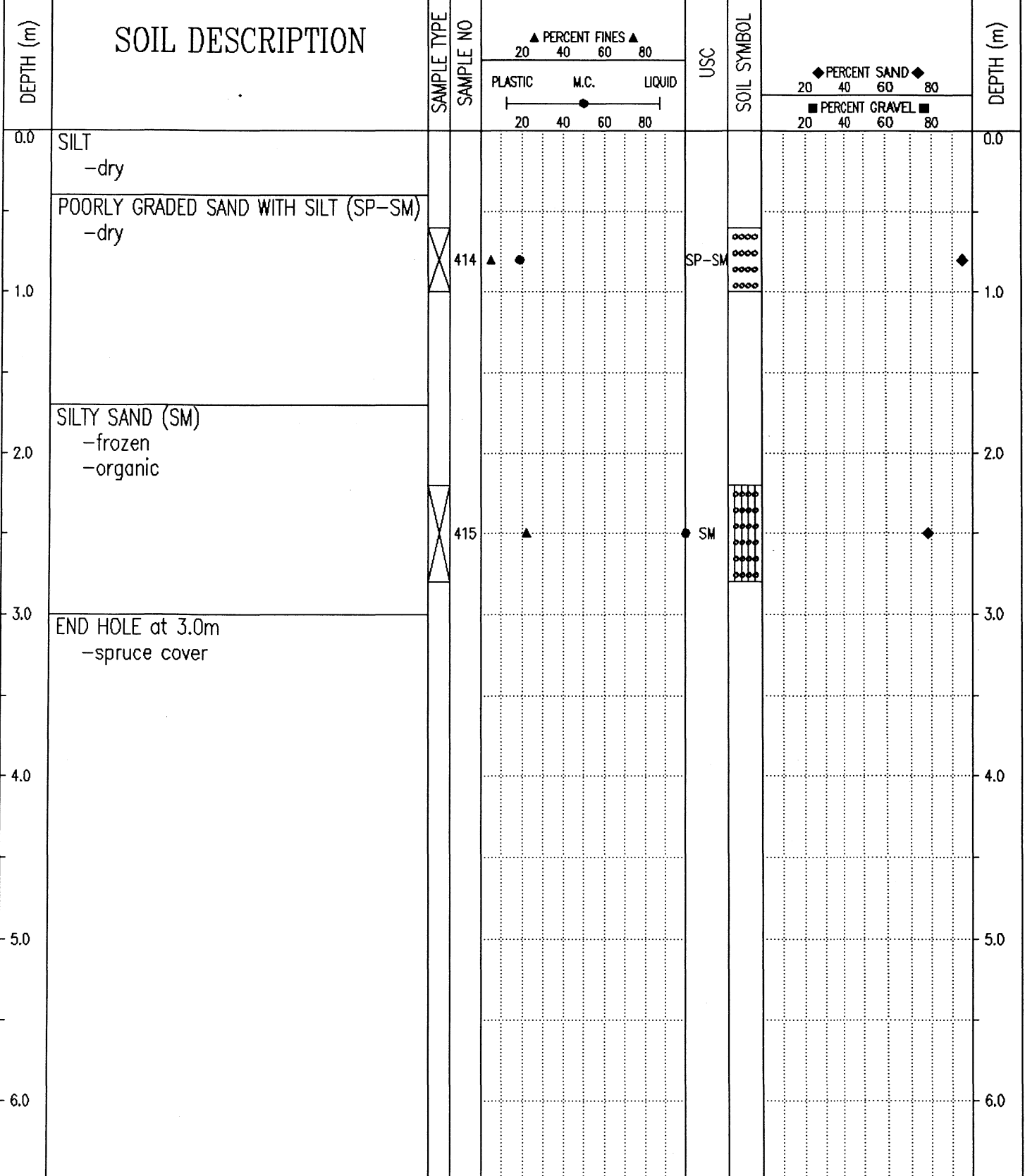
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-46
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	ELEVATION: 0.00 (m)

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

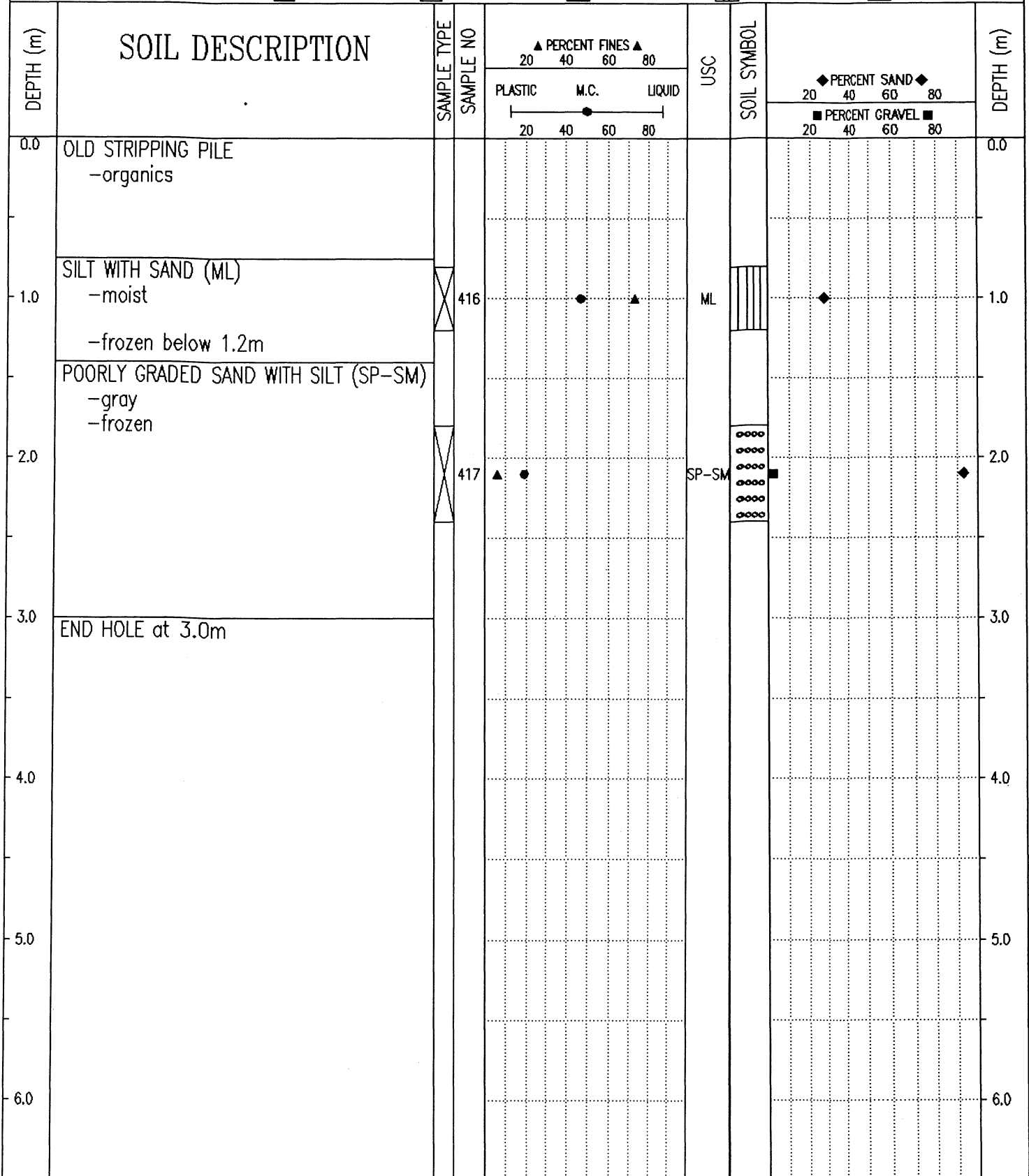


Government of Yukon Transportation Engineering	LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
	REVIEWED BY:	COMPLETE: 94/07/20
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SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



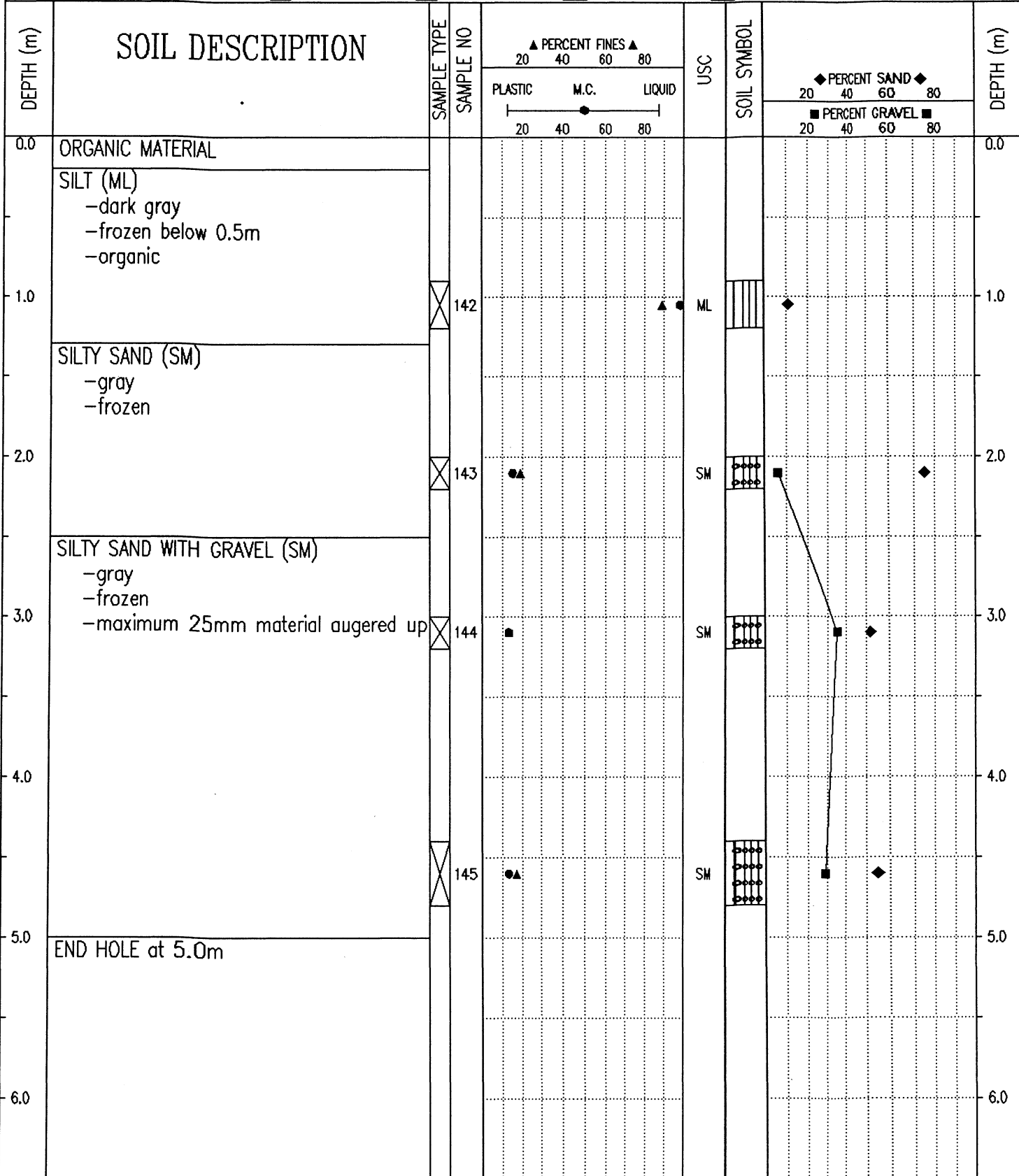
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-319
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1850+625	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" 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: 93/10/06
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY RE-CONSTRUCTION	TEST PIT NO: 304-45
SHAKWAK PROJECT	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: See Plan	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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LOGGED BY: DA

REVIEWED BY:

Fig. No:

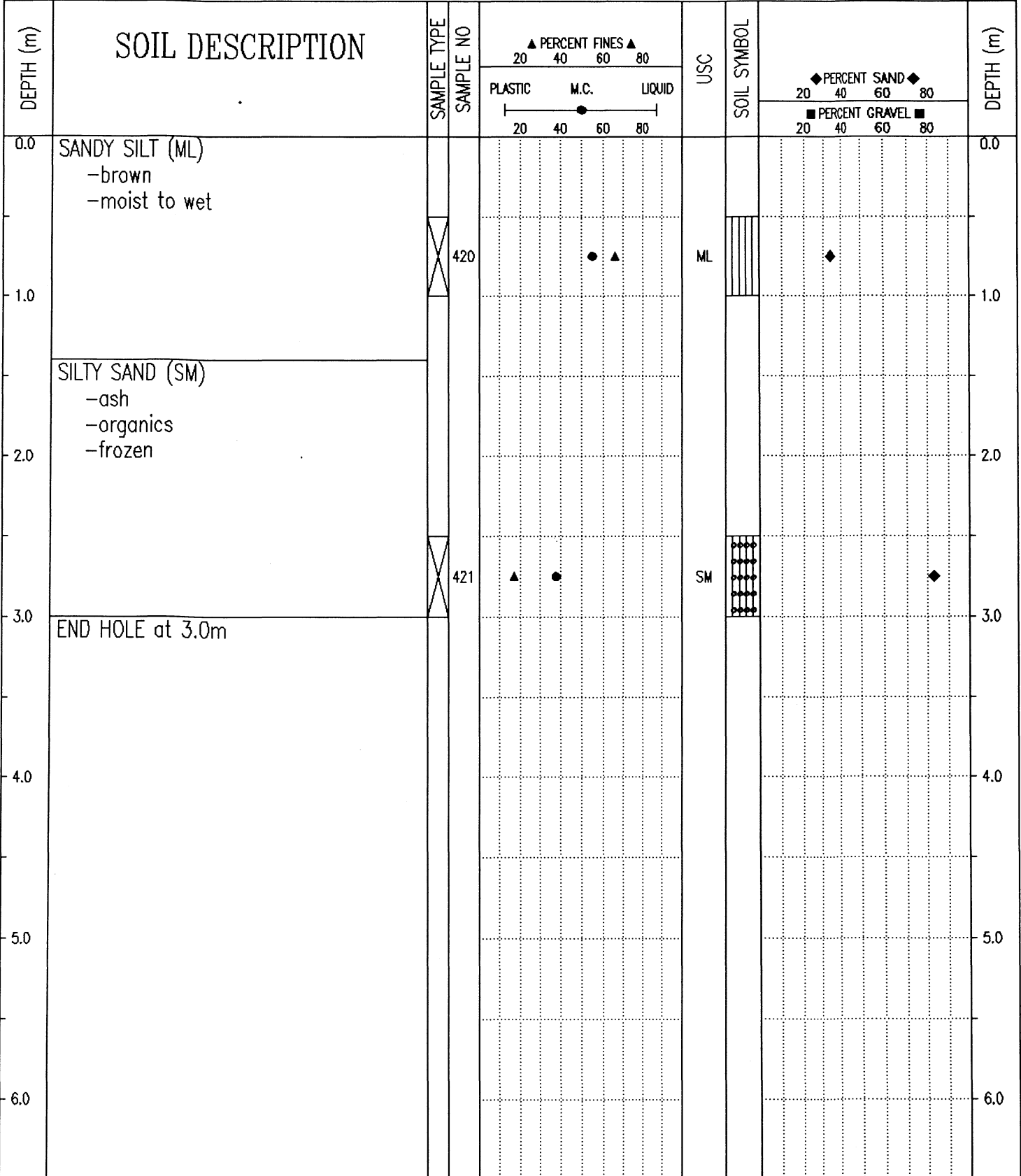
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COMPLETE: 94/07/20

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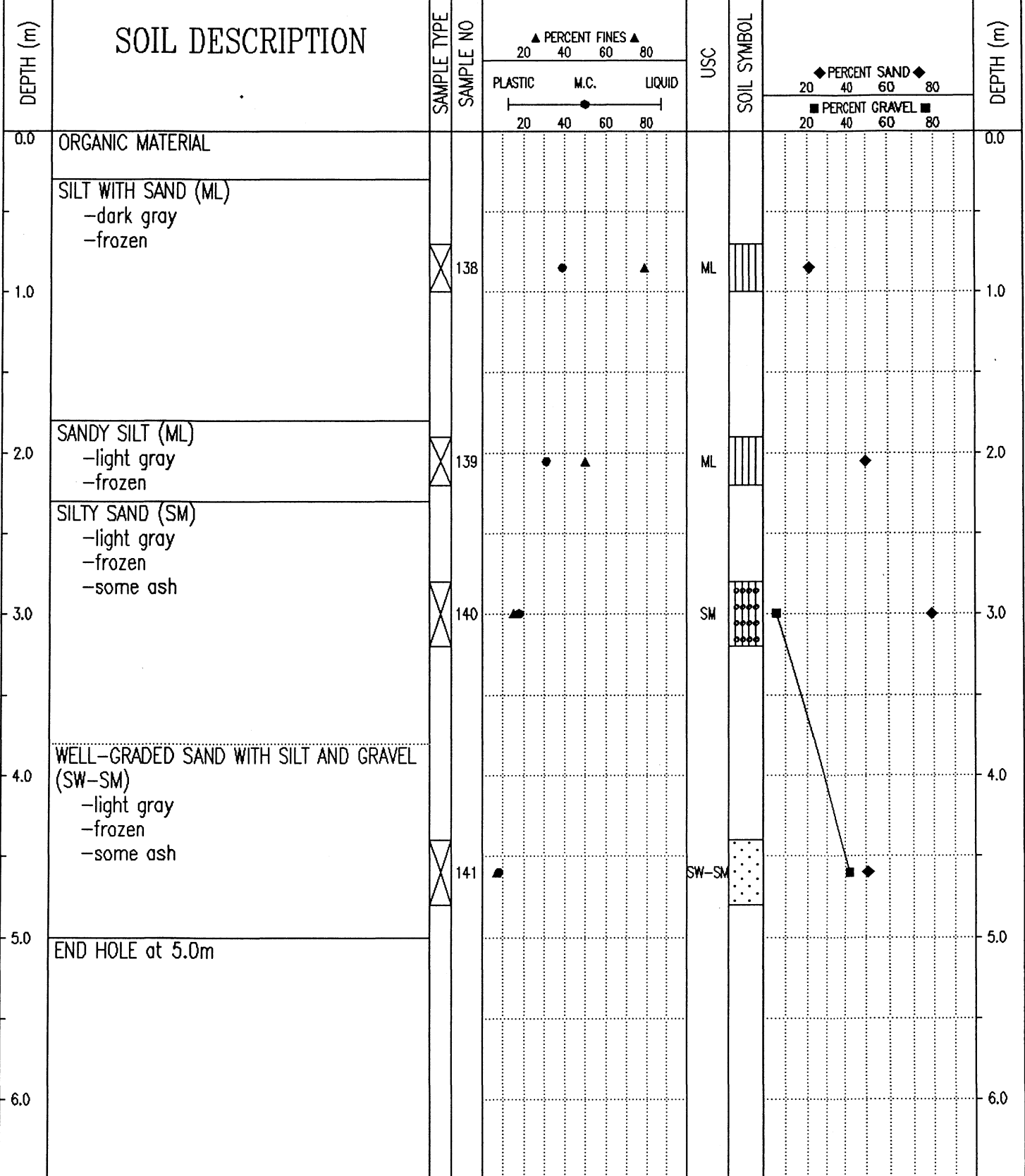
SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY PRE-ENGINEERING		TEST HOLE NO: 262-320								
SHAKWAK PROJECT		SEGMENT 15		Project No: 202101-0311-193								
DRILL: CME 750 150mm Dia SOLID STEM AUGER		LOCATION: STA 1850+735 o/s 15m Lt.		ELEVATION: 0.00 (m)								
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE					
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL										0.0	
	ASH -frozen											
1.0											1.0	
	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -frozen -maximum 50mm material augered up											
2.0											2.0	
		<input checked="" type="checkbox"/>	418	▲	◆		SP-SM	◆	■	◆		
3.0											3.0	
	WELL-GRADED GRAVEL WITH SAND (GW) -maximum 50mm material augered up											
4.0		<input checked="" type="checkbox"/>	419	▲	◆		GW	◆	■	◆	4.0	
	END HOLE at 4.5m											
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: GC		COMPLETION DEPTH: 4.5 m						
				REVIEWED BY:		COMPLETE: 93/10/06						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 262-321
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1850+825 o/s 10m 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: GC	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 93/10/06
	Fig. No:	Page 1 of 1

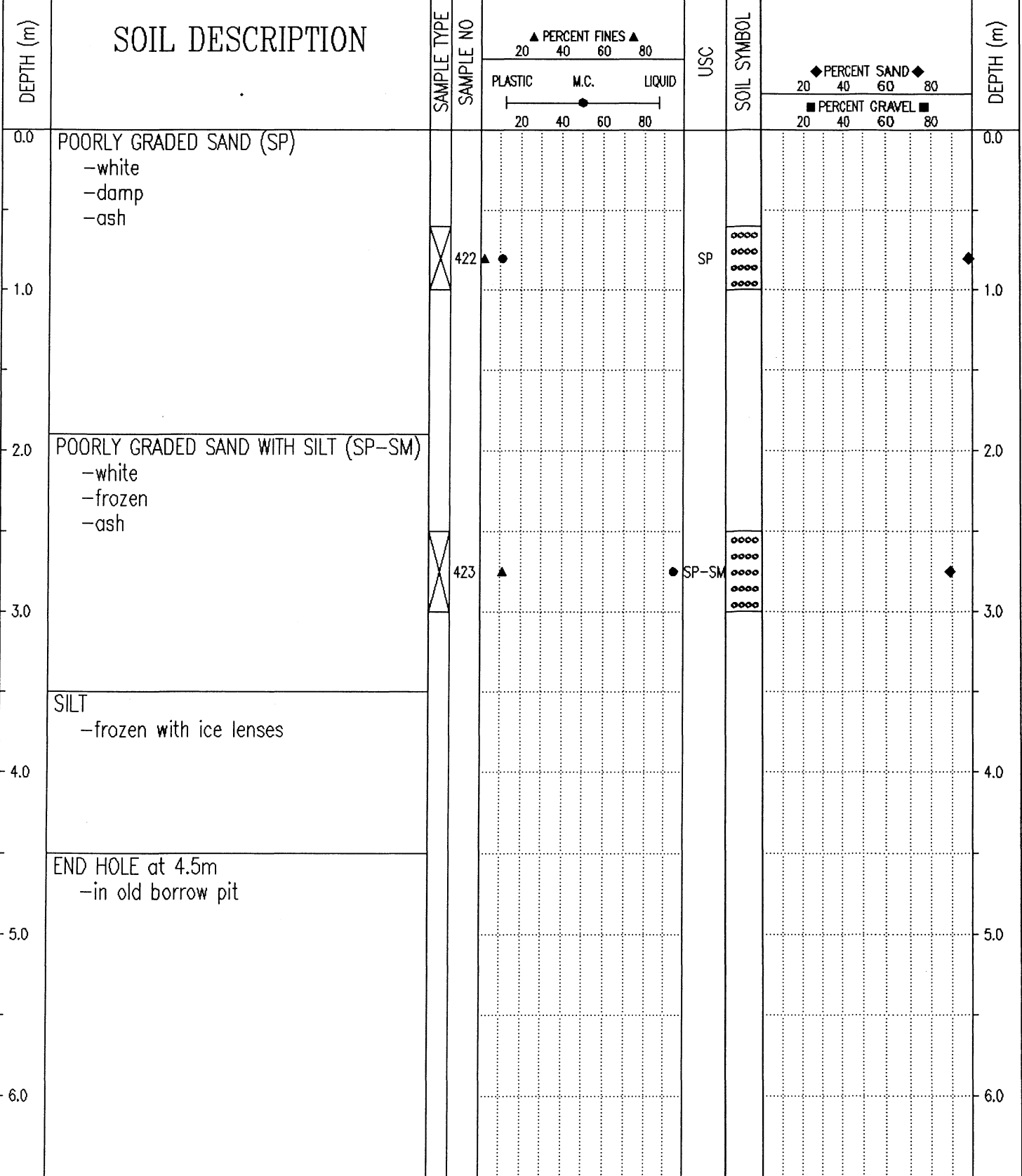
SAMPLE TYPE  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



94/10/24 01:36PM

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 263-322
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1850+975 o/s 15m Lt.	ELEVATION: 0.00 (m)

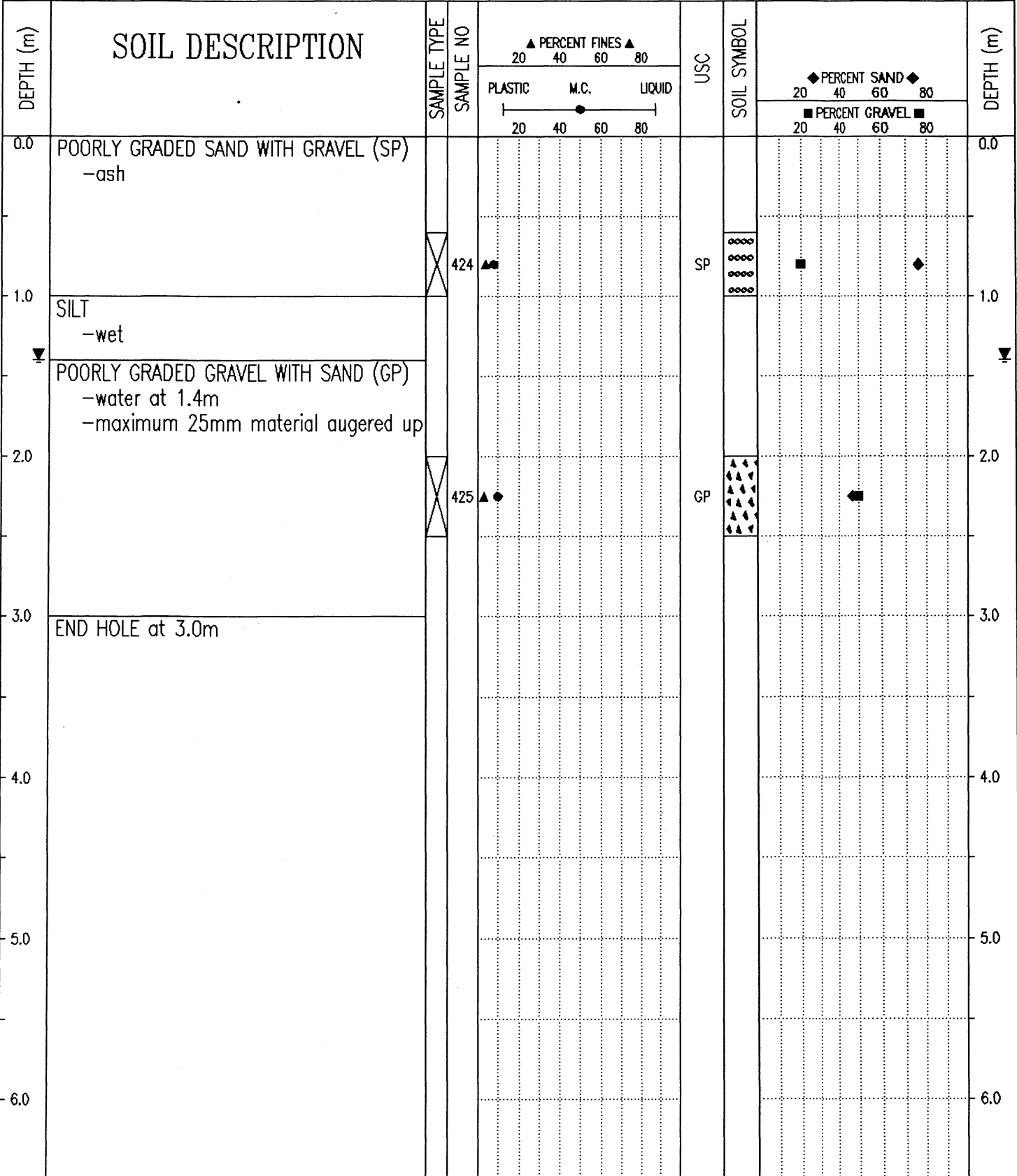
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



Government of Yukon  
Transportation Engineering

LOGGED BY: GC	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 93/10/06
Fig. No:	Page 1 of 1

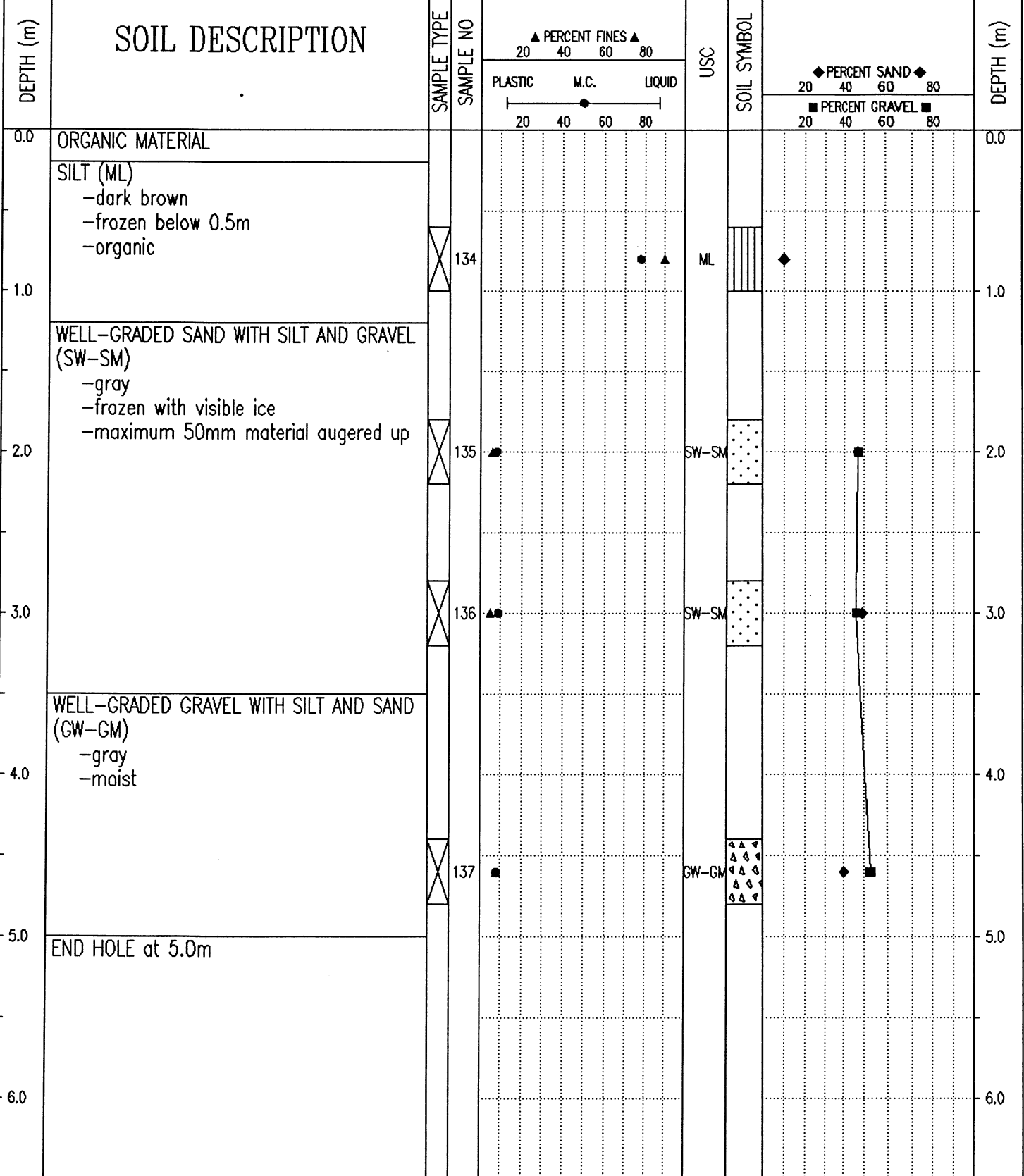
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 263-323
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL:CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1851+150 o/s 10m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" 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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Transportation Engineering

LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/06
Fig. No:	Page 1 of 1

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



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Transportation Engineering

LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/20
Fig. No:	Page 1 of 1

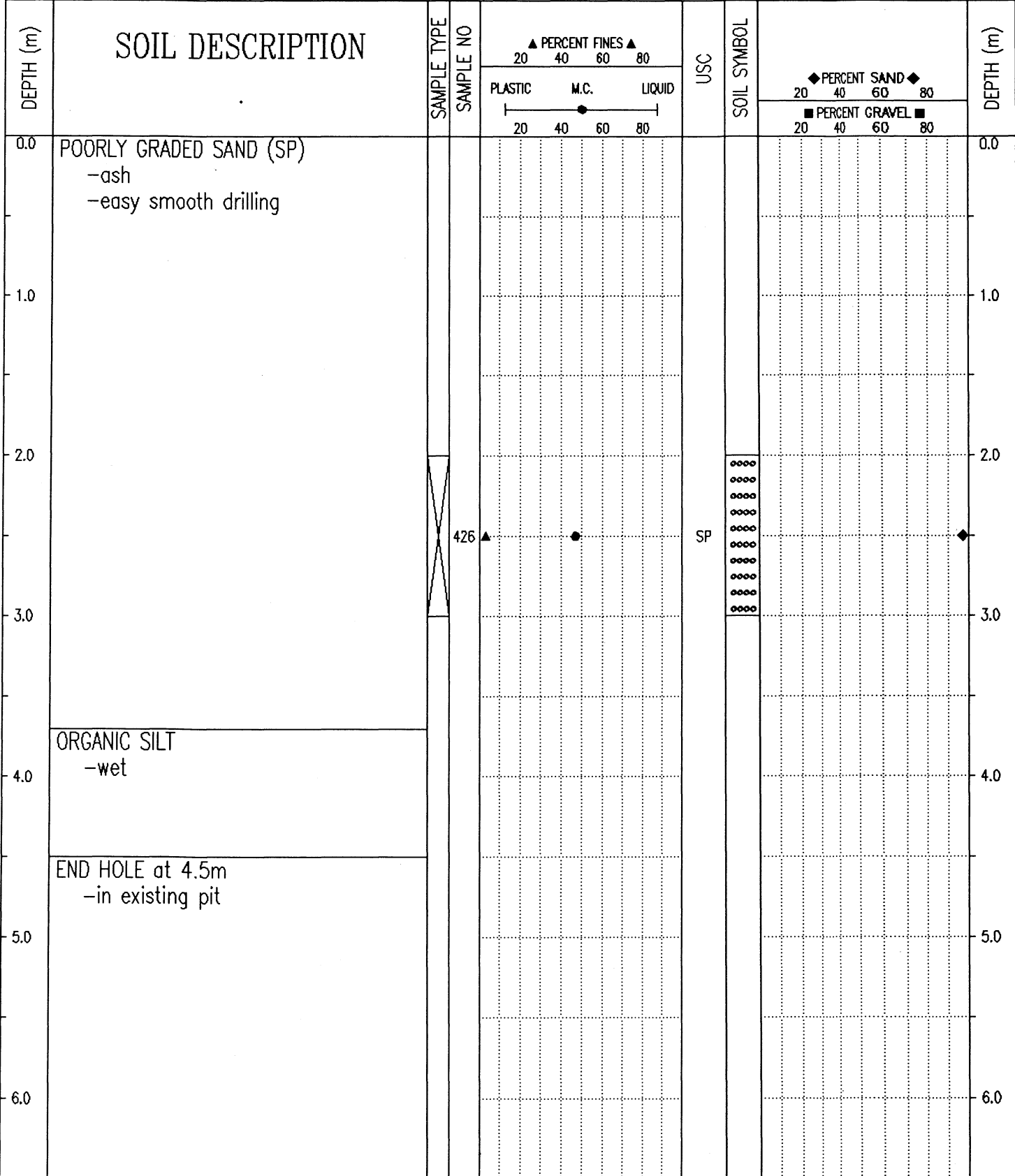
SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY RE-CONSTRUCTION		TEST PIT NO: 304-42									
SHAKWAK PROJECT		SEGMENT 15		Project No: 092-202101-0311									
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: See Plan		ELEVATION: 0.00 (m)									
SAMPLE TYPE		RETURN		S.P.T.									
		AUGER		BULK									
		TUBE		CORE									
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■				
0.0	ORGANIC MATERIAL POORLY GRADED SAND WITH SILT TO POORLY GRADED SAND (SP-SM TO SP) -light gray -damp			20	40	60	80		20	40	60	80	0.0
1.0		X	130	▲	●			SP-SM	◆				1.0
2.0		X	131	▲	●			SP	◆				2.0
3.0		X	132	▲	●			SP-SM	◆				3.0
4.0		X	133	▲	●			SP	◆				4.0
5.0	END HOLE at 5.0m												5.0
6.0													6.0

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Transportation Engineering

LOGGED BY: DA  
REVIEWED BY:  
Fig. No:  
COMPLETION DEPTH: 5.0 m  
COMPLETE: 94/07/20  
Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 263-324
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1851+400 o/s 125m Lt.	ELEVATION: 0.00 (m)

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

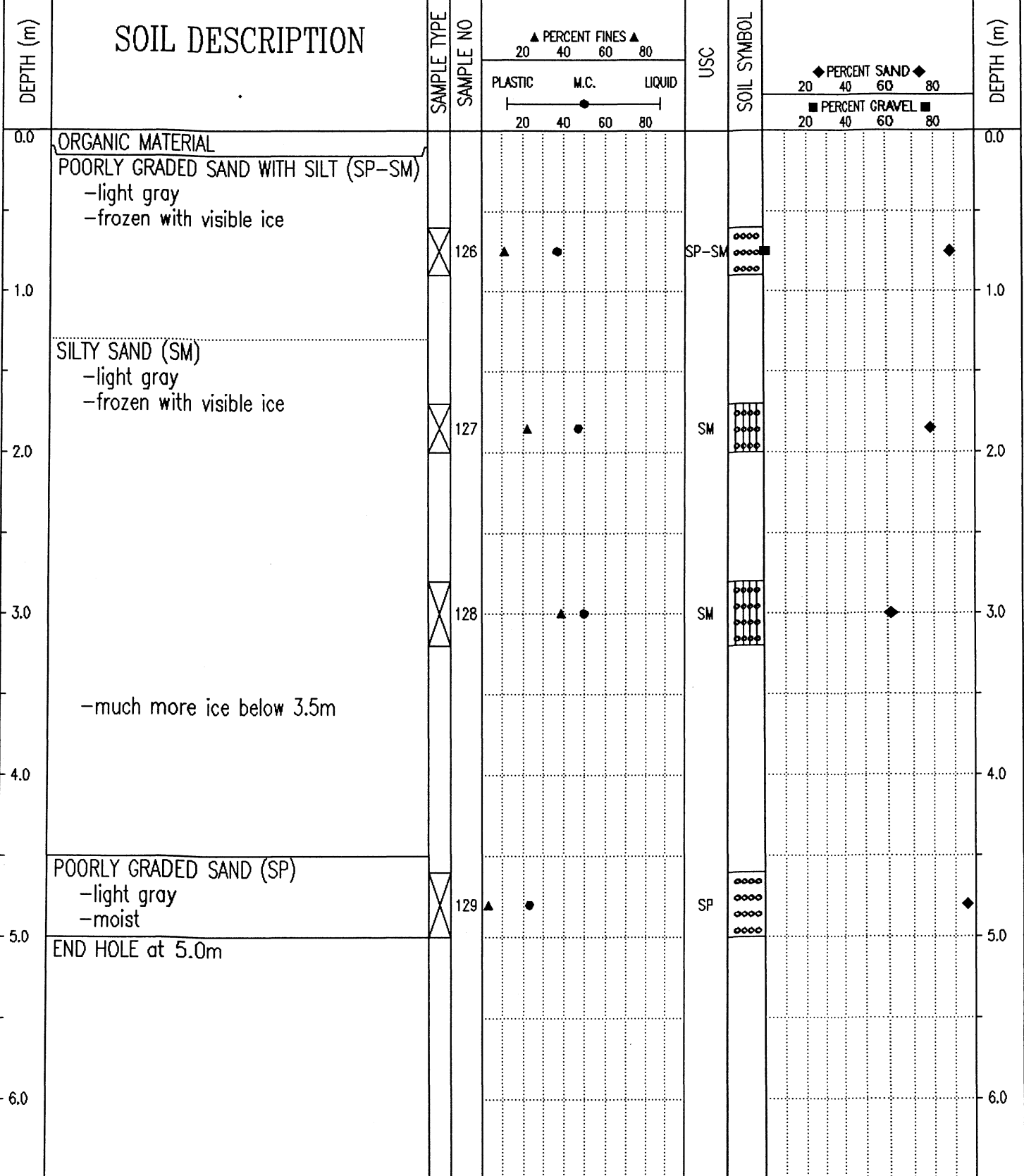


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Transportation Engineering

LOGGED BY: GC  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.5 m  
COMPLETE: 93/10/06

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

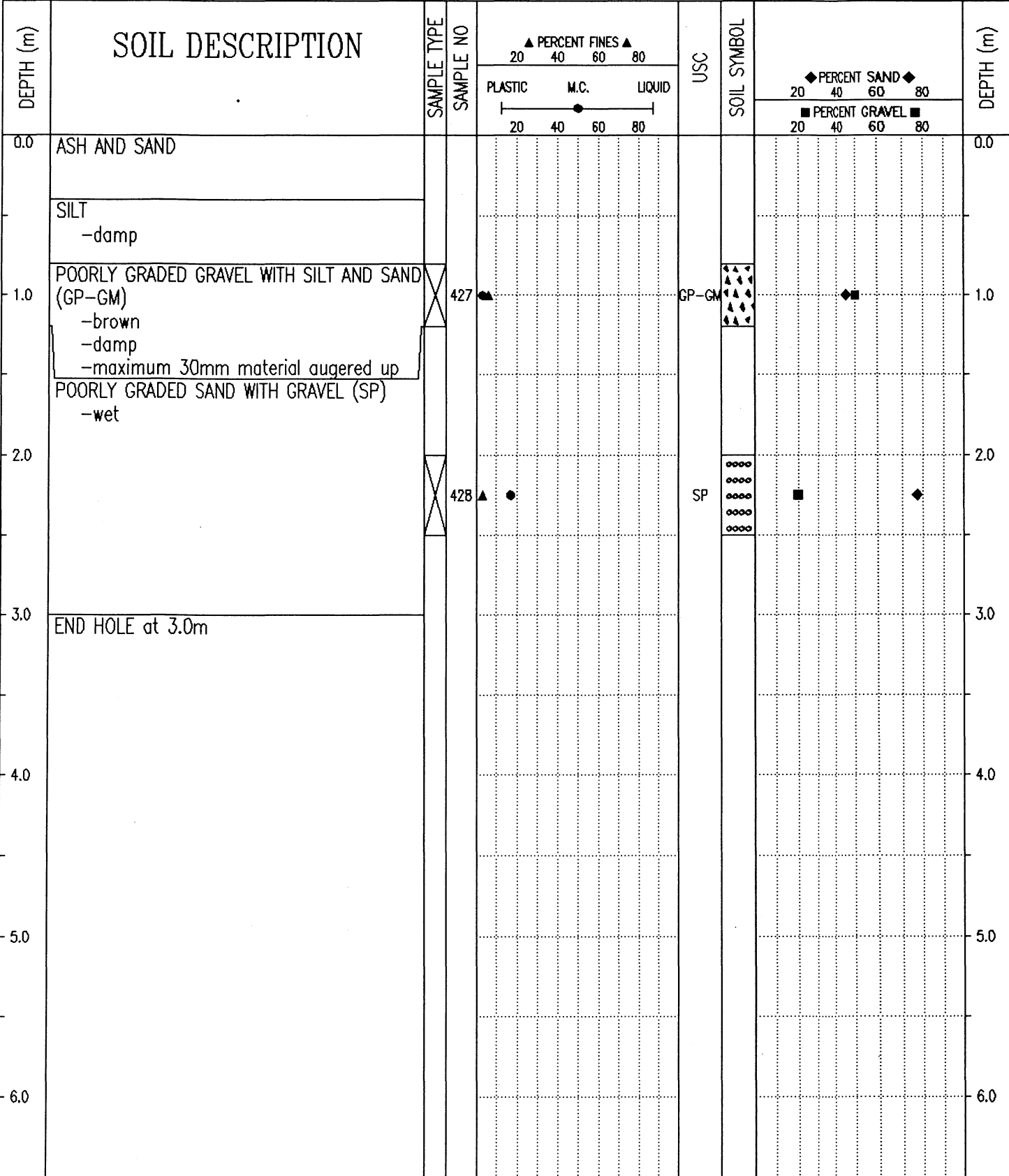


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Transportation Engineering

LOGGED BY: DA	COMPLETION DEPTH: 5.0 m
REVIEWED BY:	COMPLETE: 94/07/20
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 263-325
SHAKWAK PROJECT	SEGMENT 15	Project No: 202101-0311-193
DRILL: CME 750 150mm Dia SOLID STEM AUGER	LOCATION: STA 1851+600 o/s 10m Lt.	ELEVATION: 0.00 (m)

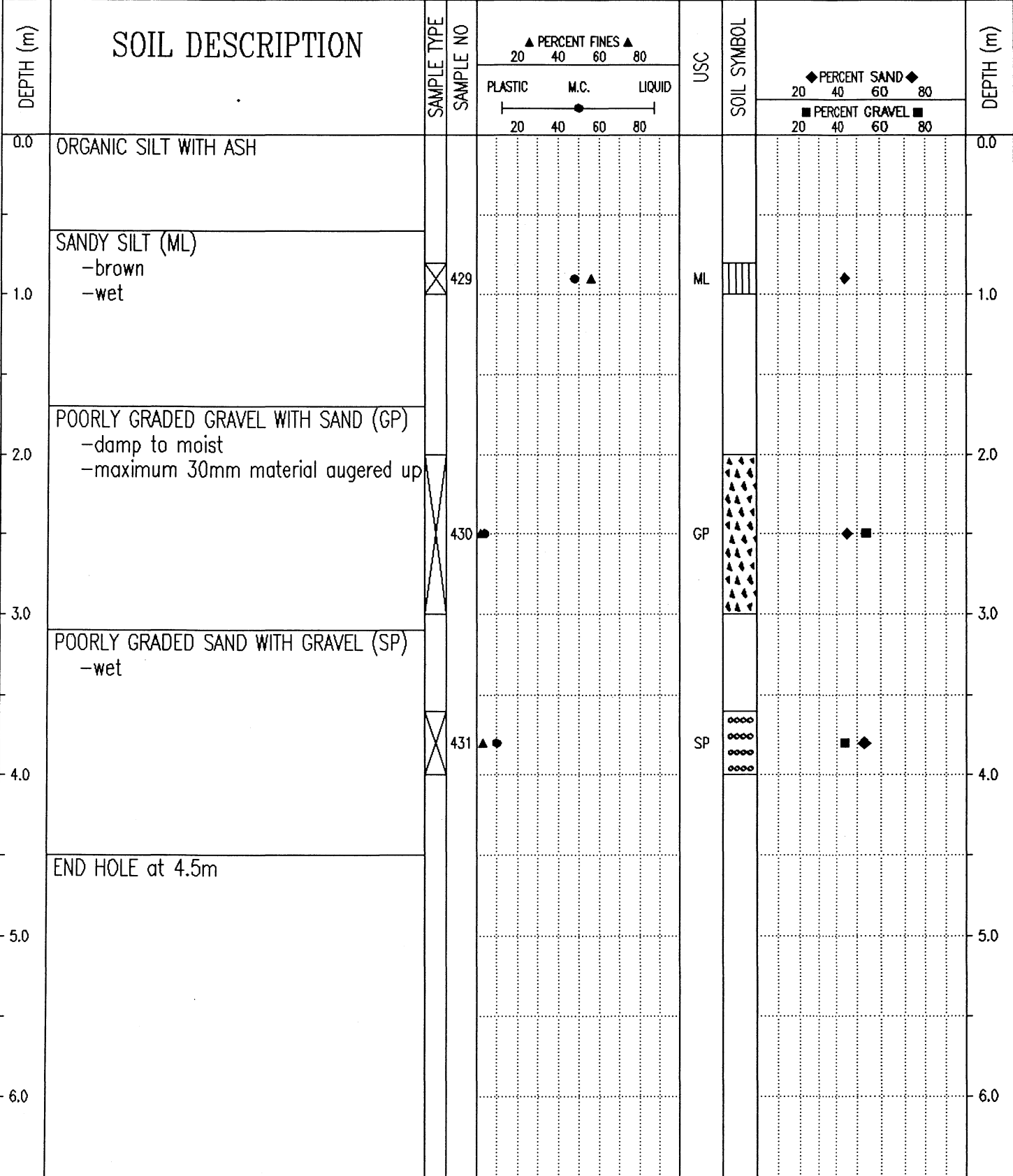
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



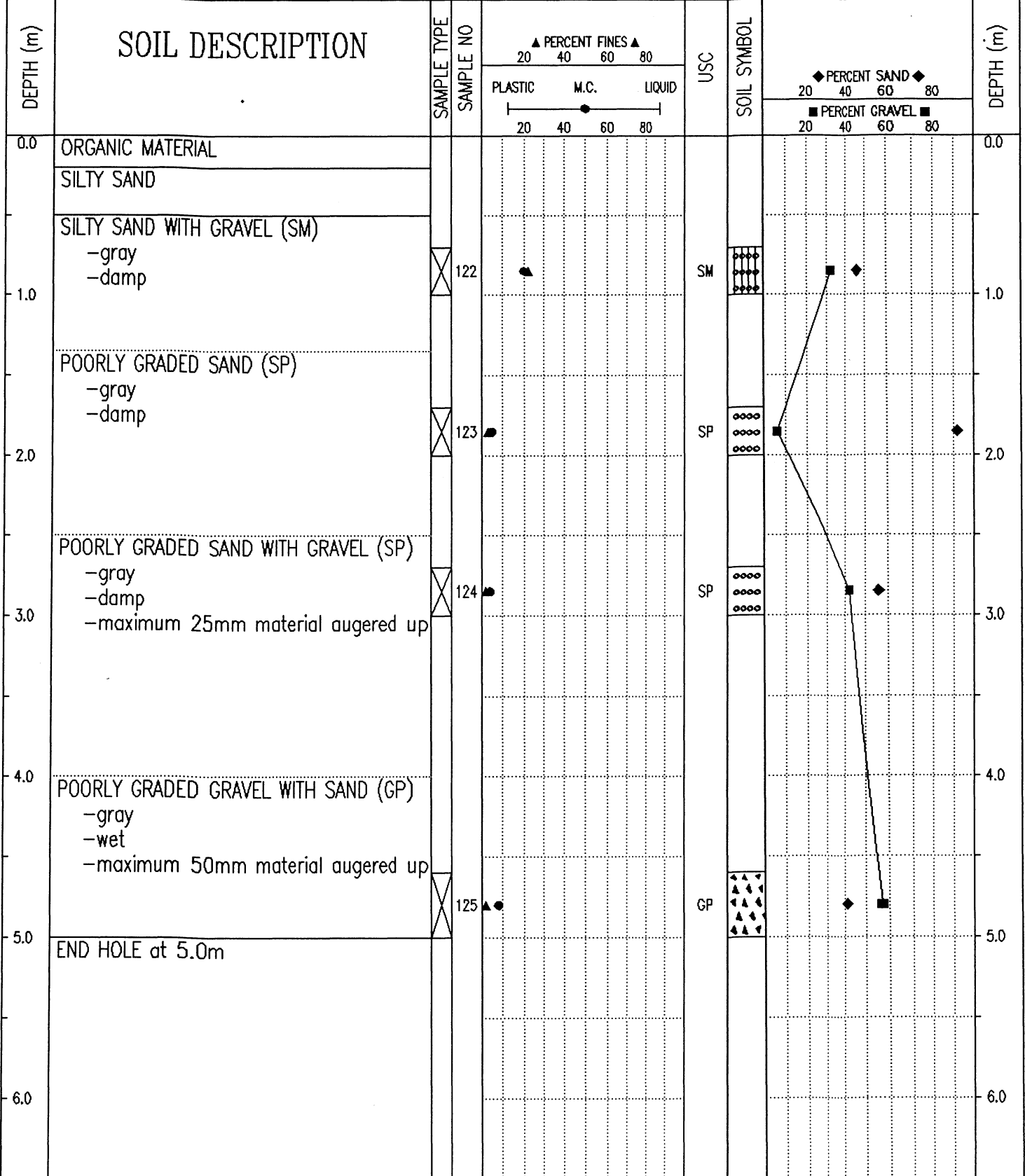
Government of Yukon  
Transportation Engineering

LOGGED BY: GC	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 93/10/06
Fig. No:	Page 1 of 1

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



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



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LOGGED BY: DA

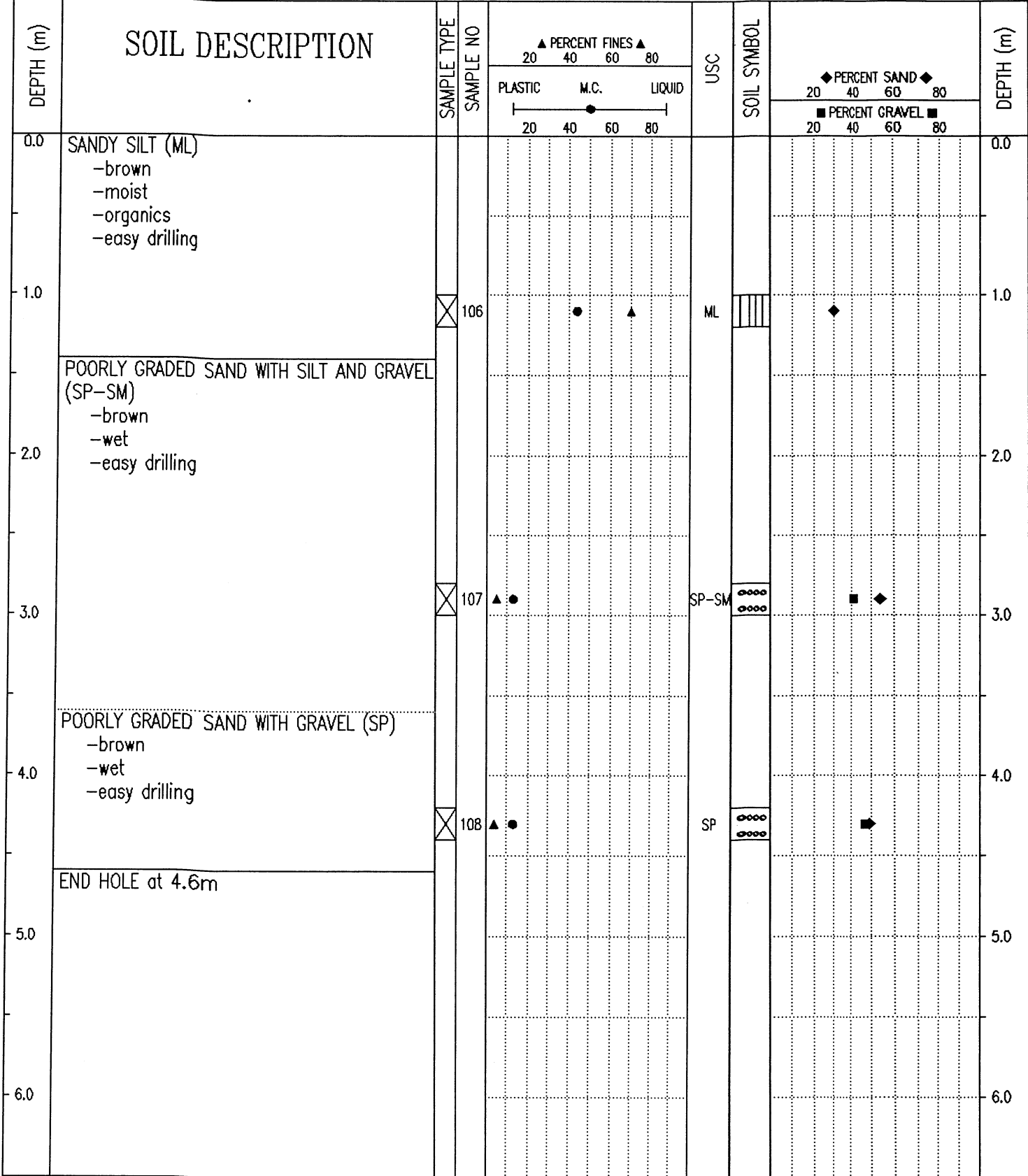
REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 5.0 m

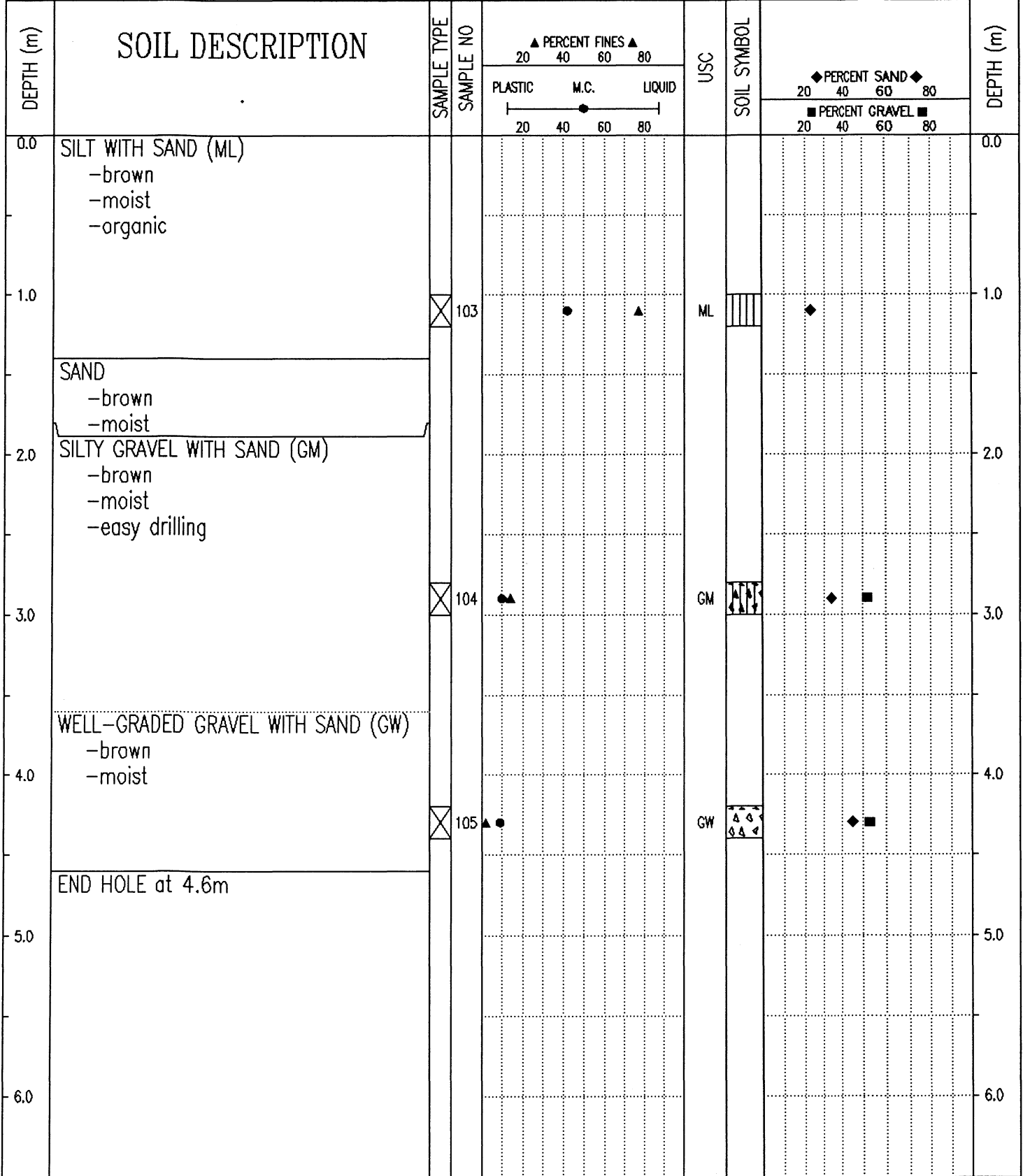
COMPLETE: 94/07/20

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 573-37
ENGINEERING-CAPITAL		SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1851+786	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: LW	COMPLETION DEPTH: 4.6 m
	REVIEWED BY:	COMPLETE: 82/11/03
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 573-36
ENGINEERING-CAPITAL		SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1851+886	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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LOGGED BY: LW

REVIEWED BY:

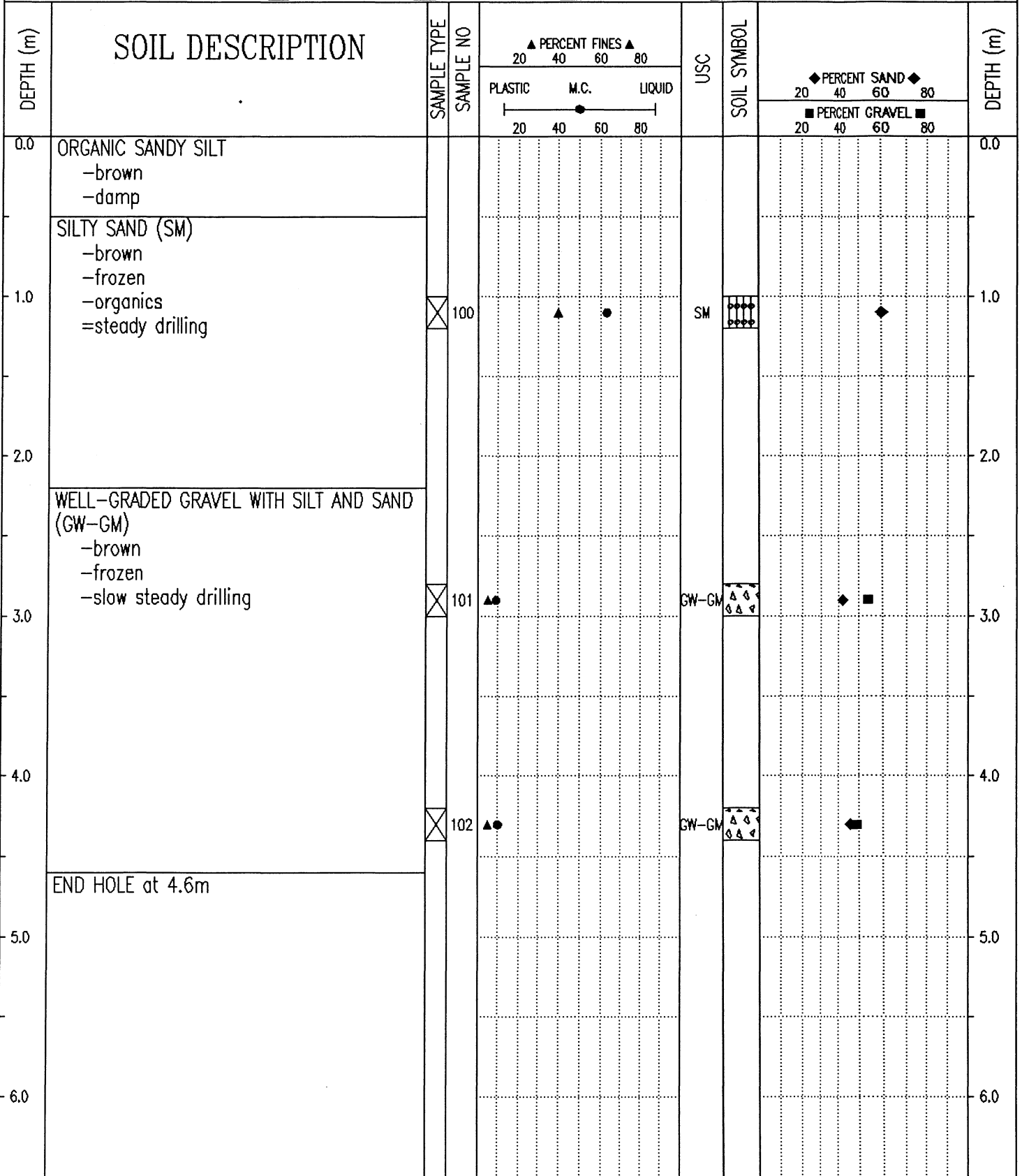
Fig. No:

COMPLETION DEPTH: 4.6 m

COMPLETE: 82/11/03

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 573-35
ENGINEERING-CAPITAL	SEGMENT 15	Project No: 092-202101-0311
DRILL: B40L 150mm SOLID STEM AUGER	LOCATION: Sta. 1851+984 o/s 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

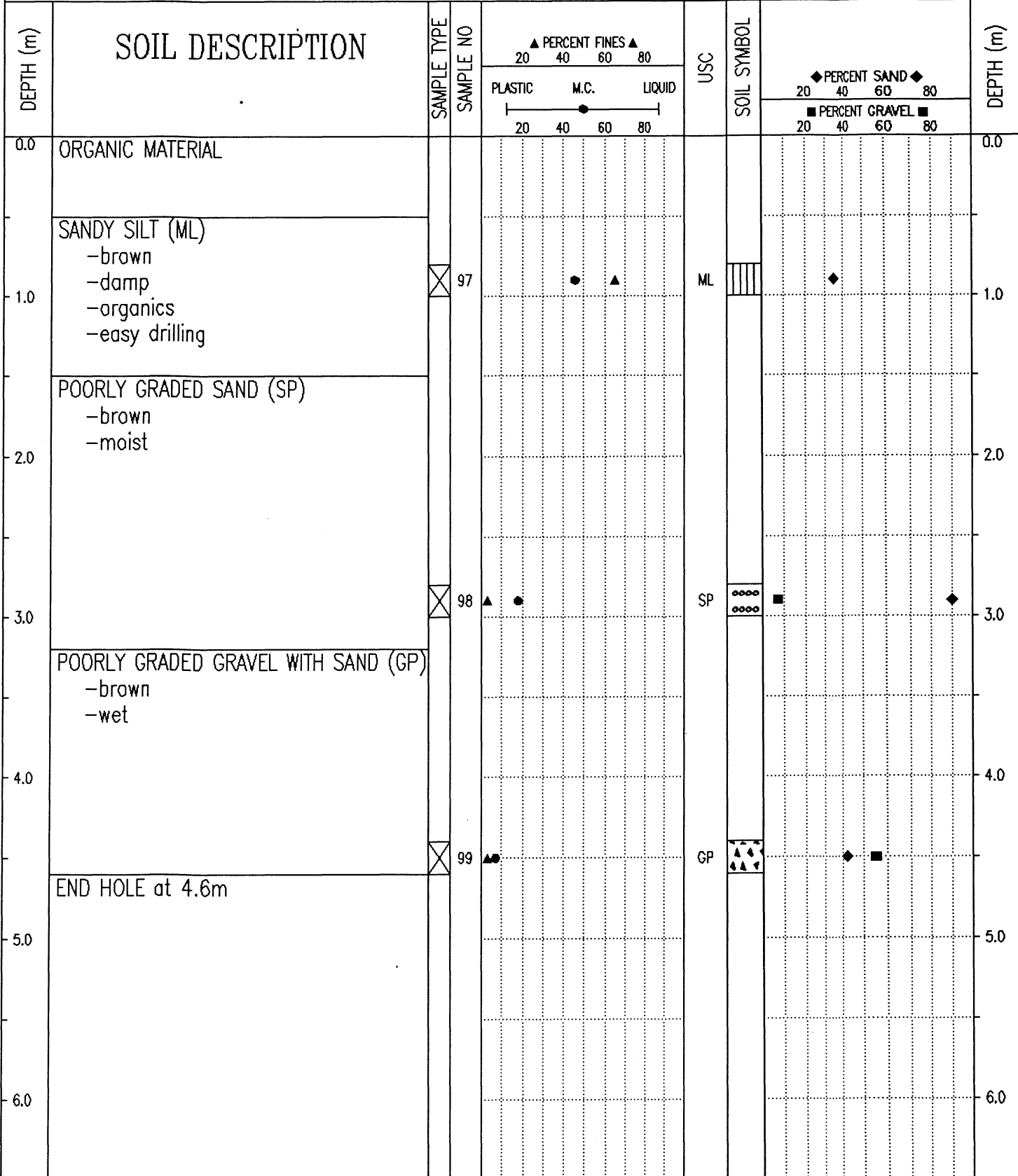


Government of Yukon  
Transportation Engineering

LOGGED BY: LW  
REVIEWED BY:  
Fig. No:

COMPLETION DEPTH: 4.6 m  
COMPLETE: 82/11/03

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



95/02/22 02:56PM

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 573-33							
ENGINEERING-CAPITAL		SEGMENT 15		Project No: 092-202101-0311							
DRILL: B40L 150mm SOLID STEM AUGER		LOCATION: Sta. 1852+124 o/s 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 & GRAVEL		DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT SAND	PERCENT GRAVEL	
0.0	ORGANIC MATERIAL									0.0	
1.0	SILT WITH SAND (ML) -brown -damp -organics	<input checked="" type="checkbox"/>	92				ML		◆	1.0	
2.0	POORLY GRADED SAND WITH GRAVEL (SP) -brown -damp -easy drilling	<input checked="" type="checkbox"/>	93	▲			SP	○○○○	■ ◆	2.0	
4.0	WELL TO POORLY GRADED GRAVEL WITH SAND (GW TO GP) -brown -wet -water at 3.7m -easy drilling	<input checked="" type="checkbox"/>	94	▲ ●			GW	▲▲▲	◆ ■	4.0	
8.0		<input checked="" type="checkbox"/>	95	▲ ●			GP	▲▲▲	◆ ■	8.0	
9.0	-sand and gravel layers below 8.8m									9.0	
12.0		<input checked="" type="checkbox"/>	96	▲ ●			GP	▲▲▲	◆ ■	12.0	
13.0	END HOLE at 13.0m									13.0	

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LOGGED BY: LW

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 13.0 m

COMPLETE: 82/11/03

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PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-255  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1844+375 O/S 15M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 291  
 LAB NO: 1577  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 292  
 LAB NO: 1578  
 DEPTH: 2.0-3.0  
 TYPE: AUGER  
 ASH

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	97
2.0	--
1.25	94
0.840	--
0.630	81
0.420	--
0.315	32
0.160	10
0.150	--
0.080	6

M.C. (%): 39

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 94  
 % FINES: 6

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	99
0.840	--
0.630	95
0.420	--
0.315	77
0.160	27
0.150	--
0.080	5

M.C. (%): 50

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 95  
 % FINES: 5

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-256  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1844+510 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 293  
 LAB NO: 1579  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 294  
 LAB NO: 1580  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	94
10.0	90
5.0	79
2.5	72
2.0	--
1.25	68
0.840	--
0.630	61
0.420	--
0.315	28
0.160	6
0.150	--
0.080	3

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	96
5.0	92
2.5	89
2.0	--
1.25	85
0.840	--
0.630	71
0.420	--
0.315	29
0.160	6
0.150	--
0.080	2

M.C. (%): 23

M.C. (%): 42

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 21  
 % SAND: 76  
 % FINES: 3

% GRAVEL: 8  
 % SAND: 90  
 % FINES: 2

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-257  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1844+600 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 295  
 LAB NO: 1581  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 296  
 LAB NO: 1582  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	89
5.0	78
2.5	68
2.0	--
1.25	61
0.840	--
0.630	54
0.420	--
0.315	28
0.160	9
0.150	--
0.080	4

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	95
0.840	--
0.630	73
0.420	--
0.315	32
0.160	7
0.150	--
0.080	1

M.C. (%): 14

M.C. (%): 59

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 22  
 % SAND: 74  
 % FINES: 4

% GRAVEL: 0  
 % SAND: 99  
 % FINES: 1

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-258  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1844+700 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 297  
 LAB NO: 1583  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 298  
 LAB NO: 1584  
 DEPTH: 2.0-3.0  
 TYPE: AUGER  
 ASH

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	98
2.5	95
2.0	--
1.25	91
0.840	--
0.630	82
0.420	--
0.315	29
0.160	4
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	93
0.840	--
0.630	69
0.420	--
0.315	28
0.160	5
0.150	--
0.080	1

M.C. (%): 6

M.C. (%): 68

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 2  
 % SAND: 96  
 % FINES: 2

% GRAVEL: 0  
 % SAND: 99  
 % FINES: 1

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-259  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1844+800 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 299  
 LAB NO: 1585  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 300  
 LAB NO: 1586  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	94
2.5	90
2.0	--
1.25	87
0.840	--
0.630	81
0.420	--
0.315	35
0.160	5
0.150	--
0.080	1

M.C. (%): 15

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 6  
 % SAND: 93  
 % FINES: 1

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	97
0.840	--
0.630	69
0.420	--
0.315	25
0.160	9
0.150	--
0.080	3

M.C. (%): 74

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 97  
 % FINES: 3

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-260  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1844+900 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 301  
 LAB NO: 1587  
 DEPTH: 0.6-1.4  
 TYPE: AUGER

FIELD NO: 302  
 LAB NO: 1588  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	89
0.160	43
0.150	--
0.080	12

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	89
10.0	86
5.0	78
2.5	73
2.0	--
1.25	68
0.840	--
0.630	61
0.420	--
0.315	41
0.160	28
0.150	--
0.080	21

M.C. (%): 16

M.C. (%): 23

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 88  
 % FINES: 12

% GRAVEL: 22  
 % SAND: 57  
 % FINES: 21

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-261  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+000 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 303  
 LAB NO: 1589  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 304  
 LAB NO: 1590  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	97
5.0	92
2.5	88
2.0	--
1.25	86
0.840	--
0.630	81
0.420	--
0.315	70
0.160	52
0.150	--
0.080	33

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	91
10.0	86
5.0	79
2.5	74
2.0	--
1.25	70
0.840	--
0.630	63
0.420	--
0.315	48
0.160	34
0.150	--
0.080	25

M.C. (%): 32

M.C. (%): 33

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 8  
 % SAND: 59  
 % FINES: 33

% GRAVEL: 21  
 % SAND: 53  
 % FINES: 25

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-262  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+100 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 305  
 LAB NO: 1591  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 306  
 LAB NO: 1592  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	91
0.160	75
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	94
0.420	--
0.315	80
0.160	64
0.150	--
0.080	39

M.C. (%): 33

M.C. (%): 46

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 54  
 % FINES: 46

% GRAVEL: 0  
 % SAND: 61  
 % FINES: 39

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-263  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+200 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 307  
 LAB NO: 1593  
 DEPTH: 0.2-1.0  
 TYPE: AUGER

FIELD NO: 308  
 LAB NO: 1594  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	79
12.5	58
10.0	53
5.0	39
2.5	30
2.0	--
1.25	23
0.840	--
0.630	18
0.420	--
0.315	10
0.160	5
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	65
20.0	58
12.5	41
10.0	34
5.0	25
2.5	19
2.0	--
1.25	14
0.840	--
0.630	9
0.420	--
0.315	5
0.160	3
0.150	--
0.080	2

M.C. (%): 3

M.C. (%): 4

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 61  
 % SAND: 36  
 % FINES: 3

% GRAVEL: 75  
 % SAND: 23  
 % FINES: 2

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SAND  
 (GW)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-264  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+300 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 309  
 LAB NO: 1595  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	98
5.0	94
2.5	92
2.0	--
1.25	90
0.840	--
0.630	86
0.420	--
0.315	79
0.160	71
0.150	--
0.080	55

M.C. (%): 48

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 6  
 % SAND: 40  
 % FINES: 55

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-265  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+400 O/S 8M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 310  
 LAB NO: 1596  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	86
10.0	80
5.0	67
2.5	54
2.0	--
1.25	39
0.840	--
0.630	20
0.420	--
0.315	6
0.160	3
0.150	--
0.080	2

M.C. (%): 13

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 33  
 % SAND: 65  
 % FINES: 2

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-266  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+500 O/S 10M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 311  
 LAB NO: 1597  
 DEPTH: 0.4-1.0  
 TYPE: AUGER

FIELD NO: 312  
 LAB NO: 1598  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	60
20.0	60
12.5	55
10.0	55
5.0	48
2.5	45
2.0	--
1.25	43
0.840	--
0.630	42
0.420	--
0.315	38
0.160	32
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	66
20.0	63
12.5	52
10.0	49
5.0	41
2.5	33
2.0	--
1.25	28
0.840	--
0.630	22
0.420	--
0.315	17
0.160	13
0.150	--
0.080	10

M.C. (%): 22

M.C. (%): 16

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 52  
 % SAND: 25  
 % FINES: 23

% GRAVEL: 59  
 % SAND: 31  
 % FINES: 10

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-267  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+600 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 313  
 LAB NO: 1599  
 DEPTH: 1.6-2.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	97
2.0	--
1.25	96
0.840	--
0.630	92
0.420	--
0.315	79
0.160	62
0.150	--
0.080	43

M.C. (%): 47

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 57  
 % FINES: 43

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-268  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+700 O/S 8M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 314  
 LAB NO: 1600  
 DEPTH: 1.0-2.0  
 TYPE: AUGER

FIELD NO: 315  
 LAB NO: 1601  
 DEPTH: 2.25-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	91
0.160	72
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	84
10.0	81
5.0	76
2.5	74
2.0	--
1.25	72
0.840	--
0.630	69
0.420	--
0.315	60
0.160	45
0.150	--
0.080	30

M.C. (%) : 33

M.C. (%) : 26

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 53  
 % FINES: 47

% GRAVEL: 24  
 % SAND: 47  
 % FINES: 30

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-269  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+800 O/S 5M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 316  
 LAB NO: 1602  
 DEPTH: 0.4-1.0  
 TYPE: AUGER

FIELD NO: 317  
 LAB NO: 1603  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	91
0.420	--
0.315	53
0.160	12
0.150	--
0.080	4

100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	76
12.5	68
10.0	62
5.0	51
2.5	44
2.0	--
1.25	36
0.840	--
0.630	25
0.420	--
0.315	13
0.160	6
0.150	--
0.080	4

M.C. (%): 26

M.C. (%): 16

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 96  
 % FINES: 4

% GRAVEL: 49  
 % SAND: 47  
 % FINES: 4

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-270  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1845+900  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 318  
 LAB NO: 1604  
 DEPTH: 0.6-1.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	87
0.160	68
0.150	--
0.080	46

M.C. (%): 39

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 54  
 % FINES: 46

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-271  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+000 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 319  
 LAB NO: 1605  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 320  
 LAB NO: 1606  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	97
5.0	95
2.5	93
2.0	--
1.25	92
0.840	--
0.630	83
0.420	--
0.315	32
0.160	6
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	75
10.0	72
5.0	63
2.5	56
2.0	--
1.25	50
0.840	--
0.630	37
0.420	--
0.315	14
0.160	3
0.150	--
0.080	2

M.C. (%): 26

M.C. (%): 25

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 5  
 % SAND: 92  
 % FINES: 3

% GRAVEL: 37  
 % SAND: 61  
 % FINES: 2

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-272  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+000 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 321  
 LAB NO: 1607  
 DEPTH: 0.4-1.0  
 TYPE: AUGER

FIELD NO: 322  
 LAB NO: 1608  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	90
12.5	65
10.0	58
5.0	43
2.5	35
2.0	--
1.25	30
0.840	--
0.630	23
0.420	--
0.315	14
0.160	9
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	85
10.0	80
5.0	63
2.5	51
2.0	--
1.25	39
0.840	--
0.630	25
0.420	--
0.315	12
0.160	8
0.150	--
0.080	6

M.C. (%): 5

M.C. (%): 7

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 57  
 % SAND: 37  
 % FINES: 7

% GRAVEL: 37  
 % SAND: 58  
 % FINES: 6

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-273  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+200 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 323  
 LAB NO: 1609  
 DEPTH: 0.4-1.0  
 TYPE: AUGER

FIELD NO: 324  
 LAB NO: 1610  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

FIELD NO: 325  
 LAB NO: 1611  
 DEPTH: 3.5-4.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	97
2.5	95
2.0	--
1.25	93
0.840	--
0.630	90
0.420	--
0.315	83
0.160	68
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	60
31.5	--
25.0	52
20.0	47
12.5	45
10.0	43
5.0	35
2.5	31
2.0	--
1.25	28
0.840	--
0.630	23
0.420	--
0.315	17
0.160	12
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	72
12.5	64
10.0	60
5.0	50
2.5	44
2.0	--
1.25	39
0.840	--
0.630	33
0.420	--
0.315	25
0.160	17
0.150	--
0.080	12

M.C. (%): 15

M.C. (%): 5

M.C. (%): 11

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 3  
 % SAND: 45  
 % FINES: 52

% GRAVEL: 65  
 % SAND: 27  
 % FINES: 8

% GRAVEL: 50  
 % SAND: 39  
 % FINES: 12

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-274  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+300 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 326  
 LAB NO: 1612  
 DEPTH: 0.6-1.2  
 TYPE: AUGER

FIELD NO: 327  
 LAB NO: 1613  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	92
0.420	--
0.315	87
0.160	77
0.150	--
0.080	62

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	91
0.160	72
0.150	--
0.080	49

M.C. (%): 43

M.C. (%): 24

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 38  
 % FINES: 62

% GRAVEL: 0  
 % SAND: 51  
 % FINES: 49

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-275  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+400 O/S 15M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 328  
 LAB NO: 1614  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 329  
 LAB NO: 1615  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	91
0.160	89
0.150	--
0.080	85

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	73
20.0	64
12.5	58
10.0	57
5.0	51
2.5	48
2.0	--
1.25	46
0.840	--
0.630	44
0.420	--
0.315	40
0.160	36
0.150	--
0.080	28

M.C. (%): 38

M.C. (%): 16

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 15  
 % FINES: 85

% GRAVEL: 49  
 % SAND: 23  
 % FINES: 28

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-276  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+500 O/S 15M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 330  
 LAB NO: 1616  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 331  
 LAB NO: 1617  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	96
0.420	--
0.315	93
0.160	84
0.150	--
0.080	75

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	84
12.5	74
10.0	70
5.0	62
2.5	56
2.0	--
1.25	51
0.840	--
0.630	46
0.420	--
0.315	40
0.160	33
0.150	--
0.080	24

M.C. (%): 25

M.C. (%): 14

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 25  
 % FINES: 75

% GRAVEL: 38  
 % SAND: 38  
 % FINES: 24

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-277  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+600 O/S 3M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 332  
 LAB NO: 1618  
 DEPTH: 1.0-2.0  
 TYPE: AUGER

FIELD NO: 333  
 LAB NO: 1619  
 DEPTH: 2.5-3.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	94
0.160	87
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	77
12.5	74
10.0	67
5.0	55
2.5	49
2.0	--
1.25	41
0.840	--
0.630	32
0.420	--
0.315	25
0.160	20
0.150	--
0.080	15

M.C. (%): 19

M.C. (%): 5

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 41  
 % FINES: 59

% GRAVEL: 45  
 % SAND: 40  
 % FINES: 15

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-278  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+700 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 334  
 LAB NO: 1620  
 DEPTH: 0.6-1.2  
 TYPE: AUGER

FIELD NO: 335  
 LAB NO: 1621  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	82
12.5	78
10.0	76
5.0	69
2.5	59
2.0	--
1.25	45
0.840	--
0.630	28
0.420	--
0.315	15
0.160	8
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	63
20.0	55
12.5	48
10.0	45
5.0	35
2.5	29
2.0	--
1.25	23
0.840	--
0.630	18
0.420	--
0.315	13
0.160	10
0.150	--
0.080	8

M.C. (%): 4

M.C. (%): 4

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 31  
 % SAND: 63  
 % FINES: 6

% GRAVEL: 65  
 % SAND: 27  
 % FINES: 8

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-279  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+800 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 336  
 LAB NO: 1622  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 337  
 LAB NO: 1623  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	73
20.0	70
12.5	59
10.0	55
5.0	48
2.5	43
2.0	--
1.25	41
0.840	--
0.630	37
0.420	--
0.315	30
0.160	20
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	57
12.5	46
10.0	42
5.0	36
2.5	32
2.0	--
1.25	28
0.840	--
0.630	22
0.420	--
0.315	13
0.160	8
0.150	--
0.080	6

M.C. (%): 9

M.C. (%): 4

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 52  
 % SAND: 34  
 % FINES: 13

% GRAVEL: 64  
 % SAND: 30  
 % FINES: 6

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-280  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1846+900 o/s 5m Lt.  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 338  
 LAB NO: 1624  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 339  
 LAB NO: 1625  
 DEPTH: 1.6-2.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	93
0.160	85
0.150	--
0.080	71

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	79
12.5	71
10.0	70
5.0	62
2.5	55
2.0	--
1.25	47
0.840	--
0.630	36
0.420	--
0.315	24
0.160	18
0.150	--
0.080	15

M.C. (%): 33

M.C. (%): 8

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 29  
 % FINES: 71

% GRAVEL: 38  
 % SAND: 47  
 % FINES: 15

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-281  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+000 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.04

FIELD NO: 340  
 LAB NO: 1626  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 341  
 LAB NO: 1627  
 DEPTH: 1.8-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	71
12.5	53
10.0	49
5.0	37
2.5	29
2.0	--
1.25	23
0.840	--
0.630	18
0.420	--
0.315	13
0.160	9
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	83
12.5	64
10.0	55
5.0	38
2.5	29
2.0	--
1.25	22
0.840	--
0.630	15
0.420	--
0.315	8
0.160	5
0.150	--
0.080	3

M.C. (%): 4

M.C. (%): 3

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 63  
 % SAND: 31  
 % FINES: 6

% GRAVEL: 62  
 % SAND: 35  
 % FINES: 3

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SAND  
 (GW)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-286  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+100 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 352  
 LAB NO: 1638  
 DEPTH: 0.4-1.2  
 TYPE: AUGER

FIELD NO: 353  
 LAB NO: 1639  
 DEPTH: 1.6-2.6  
 TYPE: AUGER

FIELD NO: 354  
 LAB NO: 1640  
 DEPTH: 3.0-4.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	94
0.160	83
0.150	--
0.080	65

100.0	--
80.0	--
50.0	100
31.5	--
25.0	65
20.0	56
12.5	51
10.0	48
5.0	40
2.5	35
2.0	--
1.25	30
0.840	--
0.630	25
0.420	--
0.315	17
0.160	12
0.150	--
0.080	8

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	87
5.0	71
2.5	54
2.0	--
1.25	37
0.840	--
0.630	21
0.420	--
0.315	9
0.160	5
0.150	--
0.080	3

M.C. (%): 20

M.C. (%): 5

M.C. (%): 8

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 35  
 % FINES: 65

% GRAVEL: 60  
 % SAND: 31  
 % FINES: 8

% GRAVEL: 29  
 % SAND: 67  
 % FINES: 3

CLASSIFICATION: SANDY SILT (ML)

CLASSIFICATION: POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION: POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-287  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+200 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 355  
 LAB NO: 1641  
 DEPTH: 0.5-1.2  
 TYPE: AUGER

FIELD NO: 356  
 LAB NO: 1642  
 DEPTH: 1.5-3.0  
 TYPE: AUGER

FIELD NO: 357  
 LAB NO: 1643  
 DEPTH: 3.6-4.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	94
0.420	--
0.315	91
0.160	89
0.150	--
0.080	87

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	64
12.5	55
10.0	50
5.0	37
2.5	29
2.0	--
1.25	23
0.840	--
0.630	18
0.420	--
0.315	13
0.160	9
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	93
5.0	78
2.5	62
2.0	--
1.25	48
0.840	--
0.630	37
0.420	--
0.315	25
0.160	19
0.150	--
0.080	15

M.C. (%): 34

M.C. (%): 4

M.C. (%): 11

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 13  
 % FINES: 87

% GRAVEL: 63  
 % SAND: 30  
 % FINES: 7

% GRAVEL: 22  
 % SAND: 63  
 % FINES: 15

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-288  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+300 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 358  
 LAB NO: 1644  
 DEPTH: 0.6-1.4  
 TYPE: AUGER

FIELD NO: 359  
 LAB NO: 1645  
 DEPTH: 1.5-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	92
0.420	--
0.315	85
0.160	71
0.150	--
0.080	51

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	91
10.0	89
5.0	85
2.5	81
2.0	--
1.25	76
0.840	--
0.630	66
0.420	--
0.315	49
0.160	33
0.150	--
0.080	20

M.C. (%): 17

M.C. (%): 8

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 49  
 % FINES: 51

% GRAVEL: 15  
 % SAND: 65  
 % FINES: 20

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-289  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+400 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 360  
 LAB NO: 1646  
 DEPTH: 1.3-2.0  
 TYPE: AUGER

FIELD NO: 361  
 LAB NO: 1647  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	95
0.840	--
0.630	89
0.420	--
0.315	85
0.160	84
0.150	--
0.080	64

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	89
2.5	81
2.0	--
1.25	74
0.840	--
0.630	64
0.420	--
0.315	41
0.160	23
0.150	--
0.080	14

M.C. (%): 22

M.C. (%): 6

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 36  
 % FINES: 64

% GRAVEL: 11  
 % SAND: 75  
 % FINES: 14

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-290  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+500 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 362  
 LAB NO: 1648  
 DEPTH: 0.8-1.4  
 TYPE: AUGER

FIELD NO: 363  
 LAB NO: 1649  
 DEPTH: 1.5-2.0  
 TYPE: AUGER

FIELD NO: 364  
 LAB NO: 1650  
 DEPTH: 2.2-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	92
0.160	76
0.150	--
0.080	58

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	96
0.160	87
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	93
0.150	--
0.080	86

M.C. (%): 20

M.C. (%): 21

M.C. (%): 40

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 42  
 % FINES: 58

% GRAVEL: 0  
 % SAND: 41  
 % FINES: 59

% GRAVEL: 0  
 % SAND: 14  
 % FINES: 86

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-291  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+600 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 365  
 LAB NO: 1651  
 DEPTH: 0.4-1.0  
 TYPE: AUGER

FIELD NO: 366  
 LAB NO: 1652  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	72
12.5	62
10.0	58
5.0	50
2.5	43
2.0	--
1.25	36
0.840	--
0.630	28
0.420	--
0.315	17
0.160	11
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	77
20.0	68
12.5	59
10.0	55
5.0	46
2.5	39
2.0	--
1.25	32
0.840	--
0.630	22
0.420	--
0.315	8
0.160	3
0.150	--
0.080	2

M.C. (%): 5

M.C. (%): 3

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 50  
 % SAND: 43  
 % FINES: 7

% GRAVEL: 54  
 % SAND: 44  
 % FINES: 2

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-293  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+700 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 367  
 LAB NO: 1653  
 DEPTH: 0.4-1.2  
 TYPE: AUGER

FIELD NO: 368  
 LAB NO: 1654  
 DEPTH: 1.8-2.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	97
0.420	--
0.315	59
0.160	17
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	96
2.5	93
2.0	--
1.25	91
0.840	--
0.630	88
0.420	--
0.315	82
0.160	63
0.150	--
0.080	48

M.C. (%): 14

M.C. (%): 45

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 93  
 % FINES: 7

% GRAVEL: 4  
 % SAND: 48  
 % FINES: 48

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-294  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+800 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 369  
 LAB NO: 1655  
 DEPTH: 0.5-1.2  
 TYPE: AUGER

FIELD NO: 370  
 LAB NO: 1656  
 DEPTH: 2.5-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	67
12.5	54
10.0	45
5.0	33
2.5	25
2.0	--
1.25	21
0.840	--
0.630	18
0.420	--
0.315	9
0.160	4
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	88
12.5	73
10.0	64
5.0	46
2.5	37
2.0	--
1.25	30
0.840	--
0.630	21
0.420	--
0.315	8
0.160	3
0.150	--
0.080	2

M.C. (%): 5

M.C. (%): 8

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 67  
 % SAND: 31  
 % FINES: 2

% GRAVEL: 54  
 % SAND: 44  
 % FINES: 2

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SAND  
 (GW)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-295  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1847+900 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 371  
 LAB NO: 1657  
 DEPTH: 0.6-1.2  
 TYPE: AUGER

FIELD NO: 372  
 LAB NO: 1658  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	98
2.0	--
1.25	97
0.840	--
0.630	91
0.420	--
0.315	57
0.160	17
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	76
12.5	62
10.0	57
5.0	47
2.5	41
2.0	--
1.25	35
0.840	--
0.630	28
0.420	--
0.315	16
0.160	6
0.150	--
0.080	4

M.C. (%): 36

M.C. (%): 11

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 1  
 % SAND: 93  
 % FINES: 6

% GRAVEL: 53  
 % SAND: 43  
 % FINES: 4

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-296  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+050 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 373  
 LAB NO: 1659  
 DEPTH: 0.0-1.5  
 TYPE: AUGER

FIELD NO: 374  
 LAB NO: 1660  
 DEPTH: 1.8-2.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	95
5.0	86
2.5	73
2.0	--
1.25	48
0.840	--
0.630	25
0.420	--
0.315	13
0.160	5
0.150	--
0.080	3

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	92
0.160	57
0.150	--
0.080	38

M.C. (%): 2

M.C. (%): 4

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 14  
 % SAND: 83  
 % FINES: 3

% GRAVEL: 0  
 % SAND: 62  
 % FINES: 38

CLASSIFICATION:  
 WELL-GRADED SAND  
 (SW)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 261-297  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+150 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 375  
 LAB NO: 1661  
 DEPTH: 0.8-1.25  
 TYPE: AUGER

FIELD NO: 376  
 LAB NO: 1662  
 DEPTH: 2.4-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	95
2.0	--
1.25	87
0.840	--
0.630	77
0.420	--
0.315	63
0.160	40
0.150	--
0.080	28

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	97
10.0	95
5.0	93
2.5	92
2.0	--
1.25	91
0.840	--
0.630	89
0.420	--
0.315	83
0.160	59
0.150	--
0.080	30

M.C. (%): 9

M.C. (%): 16

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 72  
 % FINES: 28

% GRAVEL: 7  
 % SAND: 63  
 % FINES: 30

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-298  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+250 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 377  
 LAB NO: 1663  
 DEPTH: 1.5-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	86
12.5	78
10.0	74
5.0	64
2.5	56
2.0	--
1.25	46
0.840	--
0.630	29
0.420	--
0.315	18
0.160	15
0.150	--
0.080	14

M.C. (%): 14

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 36  
 % SAND: 51  
 % FINES: 14

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-299  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+350 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 378  
 LAB NO: 1664  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	84
12.5	62
10.0	49
5.0	30
2.5	24
2.0	--
1.25	21
0.840	--
0.630	17
0.420	--
0.315	13
0.160	11
0.150	--
0.080	9

M.C. (%): 11

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 70  
 % SAND: 21  
 % FINES: 9

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-300  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+450 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 379  
 LAB NO: 1665  
 DEPTH: 0.6-1.2  
 TYPE: AUGER

FIELD NO: 380  
 LAB NO: 1666  
 DEPTH: 1.8-2.4  
 TYPE: AUGER

FIELD NO: 381  
 LAB NO: 1667  
 DEPTH: 3.5-4.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	74
12.5	74
10.0	73
5.0	73
2.5	72
2.0	--
1.25	70
0.840	--
0.630	67
0.420	--
0.315	63
0.160	61
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	83
12.5	67
10.0	62
5.0	48
2.5	41
2.0	--
1.25	37
0.840	--
0.630	32
0.420	--
0.315	25
0.160	21
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	89
10.0	82
5.0	51
2.5	31
2.0	--
1.25	21
0.840	--
0.630	15
0.420	--
0.315	11
0.160	8
0.150	--
0.080	7

M.C. (%): 23

M.C. (%): 11

M.C. (%): 7

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 27  
 % SAND: 14  
 % FINES: 59

% GRAVEL: 52  
 % SAND: 29  
 % FINES: 19

% GRAVEL: 49  
 % SAND: 44  
 % FINES: 7

CLASSIFICATION:  
 GRAVELLY SILT  
 (ML)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-301  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+550 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 382  
 LAB NO: 1668  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

FIELD NO: 383  
 LAB NO: 1669  
 DEPTH: 2.0-2.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	92
0.160	39
0.150	--
0.080	14

100.0	--
80.0	--
50.0	100
31.5	--
25.0	69
20.0	60
12.5	54
10.0	48
5.0	41
2.5	37
2.0	--
1.25	34
0.840	--
0.630	30
0.420	--
0.315	25
0.160	14
0.150	--
0.080	6

M.C. (%) : 7

M.C. (%) : 4

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 86  
 % FINES: 14

% GRAVEL: 59  
 % SAND: 35  
 % FINES: 6

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-302  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+650 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 384  
 LAB NO: 1670  
 DEPTH: 0.4-1.0  
 TYPE: AUGER

FIELD NO: 385  
 LAB NO: 1671  
 DEPTH: 1.6-2.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	95
0.420	--
0.315	88
0.160	70
0.150	--
0.080	53

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	95
2.0	--
1.25	90
0.840	--
0.630	83
0.420	--
0.315	77
0.160	61
0.150	--
0.080	33

M.C. (%): 36

M.C. (%): 22

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 47  
 % FINES: 53

% GRAVEL: 0  
 % SAND: 67  
 % FINES: 33

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-303  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+750 O/S 8M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 386  
 LAB NO: 1672  
 DEPTH: 1.2-1.6  
 TYPE: AUGER

FIELD NO: 387  
 LAB NO: 1673  
 DEPTH: 2.2-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	95
0.160	90
0.150	--
0.080	83

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	88
12.5	73
10.0	70
5.0	58
2.5	50
2.0	--
1.25	42
0.840	--
0.630	33
0.420	--
0.315	19
0.160	9
0.150	--
0.080	6

M.C. (%): 38

M.C. (%): 4

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 17  
 % FINES: 83

% GRAVEL: 42  
 % SAND: 52  
 % FINES: 6

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-304  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+850 O/S 8M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 388  
 LAB NO: 1674  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

FIELD NO: 389  
 LAB NO: 1675  
 DEPTH: 2.0-2.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	90
12.5	84
10.0	80
5.0	71
2.5	66
2.0	--
1.25	62
0.840	--
0.630	56
0.420	--
0.315	48
0.160	41
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	91
5.0	80
2.5	67
2.0	--
1.25	52
0.840	--
0.630	43
0.420	--
0.315	32
0.160	17
0.150	--
0.080	9

M.C. (%): 27

M.C. (%): 6

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 29  
 % SAND: 37  
 % FINES: 34

% GRAVEL: 20  
 % SAND: 71  
 % FINES: 9

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-305  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1848+950 O/S 20M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 390  
 LAB NO: 1676  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

FIELD NO: 391  
 LAB NO: 1677  
 DEPTH: 2.25-2.7  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	97
2.0	--
1.25	93
0.840	--
0.630	88
0.420	--
0.315	82
0.160	76
0.150	--
0.080	70

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	93
0.150	--
0.080	89

M.C. (%) : 45

M.C. (%) : 61

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 30  
 % FINES: 70

% GRAVEL: 0  
 % SAND: 11  
 % FINES: 89

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-306  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+050 O/S 20M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 392  
 LAB NO: 1678  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 393  
 LAB NO: 1679  
 DEPTH: 2.6-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	93
0.420	--
0.315	89
0.160	83
0.150	--
0.080	71

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	96
2.0	--
1.25	93
0.840	--
0.630	91
0.420	--
0.315	88
0.160	86
0.150	--
0.080	83

M.C. (%): 77

M.C. (%): 93

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 29  
 % FINES: 71

% GRAVEL: 0  
 % SAND: 17  
 % FINES: 83

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-307  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+225 O/S 20M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 394  
 LAB NO: 1680  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

FIELD NO: 395  
 LAB NO: 1681  
 DEPTH: 2.5-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	80
0.420	--
0.315	60
0.160	54
0.150	--
0.080	50

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	92
0.420	--
0.315	66
0.160	42
0.150	--
0.080	32

M.C. (%): 58

M.C. (%): 97

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 50  
 % FINES: 50

% GRAVEL: 0  
 % SAND: 68  
 % FINES: 32

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-308  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+375 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.05

FIELD NO: 396  
 LAB NO: 1682  
 DEPTH: 1.0-1.5  
 TYPE: AUGER

FIELD NO: 397  
 LAB NO: 1683  
 DEPTH: 1.8-2.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	96
0.840	--
0.630	84
0.420	--
0.315	73
0.160	66
0.150	--
0.080	57

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	92
0.160	89
0.150	--
0.080	87

M.C. (%): 69

M.C. (%): 67

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 43  
 % FINES: 57

% GRAVEL: 0  
 % SAND: 13  
 % FINES: 87

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-309  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+475 O/S 2M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 398  
 LAB NO: 1701  
 DEPTH: 1.8-2.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	92
0.150	--
0.080	74

M.C. (%): 26

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 26  
 % FINES: 74

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-309A  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+575  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 399  
 LAB NO: 1702  
 DEPTH: 2.2-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	84
0.150	--
0.080	42

M.C. (%): 18

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 58  
 % FINES: 42

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-310  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+6560 O/S 2M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 400  
 LAB NO: 1703  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	81
10.0	74
5.0	57
2.5	44
2.0	--
1.25	34
0.840	--
0.630	26
0.420	--
0.315	17
0.160	10
0.150	--
0.080	7

M.C. (%): 10

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 43  
 % SAND: 49  
 % FINES: 7

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-311  
CLIENT: ENGINEERING-CAPITAL  
PROJECT NAME: SHAKWAK PROJECT  
PROJECT LOCATION: SEGMENT 15  
DRILL UNIT: CME 750  
HOLE LOCATION: 1849+725  
LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 401  
LAB NO: 1704  
DEPTH: 2.0-2.5  
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	93
0.420	--
0.315	89
0.160	84
0.150	--
0.080	78

M.C. (%): 65

LIMITS

LIQUID: --  
PLASTIC: --  
P.I.: N.P.

% GRAVEL: 0  
% SAND: 22  
% FINES: 78

CLASSIFICATION:  
SILT WITH SAND  
(ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-312  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+825 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 402  
 LAB NO: 1705  
 DEPTH: 0.8-1.2  
 TYPE: AUGER

FIELD NO: 403  
 LAB NO: 1706  
 DEPTH: 2.2-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	91
0.160	89
0.150	--
0.080	86

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	91
12.5	87
10.0	85
5.0	82
2.5	80
2.0	--
1.25	77
0.840	--
0.630	69
0.420	--
0.315	40
0.160	17
0.150	--
0.080	8

M.C. (%) : 51

M.C. (%) : 7

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 14  
 % FINES: 86

% GRAVEL: 18  
 % SAND: 74  
 % FINES: 8

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-313  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1849+950 O/S 5M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 404  
 LAB NO: 1707  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 405  
 LAB NO: 1708  
 DEPTH: 2.2-2.8  
 TYPE: AUGER

FIELD NO: 406  
 LAB NO: 1709  
 DEPTH: 3.5-4.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	88
12.5	75
10.0	69
5.0	55
2.5	45
2.0	--
1.25	36
0.840	--
0.630	27
0.420	--
0.315	14
0.160	6
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	91
12.5	84
10.0	77
5.0	62
2.5	51
2.0	--
1.25	42
0.840	--
0.630	32
0.420	--
0.315	17
0.160	9
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	81
12.5	76
10.0	73
5.0	66
2.5	61
2.0	--
1.25	54
0.840	--
0.630	47
0.420	--
0.315	34
0.160	27
0.150	--
0.080	24

M.C. (%): 3

M.C. (%): 5

M.C. (%): 18

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 45  
 % SAND: 52  
 % FINES: 3

% GRAVEL: 38  
 % SAND: 56  
 % FINES: 6

% GRAVEL: 34  
 % SAND: 43  
 % FINES: 24

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-314  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+125 O/S 5M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 407  
 LAB NO: 1710  
 DEPTH: 0.8-1.4  
 TYPE: AUGER

FIELD NO: 408  
 LAB NO: 1711  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	73
12.5	59
10.0	54
5.0	39
2.5	31
2.0	--
1.25	25
0.840	--
0.630	20
0.420	--
0.315	15
0.160	11
0.150	--
0.080	7

M.C. (%) : 10

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 61  
 % SAND: 32  
 % FINES: 7

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	89
5.0	64
2.5	41
2.0	--
1.25	29
0.840	--
0.630	23
0.420	--
0.315	17
0.160	9
0.150	--
0.080	5

M.C. (%) : 9

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 36  
 % SAND: 59  
 % FINES: 5

CLASSIFICATION:  
 WELL-GRADED SAND  
 WITH SILT &  
 GRAVEL (SW-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-315  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+235 O/S 15M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 3409  
 LAB NO: 1712  
 DEPTH: 1.0-1.4  
 TYPE: AUGER

FIELD NO: 410  
 LAB NO: 1713  
 DEPTH: 2.4-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	97
2.0	--
1.25	93
0.840	--
0.630	88
0.420	--
0.315	81
0.160	77
0.150	--
0.080	74

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	94
0.160	91
0.150	--
0.080	84

M.C. (%) : 84

M.C. (%) : 55

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 26  
 % FINES: 74

% GRAVEL: 0  
 % SAND: 16  
 % FINES: 84

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-316  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+325 O/S 10M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 411  
 LAB NO: 1714  
 DEPTH: 0.4-0.8  
 TYPE: AUGER

FIELD NO: 412  
 LAB NO: 1715  
 DEPTH: 2.2-2.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
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SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	95
0.160	91
0.150	--
0.080	86

100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	89
12.5	79
10.0	70
5.0	58
2.5	49
2.0	--
1.25	40
0.840	--
0.630	26
0.420	--
0.315	10
0.160	5
0.150	--
0.080	4

M.C. (%) : 23

M.C. (%) : 12

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 14  
 % FINES: 86

% GRAVEL: 42  
 % SAND: 54  
 % FINES: 4

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-317  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+460 O/S 10M RT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 413  
 LAB NO: 1716  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	96
0.420	--
0.315	91
0.160	88
0.150	--
0.080	84

M.C. (%): 16

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 16  
 % FINES: 84

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-318  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+525 O/S 5M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 414  
 LAB NO: 1717  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 415  
 LAB NO: 1718  
 DEPTH: 2.2-2.8  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	97
0.840	--
0.630	83
0.420	--
0.315	32
0.160	8
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	50
2.0	--
1.25	38
0.840	--
0.630	32
0.420	--
0.315	28
0.160	25
0.150	--
0.080	22

M.C. (%) : 19

M.C. (%) : 203

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 95  
 % FINES: 5

% GRAVEL: 0  
 % SAND: 78  
 % FINES: 22

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-319  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+625  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 416  
 LAB NO: 1719  
 DEPTH: 0.8-1.2  
 TYPE: AUGER

FIELD NO: 417  
 LAB NO: 1720  
 DEPTH: 1.8-2.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	94
0.160	89
0.150	--
0.080	73

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	98
2.5	92
2.0	--
1.25	83
0.840	--
0.630	64
0.420	--
0.315	20
0.160	8
0.150	--
0.080	6

M.C. (%): 47

M.C. (%): 19

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 27  
 % FINES: 73

% GRAVEL: 2  
 % SAND: 93  
 % FINES: 6

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-320  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+735 O/S 15M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 418  
 LAB NO: 1721  
 DEPTH: 2.0-2.5  
 TYPE: AUGER

FIELD NO: 419  
 LAB NO: 1722  
 DEPTH: 3.8-4.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	89
10.0	85
5.0	76
2.5	63
2.0	--
1.25	45
0.840	--
0.630	32
0.420	--
0.315	16
0.160	8
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	77
12.5	63
10.0	54
5.0	38
2.5	27
2.0	--
1.25	20
0.840	--
0.630	13
0.420	--
0.315	6
0.160	3
0.150	--
0.080	2

M.C. (%) : 14

M.C. (%) : 8

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 24  
 % SAND: 71  
 % FINES: 5

% GRAVEL: 62  
 % SAND: 35  
 % FINES: 2

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SAND  
 (GW)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 262-321  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+825 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 420  
 LAB NO: 1723  
 DEPTH: 0.5-1.0  
 TYPE: AUGER

FIELD NO: 421  
 LAB NO: 1724  
 DEPTH: 2.5-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	94
0.160	87
0.150	--
0.080	66

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	97
2.0	--
1.25	96
0.840	--
0.630	95
0.420	--
0.315	76
0.160	31
0.150	--
0.080	17

M.C. (%) : 55

M.C. (%) : 38

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 34  
 % FINES: 66

% GRAVEL: 0  
 % SAND: 83  
 % FINES: 17

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 263-322  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1850+975 O/S 15M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 422  
 LAB NO: 1725  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 423  
 LAB NO: 1726  
 DEPTH: 2.5-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	89
0.420	--
0.315	31
0.160	4
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	92
0.840	--
0.630	60
0.420	--
0.315	30
0.160	16
0.150	--
0.080	11

M.C. (%) : 11

M.C. (%) : 95

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 98  
 % FINES: 2

% GRAVEL: 0  
 % SAND: 89  
 % FINES: 11

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 263-323  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1851+150 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 424  
 LAB NO: 1727  
 DEPTH: 0.6-1.0  
 TYPE: AUGER

FIELD NO: 425  
 LAB NO: 1728  
 DEPTH: 2.0-2.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	89
5.0	80
2.5	74
2.0	--
1.25	66
0.840	--
0.630	55
0.420	--
0.315	22
0.160	7
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	93
12.5	79
10.0	68
5.0	50
2.5	37
2.0	--
1.25	28
0.840	--
0.630	20
0.420	--
0.315	8
0.160	4
0.150	--
0.080	3

M.C. (%): 8

M.C. (%): 10

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 20  
 % SAND: 76  
 % FINES: 4

% GRAVEL: 50  
 % SAND: 47  
 % FINES: 3

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 263-324  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1851+400 O/S 125M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 426  
 LAB NO: 1729  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	92
0.840	--
0.630	47
0.420	--
0.315	12
0.160	4
0.150	--
0.080	3

M.C. (%): 47

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 97  
 % FINES: 3

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 263-325  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1851+600 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 427  
 LAB NO: 1730  
 DEPTH: 0.8-1.2  
 TYPE: AUGER

FIELD NO: 428  
 LAB NO: 1731  
 DEPTH: 2.0-2.5  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	87
12.5	72
10.0	64
5.0	50
2.5	41
2.0	--
1.25	32
0.840	--
0.630	26
0.420	--
0.315	17
0.160	10
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	90
5.0	80
2.5	70
2.0	--
1.25	58
0.840	--
0.630	45
0.420	--
0.315	22
0.160	9
0.150	--
0.080	3

M.C. (%): 3

M.C. (%): 17

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 50  
 % SAND: 45  
 % FINES: 6

% GRAVEL: 20  
 % SAND: 77  
 % FINES: 3

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

PROJECT NUMBER: 202101-0311-193 HOLE NUMBER: 263-326  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: CME 750  
 HOLE LOCATION: 1851+675 O/S 10M LT  
 LOGGED BY: GC DATE COMPLETED: 93.10.06

FIELD NO: 429  
 LAB NO: 1732  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 430  
 LAB NO: 1733  
 DEPTH: 2.0-3.0  
 TYPE: AUGER

FIELD NO: 431  
 LAB NO: 1734  
 DEPTH: 3.6-4.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	86
0.160	72
0.150	--
0.080	56

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	90
12.5	68
10.0	61
5.0	46
2.5	37
2.0	--
1.25	30
0.840	--
0.630	21
0.420	--
0.315	7
0.160	2
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	87
12.5	75
10.0	68
5.0	56
2.5	47
2.0	--
1.25	39
0.840	--
0.630	29
0.420	--
0.315	11
0.160	5
0.150	--
0.080	3

M.C. (%): 48

M.C. (%): 4

M.C. (%): 10

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 44  
 % FINES: 56

% GRAVEL: 54  
 % SAND: 45  
 % FINES: 2

% GRAVEL: 44  
 % SAND: 53  
 % FINES: 3

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-40  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.20

FIELD NO: 122  
 LAB NO: 968  
 DEPTH: 0.7-1.0  
 TYPE: AUGER

FIELD NO: 123  
 LAB NO: 969  
 DEPTH: 1.7-2.0  
 TYPE: AUGER

FIELD NO: 124  
 LAB NO: 970  
 DEPTH: 2.7-3.0  
 TYPE: AUGER

FIELD NO: 125  
 LAB NO: 971  
 DEPTH: 4.6-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	84
12.5	78
10.0	75
5.0	68
2.5	65
2.0	--
1.25	62
0.840	--
0.630	56
0.420	--
0.315	44
0.160	32
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	94
2.5	91
2.0	--
1.25	89
0.840	--
0.630	71
0.420	--
0.315	22
0.160	5
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	94
12.5	82
10.0	74
5.0	58
2.5	45
2.0	--
1.25	36
0.840	--
0.630	26
0.420	--
0.315	10
0.160	4
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	76
20.0	75
12.5	65
10.0	58
5.0	43
2.5	33
2.0	--
1.25	26
0.840	--
0.630	18
0.420	--
0.315	8
0.160	3
0.150	--
0.080	2

M.C. (%): 20

M.C. (%): 5

M.C. (%): 4

M.C. (%): 8

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 32  
 % SAND: 46  
 % FINES: 22

% GRAVEL: 6  
 % SAND: 92  
 % FINES: 3

% GRAVEL: 42  
 % SAND: 56  
 % FINES: 2

% GRAVEL: 57  
 % SAND: 41  
 % FINES: 2

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-41  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.20

FIELD NO: 126  
 LAB NO: 972  
 DEPTH: 0.6-0.9  
 TYPE: AUGER

FIELD NO: 127  
 LAB NO: 973  
 DEPTH: 1.7-2.0  
 TYPE: AUGER

FIELD NO: 128  
 LAB NO: 974  
 DEPTH: 2.8-3.2  
 TYPE: AUGER

FIELD NO: 129  
 LAB NO: 975  
 DEPTH: 4.6-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	99
2.5	96
2.0	--
1.25	88
0.840	--
0.630	71
0.420	--
0.315	37
0.160	17
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	97
0.840	--
0.630	84
0.420	--
0.315	58
0.160	33
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	98
0.840	--
0.630	88
0.420	--
0.315	70
0.160	51
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	100
2.0	--
1.25	98
0.840	--
0.630	81
0.420	--
0.315	23
0.160	5
0.150	--
0.080	3

M.C. (%): 37

M.C. (%): 47

M.C. (%): 50

M.C. (%): 23

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 1  
 % SAND: 88  
 % FINES: 11

% GRAVEL: 0  
 % SAND: 78  
 % FINES: 22

% GRAVEL: 0  
 % SAND: 61  
 % FINES: 39

% GRAVEL: 0  
 % SAND: 96  
 % FINES: 3

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-42  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.20

FIELD NO: 130  
 LAB NO: 976  
 DEPTH: 0.7-1.0  
 TYPE: AUGER

FIELD NO: 131  
 LAB NO: 977  
 DEPTH: 1.6-1.9  
 TYPE: AUGER

FIELD NO: 132  
 LAB NO: 978  
 DEPTH: 2.8-3.2  
 TYPE: AUGER

FIELD NO: 133  
 LAB NO: 979  
 DEPTH: 4.0-4.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	87
0.420	--
0.315	37
0.160	9
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	98
2.0	--
1.25	93
0.840	--
0.630	76
0.420	--
0.315	28
0.160	7
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	94
0.840	--
0.630	66
0.420	--
0.315	23
0.160	7
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	96
0.840	--
0.630	53
0.420	--
0.315	9
0.160	3
0.150	--
0.080	3

M.C. (%): 18

M.C. (%): 22

M.C. (%): 38

M.C. (%): 91

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 95  
 % FINES: 5

% GRAVEL: 0  
 % SAND: 95  
 % FINES: 4

% GRAVEL: 0  
 % SAND: 95  
 % FINES: 5

% GRAVEL: 0  
 % SAND: 97  
 % FINES: 3

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-43  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.20

FIELD NO: 134  
 LAB NO: 980  
 DEPTH: 0.6-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 135  
 LAB NO: 981  
 DEPTH: 1.8-2.2  
 TYPE: AUGER

FIELD NO: 136  
 LAB NO: 982  
 DEPTH: 2.8-3.2  
 TYPE: AUGER

FIELD NO: 137  
 LAB NO: 983  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	97
0.160	94
0.150	--
0.080	90

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	81
10.0	73
5.0	53
2.5	40
2.0	--
1.25	31
0.840	--
0.630	22
0.420	--
0.315	13
0.160	8
0.150	--
0.080	6

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	94
12.5	82
10.0	74
5.0	54
2.5	36
2.0	--
1.25	22
0.840	--
0.630	15
0.420	--
0.315	10
0.160	7
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	90
12.5	74
10.0	67
5.0	47
2.5	36
2.0	--
1.25	29
0.840	--
0.630	22
0.420	--
0.315	16
0.160	11
0.150	--
0.080	8

M.C. (%): 78

M.C. (%): 8

M.C. (%): 9

M.C. (%): 8

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 10  
 % FINES: 90

% GRAVEL: 47  
 % SAND: 47  
 % FINES: 6

% GRAVEL: 46  
 % SAND: 49  
 % FINES: 5

% GRAVEL: 53  
 % SAND: 40  
 % FINES: 8

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 WELL-GRADED SAND  
 WITH SILT &  
 GRAVEL (SW-SM)

CLASSIFICATION:  
 WELL-GRADED SAND  
 WITH SILT &  
 GRAVEL (SW-SM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-44  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.20

FIELD NO: 138  
 LAB NO: 984  
 DEPTH: 0.7-1.0  
 TYPE: AUGER

FIELD NO: 139  
 LAB NO: 985  
 DEPTH: 1.9-2.2  
 TYPE: AUGER

FIELD NO: 140  
 LAB NO: 986  
 DEPTH: 2.8-3.2  
 TYPE: AUGER

FIELD NO: 141  
 LAB NO: 987  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	97
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	90
0.160	69
0.150	--
0.080	50

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	94
2.5	89
2.0	--
1.25	86
0.840	--
0.630	81
0.420	--
0.315	44
0.160	22
0.150	--
0.080	15

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	97
12.5	88
10.0	81
5.0	58
2.5	39
2.0	--
1.25	27
0.840	--
0.630	18
0.420	--
0.315	13
0.160	9
0.150	--
0.080	7

M.C. (%): 39

M.C. (%): 31

M.C. (%): 18

M.C. (%): 8

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 21  
 % FINES: 79

% GRAVEL: 0  
 % SAND: 50  
 % FINES: 50

% GRAVEL: 6  
 % SAND: 79  
 % FINES: 15

% GRAVEL: 42  
 % SAND: 51  
 % FINES: 7

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 WELL-GRADED SAND  
 WITH SILT &  
 GRAVEL (SW-SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-45  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.20

FIELD NO: 142  
 LAB NO: 988  
 DEPTH: 0.9-1.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 143  
 LAB NO: 989  
 DEPTH: 2.0-2.2  
 TYPE: AUGER

FIELD NO: 144  
 LAB NO: 990  
 DEPTH: 3.0-3.2  
 TYPE: AUGER

FIELD NO: 145  
 LAB NO: 991  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	96
0.160	94
0.150	--
0.080	89

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	100
5.0	94
2.5	87
2.0	--
1.25	81
0.840	--
0.630	71
0.420	--
0.315	49
0.160	28
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	88
10.0	80
5.0	65
2.5	49
2.0	--
1.25	39
0.840	--
0.630	31
0.420	--
0.315	22
0.160	16
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	89
10.0	86
5.0	71
2.5	59
2.0	--
1.25	50
0.840	--
0.630	41
0.420	--
0.315	31
0.160	22
0.150	--
0.080	17

M.C. (%): 98

M.C. (%): 15

M.C. (%): 13

M.C. (%): 13

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 11  
 % FINES: 89

% GRAVEL: 6  
 % SAND: 75  
 % FINES: 19

% GRAVEL: 35  
 % SAND: 52  
 % FINES: 13

% GRAVEL: 29  
 % SAND: 55  
 % FINES: 17

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-46  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.20

FIELD NO: 146  
 LAB NO: 992  
 DEPTH: 0.7-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 147  
 LAB NO: 993  
 DEPTH: 1.8-2.1  
 TYPE: AUGER

FIELD NO: 148  
 LAB NO: 994  
 DEPTH: 3.0-3.4  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 149  
 LAB NO: 995  
 DEPTH: 4.6-5.0  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	90
0.420	--
0.315	79
0.160	74
0.150	--
0.080	69

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	64
0.160	32
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	96
0.840	--
0.630	82
0.420	--
0.315	68
0.160	58
0.150	--
0.080	53

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	100
0.160	99
0.150	--
0.080	94

M.C. (%): 81

M.C. (%): 24

M.C. (%): 270

M.C. (%): 52

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 31  
 % FINES: 69

% GRAVEL: 0  
 % SAND: 80  
 % FINES: 20

% GRAVEL: 0  
 % SAND: 47  
 % FINES: 53

% GRAVEL: 0  
 % SAND: 6  
 % FINES: 94

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-47  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 150  
 LAB NO: 996  
 DEPTH: 0.6-0.8  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 151  
 LAB NO: 997  
 DEPTH: 1.8-2.2  
 TYPE: AUGER

FIELD NO: 152  
 LAB NO: 998  
 DEPTH: 3.0-3.2  
 TYPE: AUGER

FIELD NO: 153  
 LAB NO: 999  
 DEPTH: 4.6-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	97
2.5	95
2.0	--
1.25	90
0.840	--
0.630	70
0.420	--
0.315	33
0.160	19
0.150	--
0.080	15

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	84
12.5	71
10.0	65
5.0	52
2.5	43
2.0	--
1.25	36
0.840	--
0.630	29
0.420	--
0.315	15
0.160	6
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	77
20.0	73
12.5	62
10.0	59
5.0	49
2.5	41
2.0	--
1.25	34
0.840	--
0.630	24
0.420	--
0.315	10
0.160	5
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	76
12.5	62
10.0	56
5.0	44
2.5	37
2.0	--
1.25	33
0.840	--
0.630	25
0.420	--
0.315	13
0.160	8
0.150	--
0.080	6

M.C. (%): 49

M.C. (%): 13

M.C. (%): 13

M.C. (%): 13

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 3  
 % SAND: 82  
 % FINES: 15

% GRAVEL: 48  
 % SAND: 50  
 % FINES: 3

% GRAVEL: 51  
 % SAND: 46  
 % FINES: 3

% GRAVEL: 56  
 % SAND: 38  
 % FINES: 6

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-48  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 154  
 LAB NO: 1000  
 DEPTH: 0.3-0.5  
 TYPE: AUGER

FIELD NO: 155  
 LAB NO: 1001  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 156  
 LAB NO: 1002  
 DEPTH: 3.0-3.3  
 TYPE: AUGER

FIELD NO: 157  
 LAB NO: 1003  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	99
5.0	98
2.5	98
2.0	--
1.25	97
0.840	--
0.630	88
0.420	--
0.315	52
0.160	21
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	87
12.5	74
10.0	66
5.0	51
2.5	42
2.0	--
1.25	35
0.840	--
0.630	28
0.420	--
0.315	15
0.160	7
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	49
20.0	47
12.5	42
10.0	41
5.0	36
2.5	32
2.0	--
1.25	28
0.840	--
0.630	21
0.420	--
0.315	14
0.160	10
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	84
12.5	69
10.0	62
5.0	50
2.5	40
2.0	--
1.25	32
0.840	--
0.630	23
0.420	--
0.315	14
0.160	9
0.150	--
0.080	7

M.C. (%): 17

M.C. (%): 12

M.C. (%): 14

M.C. (%): 17

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 2  
 % SAND: 87  
 % FINES: 11

% GRAVEL: 49  
 % SAND: 46  
 % FINES: 5

% GRAVEL: 64  
 % SAND: 28  
 % FINES: 8

% GRAVEL: 50  
 % SAND: 42  
 % FINES: 7

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-49  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 158  
 LAB NO: 1004  
 DEPTH: 0.8-1.1  
 TYPE: AUGER

FIELD NO: 159  
 LAB NO: 1005  
 DEPTH: 2.0-2.2  
 TYPE: AUGER

FIELD NO: 160  
 LAB NO: 1006  
 DEPTH: 3.4-3.6  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 161  
 LAB NO: 1007  
 DEPTH: 4.6-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	87
12.5	70
10.0	64
5.0	49
2.5	38
2.0	--
1.25	30
0.840	--
0.630	20
0.420	--
0.315	8
0.160	4
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	83
12.5	72
10.0	66
5.0	53
2.5	41
2.0	--
1.25	29
0.840	--
0.630	15
0.420	--
0.315	4
0.160	2
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	97
2.5	95
2.0	--
1.25	92
0.840	--
0.630	89
0.420	--
0.315	86
0.160	83
0.150	--
0.080	82

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	79
12.5	76
10.0	72
5.0	66
2.5	59
2.0	--
1.25	54
0.840	--
0.630	50
0.420	--
0.315	45
0.160	38
0.150	--
0.080	28

M.C. (%): 3

M.C. (%): 9

M.C. (%): 45

M.C. (%): 16

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 51  
 % SAND: 46  
 % FINES: 2

% GRAVEL: 47  
 % SAND: 52  
 % FINES: 1

% GRAVEL: 3  
 % SAND: 15  
 % FINES: 82

% GRAVEL: 34  
 % SAND: 38  
 % FINES: 28

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH GRAVEL  
 (SP)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-50  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 162  
 LAB NO: 1008  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 163  
 LAB NO: 1009  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 164  
 LAB NO: 1010  
 DEPTH: 3.0-3.3  
 TYPE: AUGER

FIELD NO: 165  
 LAB NO: 1011  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	96
0.420	--
0.315	91
0.160	89
0.150	--
0.080	88

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	100
2.5	99
2.0	--
1.25	97
0.840	--
0.630	95
0.420	--
0.315	92
0.160	82
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	88
10.0	84
5.0	71
2.5	60
2.0	--
1.25	52
0.840	--
0.630	46
0.420	--
0.315	40
0.160	31
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	85
12.5	76
10.0	72
5.0	57
2.5	44
2.0	--
1.25	34
0.840	--
0.630	25
0.420	--
0.315	18
0.160	13
0.150	--
0.080	10

M.C. (%): 56

M.C. (%): 24

M.C. (%): 11

M.C. (%): 7

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 12  
 % FINES: 88

% GRAVEL: 0  
 % SAND: 40  
 % FINES: 59

% GRAVEL: 29  
 % SAND: 48  
 % FINES: 23

% GRAVEL: 43  
 % SAND: 47  
 % FINES: 10

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 WELL-GRADED SAND  
 WITH SILT &  
 GRAVEL (SW-SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-51  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 166  
 LAB NO: 1012  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 167  
 LAB NO: 1013  
 DEPTH: 2.0-2.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 168  
 LAB NO: 1014  
 DEPTH: 3.0-3.3  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	96
0.840	--
0.630	57
0.420	--
0.315	17
0.160	11
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	96
0.420	--
0.315	93
0.160	90
0.150	--
0.080	88

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	87
12.5	83
10.0	80
5.0	70
2.5	61
2.0	--
1.25	54
0.840	--
0.630	44
0.420	--
0.315	28
0.160	18
0.150	--
0.080	13

M.C. (%): 104

M.C. (%): 71

M.C. (%): 10

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 91  
 % FINES: 9

% GRAVEL: 0  
 % SAND: 12  
 % FINES: 88

% GRAVEL: 30  
 % SAND: 56  
 % FINES: 13

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-52  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 169  
 LAB NO: 1015  
 DEPTH: 0.6-0.9  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 170  
 LAB NO: 1016  
 DEPTH: 1.8-2.2  
 TYPE: AUGER

FIELD NO: 171  
 LAB NO: 1017  
 DEPTH: 3.2-3.6  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 172  
 LAB NO: 1018  
 DEPTH: 4.6-5.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	74
0.420	--
0.315	42
0.160	30
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	71
0.420	--
0.315	25
0.160	15
0.150	--
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	94
0.420	--
0.315	90
0.160	86
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	87
12.5	84
10.0	82
5.0	79
2.5	77
2.0	--
1.25	76
0.840	--
0.630	72
0.420	--
0.315	66
0.160	56
0.150	--
0.080	43

M.C. (%): 93

M.C. (%): 37

M.C. (%): 79

M.C. (%): 33

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 74  
 % FINES: 26

% GRAVEL: 0  
 % SAND: 86  
 % FINES: 14

% GRAVEL: 0  
 % SAND: 21  
 % FINES: 79

% GRAVEL: 21  
 % SAND: 36  
 % FINES: 43

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-53  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 173  
 LAB NO: 1019  
 DEPTH: 0.6-0.8  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 174  
 LAB NO: 1020  
 DEPTH: 1.9-2.2  
 TYPE: AUGER

FIELD NO: 175  
 LAB NO: 1021  
 DEPTH: 3.0-3.3  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	97
0.160	94
0.150	--
0.080	91

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	98
20.0	95
12.5	79
10.0	73
5.0	56
2.5	44
2.0	--
1.25	35
0.840	--
0.630	28
0.420	--
0.315	18
0.160	12
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	88
12.5	74
10.0	66
5.0	43
2.5	30
2.0	--
1.25	24
0.840	--
0.630	19
0.420	--
0.315	12
0.160	8
0.150	--
0.080	6

M.C. (%): 106

M.C. (%): 13

M.C. (%): 9

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: NP

% GRAVEL: 0  
 % SAND: 9  
 % FINES: 91

% GRAVEL: 44  
 % SAND: 46  
 % FINES: 9

% GRAVEL: 57  
 % SAND: 37  
 % FINES: 6

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-54  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 176  
 LAB NO: 1022  
 DEPTH: 0.9-1.1  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 177  
 LAB NO: 1023  
 DEPTH: 1.9-2.3  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 178  
 LAB NO: 1024  
 DEPTH: 2.8-3.2  
 TYPE: AUGER

FIELD NO: 179  
 LAB NO: 1025  
 DEPTH: 4.2-4.6  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	86
0.420	--
0.315	49
0.160	27
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	96
0.840	--
0.630	92
0.420	--
0.315	79
0.160	69
0.150	--
0.080	62

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	98
0.160	96
0.150	--
0.080	88

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	94
0.150	--
0.080	86

M.C. (%): 59

M.C. (%): 79

M.C. (%): 52

M.C. (%): 62

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 80  
 % FINES: 20

% GRAVEL: 0  
 % SAND: 38  
 % FINES: 62

% GRAVEL: 0  
 % SAND: 12  
 % FINES: 88

% GRAVEL: 0  
 % SAND: 14  
 % FINES: 86

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILT (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-55  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 180  
 LAB NO: 1026  
 DEPTH: 0.7-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 181  
 LAB NO: 1027  
 DEPTH: 1.8-2.1  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 182  
 LAB NO: 1028  
 DEPTH: 2.9-3.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 183  
 LAB NO: 1029  
 DEPTH: 4.6-4.9  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	98
5.0	97
2.5	96
2.0	--
1.25	94
0.840	--
0.630	89
0.420	--
0.315	83
0.160	76
0.150	--
0.080	59

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	99
20.0	99
12.5	98
10.0	98
5.0	95
2.5	92
2.0	--
1.25	88
0.840	--
0.630	81
0.420	--
0.315	72
0.160	67
0.150	--
0.080	62

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	96
0.160	94
0.150	--
0.080	79

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	93
0.160	89
0.150	--
0.080	73

M.C. (%): 25

M.C. (%): 70

M.C. (%): 42

M.C. (%): 42

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 3  
 % SAND: 38  
 % FINES: 59

% GRAVEL: 5  
 % SAND: 33  
 % FINES: 62

% GRAVEL: 0  
 % SAND: 21  
 % FINES: 79

% GRAVEL: 0  
 % SAND: 27  
 % FINES: 73

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-56  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 184  
 LAB NO: 1030  
 DEPTH: 0.8-1.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 185  
 LAB NO: 1031  
 DEPTH: 2.0-2.2  
 TYPE: AUGER

FIELD NO: 186  
 LAB NO: 1032  
 DEPTH: 2.9-3.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	94
0.420	--
0.315	86
0.160	82
0.150	--
0.080	78

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	97
5.0	80
2.5	62
2.0	--
1.25	48
0.840	--
0.630	40
0.420	--
0.315	27
0.160	15
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	98
0.160	94
0.150	--
0.080	79

M.C. (%): 119

M.C. (%): 12

M.C. (%): 29

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 22  
 % FINES: 78

% GRAVEL: 20  
 % SAND: 69  
 % FINES: 11

% GRAVEL: 0  
 % SAND: 21  
 % FINES: 79

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-57  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 187  
 LAB NO: 1033  
 DEPTH: 0.6-0.9  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 188  
 LAB NO: 1034  
 DEPTH: 1.8-2.1  
 TYPE: AUGER

FIELD NO: 189  
 LAB NO: 1035  
 DEPTH: 2.7-2.9  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	91
2.0	--
1.25	80
0.840	--
0.630	68
0.420	--
0.315	55
0.160	47
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	97
12.5	91
10.0	87
5.0	74
2.5	62
2.0	--
1.25	47
0.840	--
0.630	32
0.420	--
0.315	21
0.160	14
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	89
12.5	77
10.0	73
5.0	58
2.5	47
2.0	--
1.25	40
0.840	--
0.630	34
0.420	--
0.315	27
0.160	21
0.150	--
0.080	16

M.C. (%): 173

M.C. (%): 11

M.C. (%): 12

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 58  
 % FINES: 42

% GRAVEL: 26  
 % SAND: 65  
 % FINES: 9

% GRAVEL: 42  
 % SAND: 42  
 % FINES: 16

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 WELL-GRADED SAND  
 WITH SILT &  
 GRAVEL (SW-SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0312-194 HOLE NUMBER: 304-58  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 190  
 LAB NO: 1036  
 DEPTH: 0.6-0.9  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 191  
 LAB NO: 1037  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 192  
 LAB NO: 1038  
 DEPTH: 3.0-3.2  
 TYPE: AUGER

FIELD NO: 193  
 LAB NO: 1039  
 DEPTH: 4.2-4.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	97
0.840	--
0.630	86
0.420	--
0.315	54
0.160	34
0.150	--
0.080	25

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	98
0.840	--
0.630	91
0.420	--
0.315	57
0.160	27
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	77
12.5	69
10.0	64
5.0	59
2.5	55
2.0	--
1.25	52
0.840	--
0.630	48
0.420	--
0.315	41
0.160	35
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	73
12.5	57
10.0	53
5.0	44
2.5	40
2.0	--
1.25	37
0.840	--
0.630	32
0.420	--
0.315	24
0.160	19
0.150	--
0.080	16

M.C. (%): 31

M.C. (%): 34

M.C. (%): 36

M.C. (%): 19

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 75  
 % FINES: 25

% GRAVEL: 0  
 % SAND: 81  
 % FINES: 19

% GRAVEL: 41  
 % SAND: 28  
 % FINES: 31

% GRAVEL: 56  
 % SAND: 28  
 % FINES: 16

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 304-59  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 194	FIELD NO: 195	FIELD NO: 196	FIELD NO: 197
LAB NO: 1040	LAB NO: 1041	LAB NO: 1042	LAB NO: 1043
DEPTH: 0.8-1.0	DEPTH: 1.8-2.1	DEPTH: 2.9-3.2	DEPTH: 4.2-4.6
TYPE: AUGER	TYPE: AUGER	TYPE: AUGER	TYPE: AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	--	100.0	--	100.0	--	100.0	--
80.0	--	80.0	--	80.0	--	80.0	--
50.0	100	50.0	--	50.0	100	50.0	100
31.5	--	31.5	--	31.5	--	31.5	--
25.0	74	25.0	100	25.0	98	25.0	89
20.0	68	20.0	89	20.0	90	20.0	77
12.5	68	12.5	72	12.5	76	12.5	66
10.0	66	10.0	66	10.0	70	10.0	60
5.0	64	5.0	54	5.0	54	5.0	49
2.5	62	2.5	42	2.5	45	2.5	40
2.0	--	2.0	--	2.0	--	2.0	--
1.25	61	1.25	32	1.25	35	1.25	31
0.840	--	0.840	--	0.840	--	0.840	--
0.630	58	0.630	19	0.630	23	0.630	23
0.420	--	0.420	--	0.420	--	0.420	--
0.315	53	0.315	10	0.315	12	0.315	16
0.160	49	0.160	7	0.160	9	0.160	13
0.150	--	0.150	--	0.150	--	0.150	--
0.080	42	0.080	6	0.080	7	0.080	10

M.C. (%): 24      M.C. (%): 4      M.C. (%): 4      M.C. (%): 6

LIMITS		LIMITS		LIMITS		LIMITS	
LIQUID:	--	LIQUID:	--	LIQUID:	--	LIQUID:	--
PLASTIC:	--	PLASTIC:	--	PLASTIC:	--	PLASTIC:	--
P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.

% GRAVEL:	36	% GRAVEL:	46	% GRAVEL:	46	% GRAVEL:	51
% SAND:	22	% SAND:	48	% SAND:	47	% SAND:	38
% FINES:	42	% FINES:	6	% FINES:	7	% FINES:	10

CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)	CLASSIFICATION:	POORLY GRADED SAND WITH SILT & GRAVEL (SP-SM)	CLASSIFICATION:	POORLY GRADED SAND WITH SILT & GRAVEL (SP-SM)	CLASSIFICATION:	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)
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PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 304-60  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 198  
 LAB NO: 1044  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 199  
 LAB NO: 1045  
 DEPTH: 1.9-2.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	95
0.840	--
0.630	85
0.420	--
0.315	77
0.160	74
0.150	--
0.080	72

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	96
5.0	82
2.5	67
2.0	--
1.25	50
0.840	--
0.630	38
0.420	--
0.315	23
0.160	11
0.150	--
0.080	7

M.C. (%): 91

M.C. (%): 13

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 28  
 % FINES: 72

% GRAVEL: 18  
 % SAND: 75  
 % FINES: 7

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 304-61  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 200  
 LAB NO: 1046  
 DEPTH: 0.9-1.1  
 TYPE: AUGER

FIELD NO: 201  
 LAB NO: 1047  
 DEPTH: 1.9-2.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 202  
 LAB NO: 1048  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 203  
 LAB NO: 1049  
 DEPTH: 4.8-5.0  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	96
0.160	92
0.150	--
0.080	76

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	91
0.150	--
0.080	84

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	96
0.160	68
0.150	--
0.080	37

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	97
2.0	--
1.25	92
0.840	--
0.630	87
0.420	--
0.315	78
0.160	63
0.150	--
0.080	48

M.C. (%): 37

M.C. (%): 89

M.C. (%): 28

M.C. (%): 53

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 24  
 % FINES: 76

% GRAVEL: 0  
 % SAND: 16  
 % FINES: 84

% GRAVEL: 0  
 % SAND: 63  
 % FINES: 37

% GRAVEL: 0  
 % SAND: 52  
 % FINES: 48

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 304-62  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 204  
 LAB NO: 1050  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 205  
 LAB NO: 1051  
 DEPTH: 1.8-2.1  
 TYPE: AUGER

FIELD NO: 206  
 LAB NO: 1052  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 207  
 LAB NO: 1053  
 DEPTH: 4.6-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	98
0.840	--
0.630	92
0.420	--
0.315	81
0.160	69
0.150	--
0.080	53

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	96
0.160	75
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	95
0.160	71
0.150	--
0.080	38

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	91
5.0	79
2.5	71
2.0	--
1.25	63
0.840	--
0.630	56
0.420	--
0.315	48
0.160	41
0.150	--
0.080	35

M.C. (%): 53

M.C. (%): 25

M.C. (%): 27

M.C. (%): 16

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 47  
 % FINES: 53

% GRAVEL: 0  
 % SAND: 53  
 % FINES: 47

% GRAVEL: 0  
 % SAND: 62  
 % FINES: 38

% GRAVEL: 21  
 % SAND: 44  
 % FINES: 35

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 304-63  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 208  
 LAB NO: 1054  
 DEPTH: 0.9-1.2  
 TYPE: AUGER

FIELD NO: 209  
 LAB NO: 1055  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 210  
 LAB NO: 1056  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 211  
 LAB NO: 1057  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	97
0.420	--
0.315	92
0.160	84
0.150	--
0.080	63

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	94
0.150	--
0.080	92

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	97
0.160	91
0.150	--
0.080	80

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	99
2.5	93
2.0	--
1.25	91
0.840	--
0.630	88
0.420	--
0.315	81
0.160	63
0.150	--
0.080	38

M.C. (%): 47

M.C. (%): 60

M.C. (%): 30

M.C. (%): 19

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 37  
 % FINES: 63

% GRAVEL: 0  
 % SAND: 8  
 % FINES: 92

% GRAVEL: 0  
 % SAND: 20  
 % FINES: 80

% GRAVEL: 1  
 % SAND: 60  
 % FINES: 38

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 304-64  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 212  
 LAB NO: 1058  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 213  
 LAB NO: 1059  
 DEPTH: 1.9-2.1  
 TYPE: AUGER

FIELD NO: 214  
 LAB NO: 1060  
 DEPTH: 3.0-3.2  
 TYPE: AUGER

FIELD NO: 215  
 LAB NO: 1061  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	95
0.420	--
0.315	89
0.160	80
0.150	--
0.080	67

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	98
0.160	90
0.150	--
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	81
12.5	76
10.0	75
5.0	71
2.5	69
2.0	--
1.25	66
0.840	--
0.630	63
0.420	--
0.315	55
0.160	39
0.150	--
0.080	20

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	85
12.5	76
10.0	72
5.0	62
2.5	55
2.0	--
1.25	50
0.840	--
0.630	43
0.420	--
0.315	35
0.160	24
0.150	--
0.080	14

M.C. (%): 72

M.C. (%): 20

M.C. (%): 8

M.C. (%): 7

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 33  
 % FINES: 67

% GRAVEL: 0  
 % SAND: 35  
 % FINES: 65

% GRAVEL: 29  
 % SAND: 51  
 % FINES: 20

% GRAVEL: 38  
 % SAND: 48  
 % FINES: 14

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-65  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 216  
 LAB NO: 1062  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 217  
 LAB NO: 1063  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 218  
 LAB NO: 1064  
 DEPTH: 2.6-2.9  
 TYPE: AUGER

FIELD NO: 219  
 LAB NO: 1065  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	92
2.0	--
1.25	84
0.840	--
0.630	74
0.420	--
0.315	62
0.160	54
0.150	--
0.080	45

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	67
12.5	57
10.0	53
5.0	45
2.5	40
2.0	--
1.25	34
0.840	--
0.630	27
0.420	--
0.315	20
0.160	16
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	72
12.5	61
10.0	54
5.0	42
2.5	34
2.0	--
1.25	27
0.840	--
0.630	20
0.420	--
0.315	13
0.160	9
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	98
2.5	96
2.0	--
1.25	94
0.840	--
0.630	92
0.420	--
0.315	88
0.160	82
0.150	--
0.080	74

M.C. (%): 75

M.C. (%): 14

M.C. (%): 7

M.C. (%): 35

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 55  
 % FINES: 45

% GRAVEL: 55  
 % SAND: 32  
 % FINES: 13

% GRAVEL: 58  
 % SAND: 35  
 % FINES: 7

% GRAVEL: 2  
 % SAND: 24  
 % FINES: 74

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-66  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 220  
 LAB NO: 1066  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 221  
 LAB NO: 1067  
 DEPTH: 1.8-2.1  
 TYPE: AUGER

FIELD NO: 222  
 LAB NO: 1068  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 223  
 LAB NO: 1069  
 DEPTH: 4.4-4.7  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	86
0.420	--
0.315	46
0.160	29
0.150	--
0.080	24

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	80
12.5	76
10.0	74
5.0	70
2.5	67
2.0	--
1.25	65
0.840	--
0.630	61
0.420	--
0.315	56
0.160	46
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	75
12.5	62
10.0	57
5.0	48
2.5	41
2.0	--
1.25	36
0.840	--
0.630	32
0.420	--
0.315	26
0.160	21
0.150	--
0.080	15

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	85
31.5	--
25.0	60
20.0	56
12.5	51
10.0	47
5.0	37
2.5	30
2.0	--
1.25	24
0.840	--
0.630	18
0.420	--
0.315	13
0.160	9
0.150	--
0.080	7

M.C. (%): 45

M.C. (%): 14

M.C. (%): 8

M.C. (%): 5

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 76  
 % FINES: 24

% GRAVEL: 30  
 % SAND: 35  
 % FINES: 34

% GRAVEL: 52  
 % SAND: 32  
 % FINES: 15

% GRAVEL: 63  
 % SAND: 30  
 % FINES: 7

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-67  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.21

FIELD NO: 224  
 LAB NO: 1070  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 225  
 LAB NO: 1071  
 DEPTH: 1.9-2.1  
 TYPE: AUGER

FIELD NO: 226  
 LAB NO: 1072  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 227  
 LAB NO: 1073  
 DEPTH: 4.4-4.8  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
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SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	96
0.420	--
0.315	89
0.160	85
0.150	--
0.080	80

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	97
0.160	92
0.150	--
0.080	83

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	98
5.0	94
2.5	91
2.0	--
1.25	88
0.840	--
0.630	86
0.420	--
0.315	81
0.160	69
0.150	--
0.080	52

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	98
2.0	--
1.25	97
0.840	--
0.630	96
0.420	--
0.315	93
0.160	82
0.150	--
0.080	55

M.C. (%): 33

M.C. (%): 38

M.C. (%): 25

M.C. (%): 23

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 20  
 % FINES: 80

% GRAVEL: 0  
 % SAND: 17  
 % FINES: 83

% GRAVEL: 6  
 % SAND: 41  
 % FINES: 52

% GRAVEL: 0  
 % SAND: 45  
 % FINES: 55

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-68  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 228  
 LAB NO: 1074  
 DEPTH: 0.6-0.8  
 TYPE: AUGER

FIELD NO: 229  
 LAB NO: 1075  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 230  
 LAB NO: 1076  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 231  
 LAB NO: 1077  
 DEPTH: 4.4-4.6  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	89
0.420	--
0.315	52
0.160	36
0.150	--
0.080	32

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	95
0.160	73
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	90
2.5	86
2.0	--
1.25	82
0.840	--
0.630	80
0.420	--
0.315	74
0.160	53
0.150	--
0.080	30

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	90
0.150	--
0.080	64

M.C. (%): 57

M.C. (%): 25

M.C. (%): 19

M.C. (%): 37

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 68  
 % FINES: 32

% GRAVEL: 0  
 % SAND: 58  
 % FINES: 42

% GRAVEL: 10  
 % SAND: 61  
 % FINES: 30

% GRAVEL: 0  
 % SAND: 36  
 % FINES: 64

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-69  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 232  
 LAB NO: 1078  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 233  
 LAB NO: 1079  
 DEPTH: 1.8-2.1  
 TYPE: AUGER

FIELD NO: 234  
 LAB NO: 1080  
 DEPTH: 2.7-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	80
12.5	72
10.0	68
5.0	58
2.5	52
2.0	--
1.25	47
0.840	--
0.630	40
0.420	--
0.315	33
0.160	29
0.150	--
0.080	26

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	74
12.5	65
10.0	60
5.0	46
2.5	36
2.0	--
1.25	27
0.840	--
0.630	17
0.420	--
0.315	10
0.160	7
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	69
12.5	59
10.0	52
5.0	39
2.5	31
2.0	--
1.25	23
0.840	--
0.630	15
0.420	--
0.315	8
0.160	5
0.150	--
0.080	4

M.C. (%): 21

M.C. (%): 4

M.C. (%): 3

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 42  
 % SAND: 32  
 % FINES: 26

% GRAVEL: 54  
 % SAND: 41  
 % FINES: 5

% GRAVEL: 61  
 % SAND: 35  
 % FINES: 4

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SAND  
 (GW)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-70  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 235  
 LAB NO: 1081  
 DEPTH: 0.8-1.1  
 TYPE: AUGER

FIELD NO: 236  
 LAB NO: 1082  
 DEPTH: 1.9-2.1  
 TYPE: AUGER

FIELD NO: 237  
 LAB NO: 1083  
 DEPTH: 2.9-3.1  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 238  
 LAB NO: 1084  
 DEPTH: 4.2-4.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	92
0.160	73
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	97
0.160	87
0.150	--
0.080	61

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	96
0.160	90
0.150	--
0.080	80

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	98
2.5	96
2.0	--
1.25	93
0.840	--
0.630	87
0.420	--
0.315	70
0.160	48
0.150	--
0.080	35

M.C. (%): 43

M.C. (%): 42

M.C. (%): 61

M.C. (%): 43

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 53  
 % FINES: 47

% GRAVEL: 0  
 % SAND: 39  
 % FINES: 61

% GRAVEL: 0  
 % SAND: 20  
 % FINES: 80

% GRAVEL: 2  
 % SAND: 62  
 % FINES: 35

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-71  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 239  
 LAB NO: 1085  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 240  
 LAB NO: 1086  
 DEPTH: 1.9-2.1  
 TYPE: AUGER

FIELD NO: 241  
 LAB NO: 1087  
 DEPTH: 3.0-3.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	82
0.160	43
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	95
0.420	--
0.315	81
0.160	52
0.150	--
0.080	29

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	75
12.5	66
10.0	61
5.0	51
2.5	45
2.0	--
1.25	40
0.840	--
0.630	35
0.420	--
0.315	22
0.160	13
0.150	--
0.080	7

M.C. (%): 30

M.C. (%): 36

M.C. (%): 14

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 78  
 % FINES: 22

% GRAVEL: 0  
 % SAND: 71  
 % FINES: 29

% GRAVEL: 49  
 % SAND: 44  
 % FINES: 7

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-72  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 242  
 LAB NO: 1088  
 DEPTH: 0.8-1.1  
 TYPE: AUGER

FIELD NO: 243  
 LAB NO: 1089  
 DEPTH: 1.8-2.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 244  
 LAB NO: 1090  
 DEPTH: 3.0-3.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	93
0.420	--
0.315	83
0.160	72
0.150	--
0.080	50

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	96
0.160	90
0.150	--
0.080	78

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	96
0.420	--
0.315	86
0.160	75
0.150	--
0.080	61

M.C. (%): 78

M.C. (%): 56

M.C. (%): 46

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 50  
 % FINES: 50

% GRAVEL: 0  
 % SAND: 22  
 % FINES: 78

% GRAVEL: 0  
 % SAND: 39  
 % FINES: 61

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-73  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 245  
 LAB NO: 1091  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 246.00  
 LAB NO: 1092  
 DEPTH: 2.0-2.2  
 TYPE: AUGER

FIELD NO: 247.00  
 LAB NO: 1093  
 DEPTH: 2.8-3.0  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	99
0.420	--
0.315	96
0.160	89
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	83
12.5	71
10.0	68
5.0	58
2.5	52
2.0	--
1.25	45
0.840	--
0.630	38
0.420	--
0.315	23
0.160	10
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	99
2.0	--
1.25	98
0.840	--
0.630	94
0.420	--
0.315	81
0.160	64
0.150	--
0.080	52

M.C. (%): 45

M.C. (%): 13.00

M.C. (%): 44.00

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 48  
 % FINES: 52

% GRAVEL: 42.00  
 % SAND: 53.00  
 % FINES: 5.00

% GRAVEL: 0.00  
 % SAND: 48.00  
 % FINES: 52.00

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

CLASSIFICATION:  
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-74  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 248  
 LAB NO: 1094  
 DEPTH: 0.8-1.0  
 TYPE: AUGER

FIELD NO: 249  
 LAB NO: 1095  
 DEPTH: 1.8-2.0  
 TYPE: AUGER

FIELD NO: 250  
 LAB NO: 1096  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 251  
 LAB NO: 1097  
 DEPTH: 4.4-4.7  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	98
10.0	98
5.0	98
2.5	98
2.0	--
1.25	97
0.840	--
0.630	85
0.420	--
0.315	40
0.160	16
0.150	--
0.080	8

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	73
20.0	64
12.5	55
10.0	52
5.0	45
2.5	42
2.0	--
1.25	40
0.840	--
0.630	37
0.420	--
0.315	25
0.160	15
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	72
12.5	58
10.0	52
5.0	40
2.5	34
2.0	--
1.25	30
0.840	--
0.630	26
0.420	--
0.315	18
0.160	10
0.150	--
0.080	7

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	76
12.5	63
10.0	57
5.0	42
2.5	31
2.0	--
1.25	23
0.840	--
0.630	16
0.420	--
0.315	9
0.160	5
0.150	--
0.080	3

M.C. (%): 12

M.C. (%): 10

M.C. (%): 12

M.C. (%): 10

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 2  
 % SAND: 90  
 % FINES: 8

% GRAVEL: 55  
 % SAND: 36  
 % FINES: 9

% GRAVEL: 60  
 % SAND: 33  
 % FINES: 7

% GRAVEL: 58  
 % SAND: 39  
 % FINES: 3

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT  
 (SP-SM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SILT  
 & SAND (GP-GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SAND  
 (GW)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 305-75  
 CLIENT: SHAKWAK PROJECT  
 PROJECT NAME: ALASKA HIGHWAY RE-CONSTRUCTION  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-003  
 HOLE LOCATION: SEE PLAN  
 LOGGED BY: DA DATE COMPLETED: 94.07.22

FIELD NO: 252  
 LAB NO: 1098  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 253  
 LAB NO: 1099  
 DEPTH: 1.8-2.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 254  
 LAB NO: 1100  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	85
12.5	83
10.0	83
5.0	82
2.5	81
2.0	--
1.25	79
0.840	--
0.630	72
0.420	--
0.315	61
0.160	52
0.150	--
0.080	47

M.C. (%): 46

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 18  
 % SAND: 35  
 % FINES: 47

CLASSIFICATION:  
 SILTY SAND WITH  
 GRAVEL (SM)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	100
2.0	--
1.25	99
0.840	--
0.630	98
0.420	--
0.315	94
0.160	90
0.150	--
0.080	81

M.C. (%): 62

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 19  
 % FINES: 81

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

SIEVE SIZE	PERCENT PASSING
------------	-----------------

100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	93
12.5	81
10.0	75
5.0	63
2.5	53
2.0	--
1.25	47
0.840	--
0.630	39
0.420	--
0.315	23
0.160	12
0.150	--
0.080	9

M.C. (%): 17

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 37  
 % SAND: 53  
 % FINES: 9

CLASSIFICATION:  
 POORLY GRADED  
 SAND WITH SILT &  
 GRAVEL (SP-SM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 573-33  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: 1852+124 O/S 1M LT  
 LOGGED BY: LW DATE COMPLETED: 92.11.03

FIELD NO: 92	FIELD NO: 93	FIELD NO: 94	FIELD NO: 95
LAB NO: 4536	LAB NO: 4537	LAB NO: 4538	LAB NO: 4539
DEPTH: 0.8-1.0	DEPTH: 2.0-2.2	DEPTH: 4.4-4.6	DEPTH: 7.6-7.8
TYPE: AUGER	TYPE: AUGER	TYPE: AUGER	TYPE: AUGER

ORGANIC

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	--	100.0	--	100.0	--	100.0	--
80.0	--	80.0	--	80.0	--	80.0	--
50.0	--	50.0	--	50.0	100	50.0	100
31.5	--	31.5	--	31.5	--	31.5	--
25.0	--	25.0	100	25.0	86	25.0	94
20.0	--	20.0	93	20.0	71	20.0	75
12.5	--	12.5	91	12.5	60	12.5	56
10.0	--	10.0	85	10.0	52	10.0	46
5.0	100	5.0	73	5.0	39	5.0	33
2.5	--	2.5	--	2.5	--	2.5	--
2.0	100	2.0	58	2.0	29	2.0	25
1.25	--	1.25	--	1.25	--	1.25	--
0.840	99	0.840	40	0.840	21	0.840	19
0.630	--	0.630	--	0.630	--	0.630	--
0.420	97	0.420	18	0.420	13	0.420	13
0.315	--	0.315	--	0.315	--	0.315	--
0.160	--	0.160	--	0.160	--	0.160	--
0.150	87	0.150	5	0.150	5	0.150	5
0.080	76	0.080	3	0.080	3	0.080	4

M.C. (%): 46      M.C. (%): 7      M.C. (%): 11      M.C. (%): 9

LIMITS		LIMITS		LIMITS		LIMITS	
LIQUID:	--	LIQUID:	--	LIQUID:	--	LIQUID:	--
PLASTIC:	--	PLASTIC:	--	PLASTIC:	--	PLASTIC:	--
P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.	P.I.:	N.P.

% GRAVEL:	0	% GRAVEL:	27	% GRAVEL:	61	% GRAVEL:	67
% SAND:	24	% SAND:	70	% SAND:	36	% SAND:	29
% FINES:	76	% FINES:	3	% FINES:	3	% FINES:	4

CLASSIFICATION:	CLASSIFICATION:	CLASSIFICATION:	CLASSIFICATION:
SILT WITH SAND (ML)	POORLY GRADED SAND WITH GRAVEL (SP)	WELL-GRADED GRAVEL WITH SAND (GW)	POORLY GRADED GRAVEL WITH SAND (GP)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 573-33  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: 1852+124 O/S 1M LT  
 LOGGED BY: LW DATE COMPLETED: 92.11.03

FIELD NO: 96  
 LAB NO: 4540  
 DEPTH: 12.0-12.2  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	73
20.0	63
12.5	56
10.0	52
5.0	41
2.5	--
2.0	29
1.25	--
0.840	19
0.630	--
0.420	12
0.315	--
0.160	--
0.150	4
0.080	2

M.C. (%): 8.2

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 59  
 % SAND: 39  
 % FINES: 2

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 573-34  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: 1852+083  
 LOGGED BY: LW DATE COMPLETED: 82.11.03

FIELD NO: 97  
 LAB NO: 4541  
 DEPTH: 0.8-1.0  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 98  
 LAB NO: 4542  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 99  
 LAB NO: 4543A  
 DEPTH: 4.4-4.6  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	--
2.0	100
1.25	--
0.840	99
0.630	--
0.420	95
0.315	--
0.160	--
0.150	85
0.080	65

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	97
5.0	93
2.5	--
2.0	82
1.25	--
0.840	56
0.630	--
0.420	31
0.315	--
0.160	--
0.150	5
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	74
12.5	68
10.0	59
5.0	45
2.5	--
2.0	33
1.25	--
0.840	24
0.630	--
0.420	13
0.315	--
0.160	--
0.150	5
0.080	3

M.C. (%): 46

M.C. (%): 18

M.C. (%): 7

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS

LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 35  
 % FINES: 65

% GRAVEL: 7  
 % SAND: 90  
 % FINES: 3

% GRAVEL: 55  
 % SAND: 42  
 % FINES: 3

CLASSIFICATION:  
 SANDY SILT (ML)

CLASSIFICATION:  
 POORLY GRADED  
 SAND (SP)

CLASSIFICATION:  
 POORLY GRADED  
 GRAVEL WITH SAND  
 (GP)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 573-35  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: 1851+984 O/S 5M LT  
 LOGGED BY: LW DATE COMPLETED: 82.11.03

FIELD NO: 100  
 LAB NO: 4543B  
 DEPTH: 1.0-1.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 101  
 LAB NO: 4544  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 102  
 LAB NO: 4545  
 DEPTH: 4.2-4.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	--
2.0	100
1.25	--
0.840	98
0.630	--
0.420	86
0.315	--
0.160	--
0.150	55
0.080	40

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	83
10.0	73
5.0	46
2.5	--
2.0	29
1.25	--
0.840	20
0.630	--
0.420	15
0.315	--
0.160	--
0.150	6
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	97
12.5	87
10.0	74
5.0	51
2.5	--
2.0	32
1.25	--
0.840	21
0.630	--
0.420	15
0.315	--
0.160	--
0.150	7
0.080	5

M.C. (%): 63

M.C. (%): 9

M.C. (%): 10

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 60  
 % FINES: 40

% GRAVEL: 54  
 % SAND: 42  
 % FINES: 5

% GRAVEL: 49  
 % SAND: 46  
 % FINES: 5

CLASSIFICATION:  
 SILTY SAND (SM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SILT  
 & SAND (GW-GM)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 573-36  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: 1851+886  
 LOGGED BY: LW DATE COMPLETED: 82.11.03

FIELD NO: 103  
 LAB NO: 4546  
 DEPTH: 1.0-1.2  
 TYPE: AUGER  
 ORGANIC

FIELD NO: 104  
 LAB NO: 4547  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

FIELD NO: 105  
 LAB NO: 4548  
 DEPTH: 4.2-4.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	--
2.0	100
1.25	--
0.840	99
0.630	--
0.420	97
0.315	--
0.160	--
0.150	90
0.080	77

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	82
12.5	67
10.0	58
5.0	48
2.5	--
2.0	40
1.25	--
0.840	34
0.630	--
0.420	26
0.315	--
0.160	--
0.150	17
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	87
12.5	74
10.0	66
5.0	47
2.5	--
2.0	30
1.25	--
0.840	17
0.630	--
0.420	9
0.315	--
0.160	--
0.150	3
0.080	2

M.C. (%): 42

M.C. (%): 10

M.C. (%): 9

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 23  
 % FINES: 77

% GRAVEL: 52  
 % SAND: 34  
 % FINES: 14

% GRAVEL: 53  
 % SAND: 45  
 % FINES: 2

CLASSIFICATION:  
 SILT WITH SAND  
 (ML)

CLASSIFICATION:  
 SILTY GRAVEL  
 WITH SAND (GM)

CLASSIFICATION:  
 WELL-GRADED  
 GRAVEL WITH SAND  
 (GW)

PROJECT NUMBER: 092-202101-0311-194 HOLE NUMBER: 573-37  
 CLIENT: ENGINEERING-CAPITAL  
 PROJECT NAME: SHAKWAK PROJECT  
 PROJECT LOCATION: SEGMENT 15  
 DRILL UNIT: 36-002  
 HOLE LOCATION: 1851+786  
 LOGGED BY: LW DATE COMPLETED: 82.11.03

FIELD NO: 106  
 LAB NO: 4549  
 DEPTH: 1.0-1.2  
 TYPE: AUGER  
 ORGANIC

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	100
2.5	--
2.0	100
1.25	--
0.840	100
0.630	--
0.420	96
0.315	--
0.160	--
0.150	83
0.080	70

M.C. (%): 44

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 0  
 % SAND: 30  
 % FINES: 70

CLASSIFICATION: SANDY SILT (ML)

FIELD NO: 107  
 LAB NO: 4550  
 DEPTH: 2.8-3.0  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	82
12.5	75
10.0	69
5.0	59
2.5	--
2.0	53
1.25	--
0.840	47
0.630	--
0.420	32
0.315	--
0.160	--
0.150	8
0.080	5

M.C. (%): 13

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 41  
 % SAND: 54  
 % FINES: 5

CLASSIFICATION: POORLY GRADED SAND WITH SILT & GRAVEL (SP-SM)

FIELD NO: 108  
 LAB NO: 4557  
 DEPTH: 4.2-4.4  
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	82
12.5	72
10.0	66
5.0	53
2.5	--
2.0	41
1.25	--
0.840	31
0.630	--
0.420	19
0.315	--
0.160	--
0.150	6
0.080	4

M.C. (%): 13

LIMITS  
 LIQUID: --  
 PLASTIC: --  
 P.I.: N.P.

% GRAVEL: 47  
 % SAND: 49  
 % FINES: 4

CLASSIFICATION: POORLY GRADED SAND WITH GRAVEL (SP)