

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

KM 1787.5 TO KM 1797.6
YUKON 1999-2000

ALASKA HIGHWAY #1

Highway Construction
Km 1787.5 to Km 1797.6
Alaska Highway #1
Yukon 1999-2000
Book 1 of 2

This Data Package prepared for project viewing:

January, 1999

Transportation Engineering Branch
Geotechnical Services
461 Range Road
Whitehorse, Yukon

GR-01-085

CONTENTS

INTRODUCTION

Investigation notes, classification methods and legends.

CENTRELINE TESTING ALASKA HIGHWAY

Subsurface exploration and testing report sheets are provided.

The reports for the centreline holes are arranged according to project location, starting at Km 1787 + 550 and increasing to Km 1797 + 455.

Auger Testing

1995	TEST HOLES 309 to 348	shown with prefix 371-
	TEST HOLES 349 to 400	shown with prefix 372-
	TEST HOLES 401 to 442	shown with prefix 373-
1998	TEST HOLES 242 to 252	shown with prefix 499-
	TEST HOLES 253 to 266	shown with prefix 500-
	TEST HOLES 267 to 279	shown with prefix 501-
	TEST HOLES 293 to 299	shown with prefix 502-
	TEST HOLES 300 to 304	shown with prefix 503-

GRANULAR SOURCE Km 1796 ALASKA HIGHWAY

History of Aggregate Production

1993	BST Type II
1993	Granular "A"
1995	Granular "A"

Backhoe Testing

1988	TEST HOLES 06	shown with prefix 034
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INTRODUCTION

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ALASKA HIGHWAY #1

INTRODUCTION

GEOTECHNICAL INVESTIGATION DATA

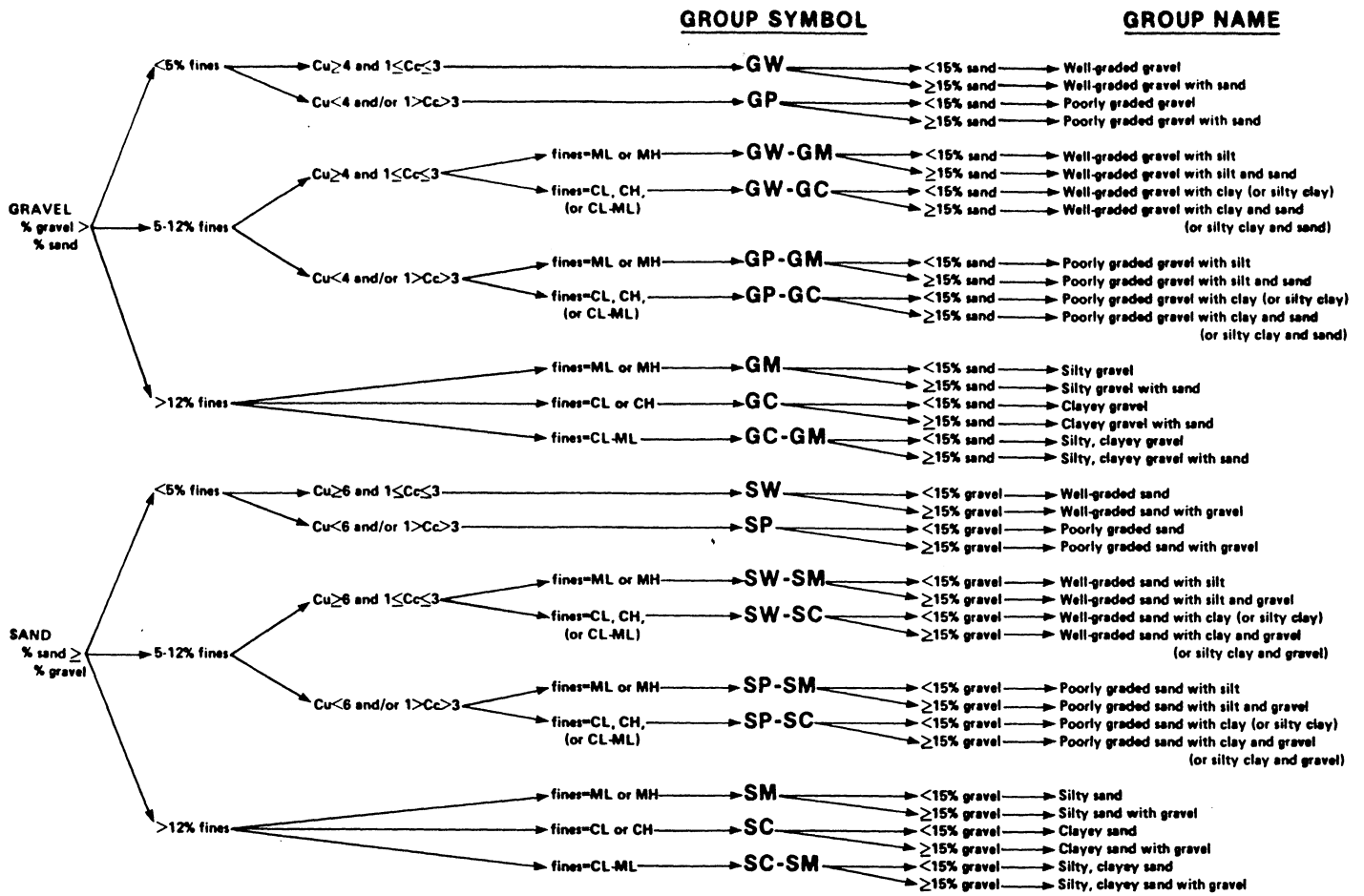
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

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

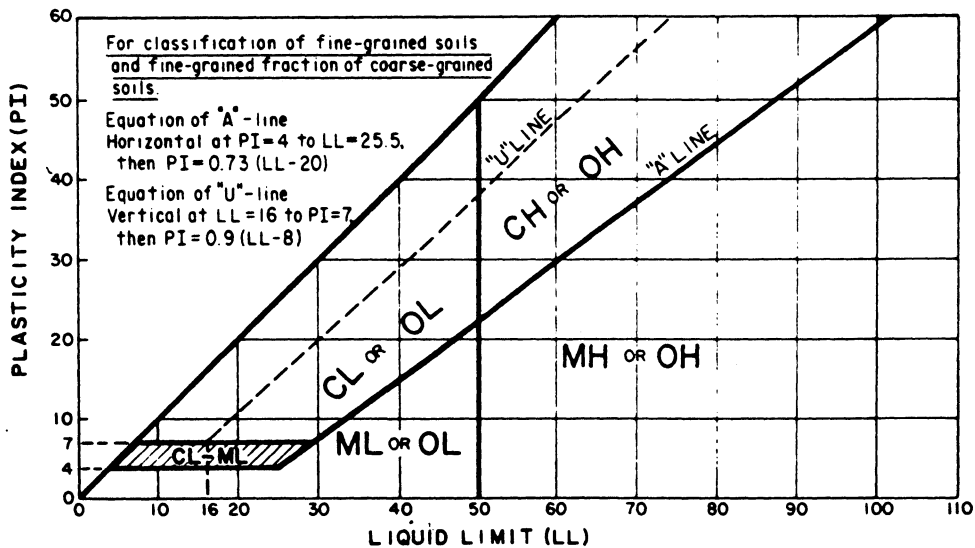
The sample identification and laboratory testing data is provided to give detailed physical properties of selected retrieved samples within the subsurface profile. ***These tests may be conducted on disturbed samples and may exhibit properties different from the native materials. The sample classification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

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

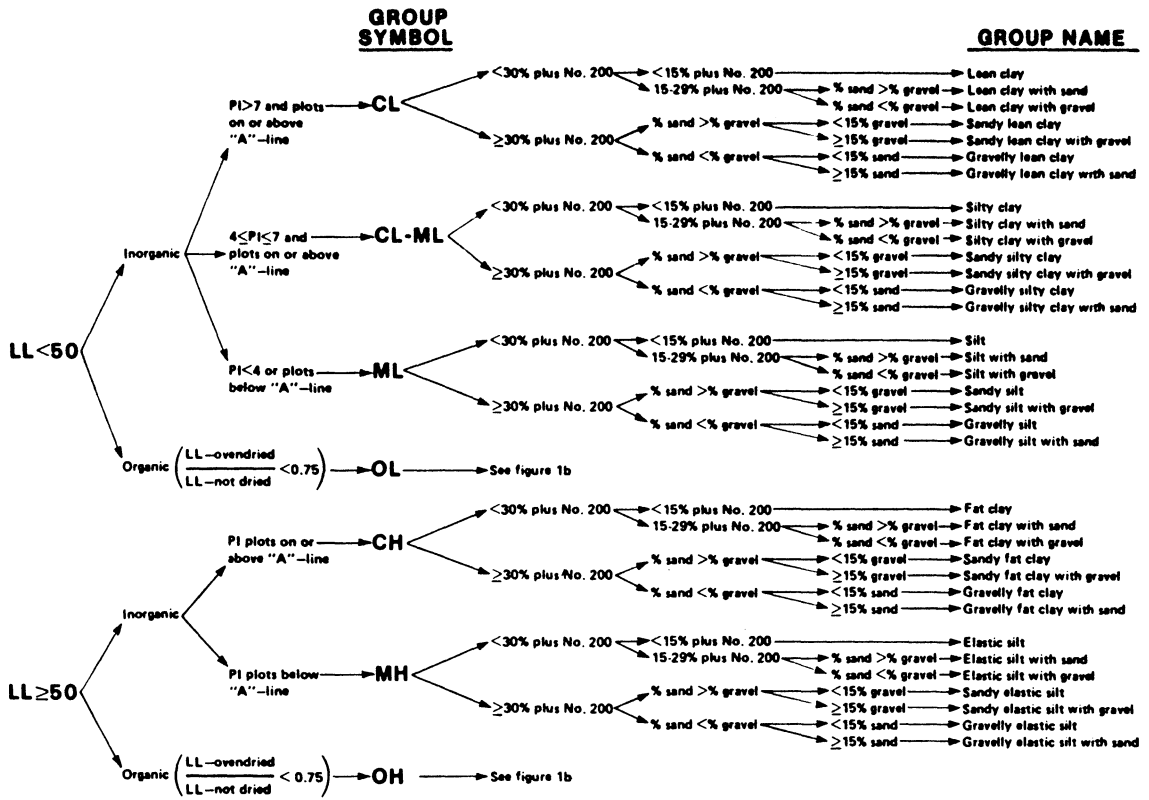
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions at the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



Flow chart for classifying coarse-grained soil.



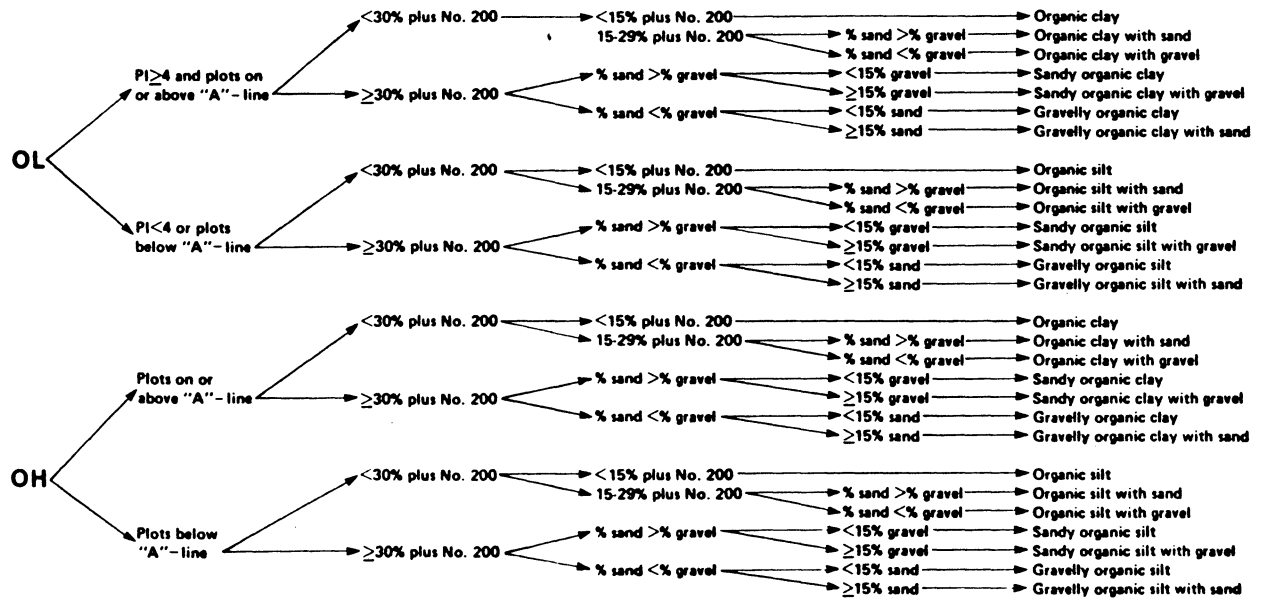
Plasticity chart.



Flow chart for classifying fine-grained soil.

GROUP SYMBOL

GROUP NAME



Flow chart for classifying organic soil.

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

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




Soil classification chart

UNIFIED SOIL CLASSIFICATION†

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

GROUND ICE DESCRIPTION

ICE NOT VISIBLE

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





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 

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

		BOUNDARY LINES ON DRILL LOGS			TEST HOLE NO: 3			
ENGINEERING-CAPITAL					Project No:			
					ELEVATION: 0.00 (m)			
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲	USC	SOIL SYMBOL	◆ PERCENT SAND ◆	DEPTH (m)
				▲ 20 40 60 80 ▲			◆ 20 40 60 80 ◆	
				PLASTIC M.C. LIQUID			■ PERCENT GRAVEL ■	
				-----●-----			20 40 60 80	
0.0	BOUNDARY LINES							0.0
	A solid line is used when a definite soil change is logged and a depth is known.							
1.0	A dashed line is used when a definite soil change is noted either by the field log or the sample test results and the depth of change is unknown.							1.0
2.0	A dotted line is used when a gradual or gradational change is noted by field notes and sample test results.							2.0
3.0								3.0
4.0								4.0
5.0								5.0
6.0								6.0
Government of Yukon Transportation Engineering					LOGGED BY:	COMPLETION DEPTH: 6.0 m		
					REVIEWED BY:	COMPLETE: / /		
					Fig. No:	Page 1 of 1		

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ALASKA HIGHWAY #1

CENTRELINE TESTING
Km 1787.5 to Km 1797.6
ALASKA HIGHWAY

HIGHWAY CONSTRUCTION

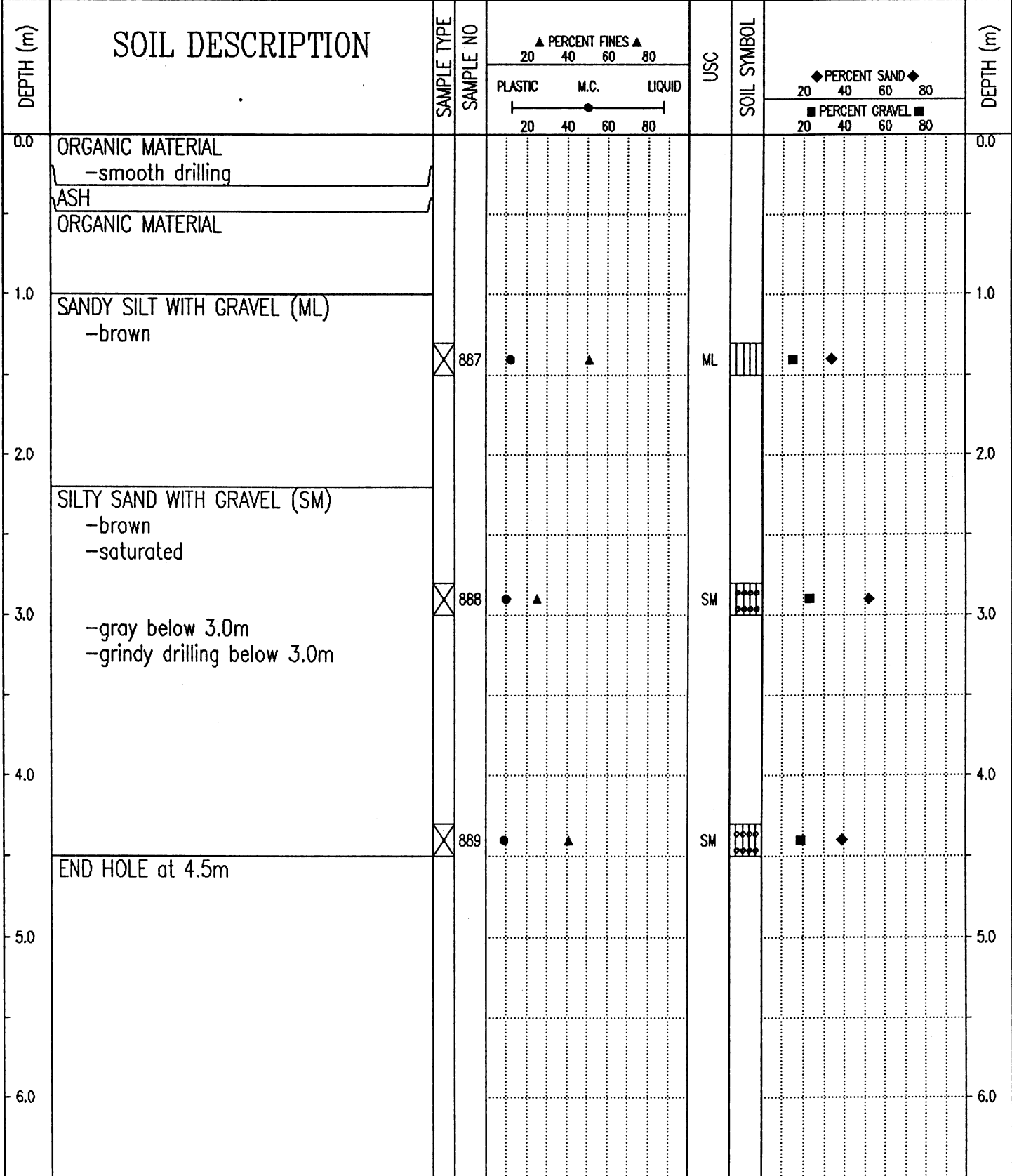
GEOTECHNICAL INVESTIGATION
KM 1787.5 TO KM 1797.6
YUKON 1999-2000

ALASKA HIGHWAY #1

CENTRELINE TESTING
Km 1787.5 to Km 1797.6
ALASKA HIGHWAY

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-442
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1787+550 o/s 12m Lt.	ELEVATION: 0.00 (m)

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



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	REVIEWED BY:	COMPLETE: 95/08/04
	Fig. No:	Page 1 of 1

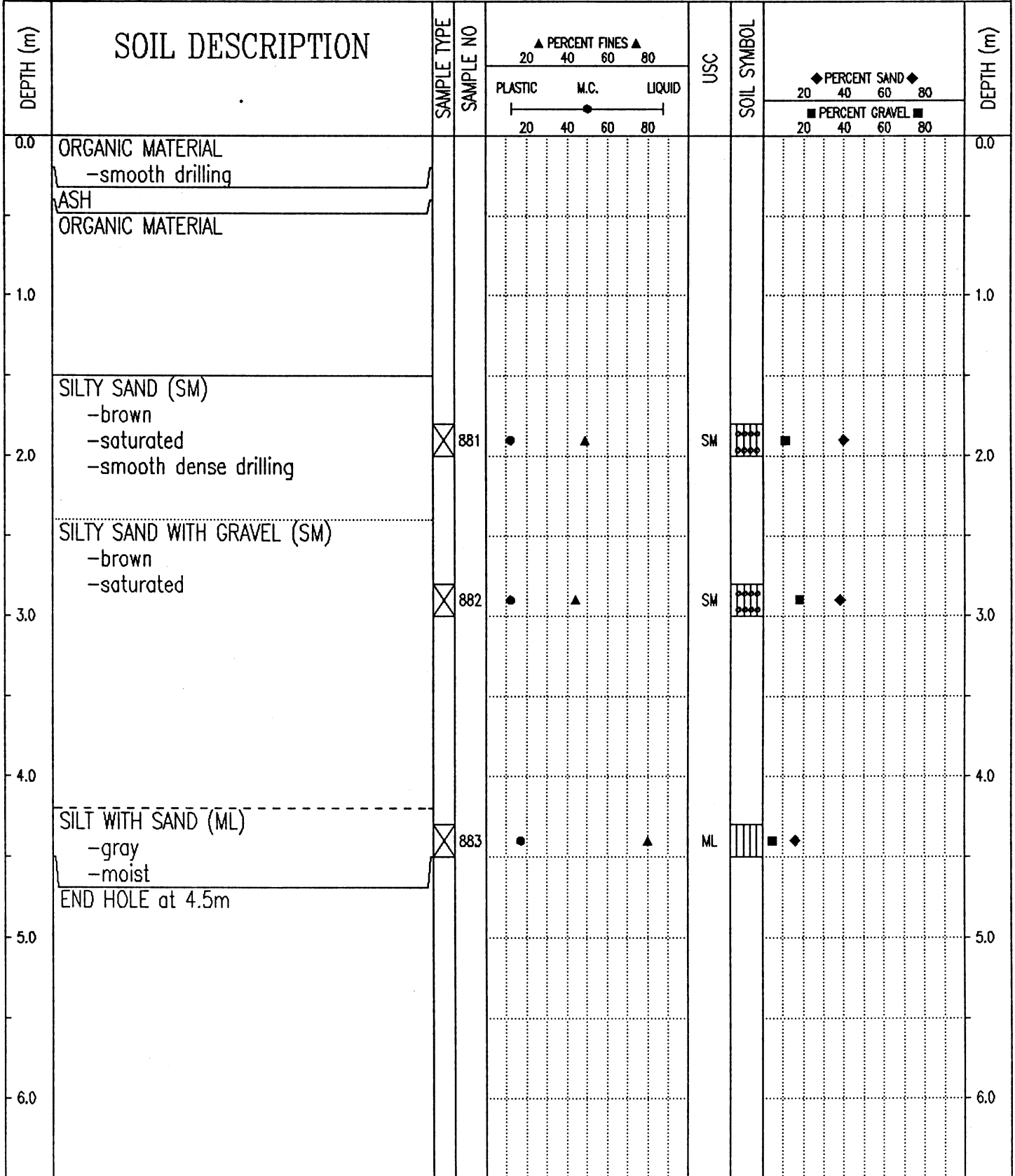
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

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 -smooth drilling ASH ORGANIC MATERIAL										0.0
1.0	SANDY SILT (ML) -brown -moist	<input checked="" type="checkbox"/>	884	●		▲	ML	▨	◆		1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -saturated -grindy drilling	<input checked="" type="checkbox"/>	885	●	▲		SM	▨	◆	■	2.0
3.0	SILTY GRAVEL WITH SAND (GM) -brown -moist	<input checked="" type="checkbox"/>	886	●	▲		GM	▨	◆	■	3.0
4.0	END HOLE at 4.5m										4.0
5.0											5.0
6.0											6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-440
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1787+900 o/s 8m Lt.	ELEVATION: 0.00 (m)

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



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Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-439
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+050 o/s 8m Lt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	SILTY SANDY GRAVEL -brown -moist -maximum 100mm material augered up -grindy drilling										0.0
1.0											1.0
2.0	ORGANIC MATERIAL -smooth drilling										2.0
3.0	SILTY GRAVEL WITH SAND (GM) -brown -saturated		879	●	▲		GM	◆	■		3.0
4.0	SILT (ML) -brown -saturated		880	●	▲		ML	◆			4.0
5.0	END HOLE at 4.5m -on shoulder of existing highway										5.0
6.0											6.0

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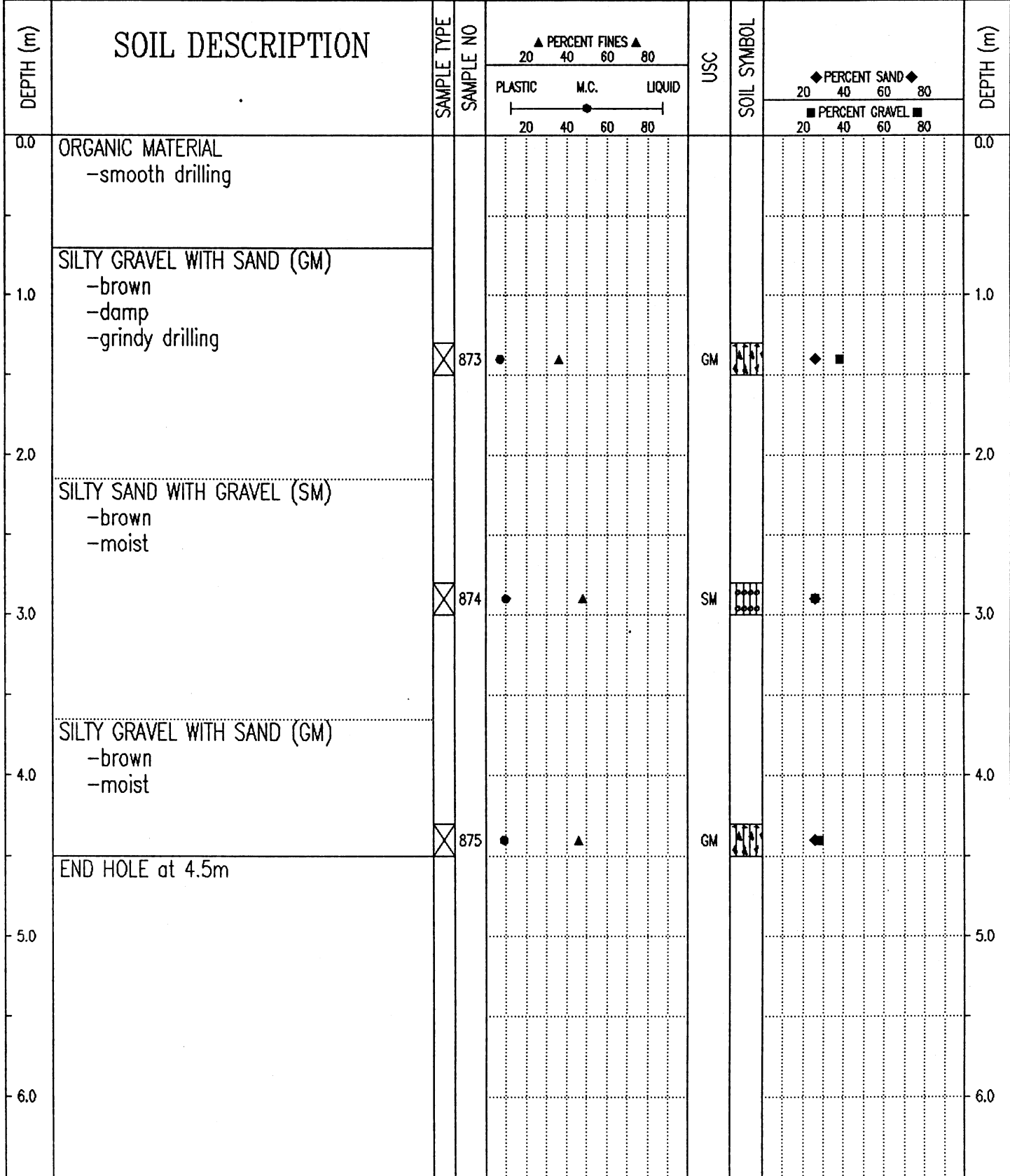
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-438
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+200 o/s 20m Lt.	ELEVATION: 0.00 (m)

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 ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL												
1.0	-frozen below 0.9m -stiffer drilling below 0.9m											1.0	
2.0	SANDY SILT WITH GRAVEL (ML) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	876	●	▲		ML	▨	◆	■		2.0	
3.0	SANDY SILT (ML) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	877	●	▲		ML	▨	◆	■		3.0	
4.0												4.0	
5.0	END HOLE at 4.5m	<input checked="" type="checkbox"/>	878	●	▲		ML	▨	◆	■		5.0	
6.0												6.0	

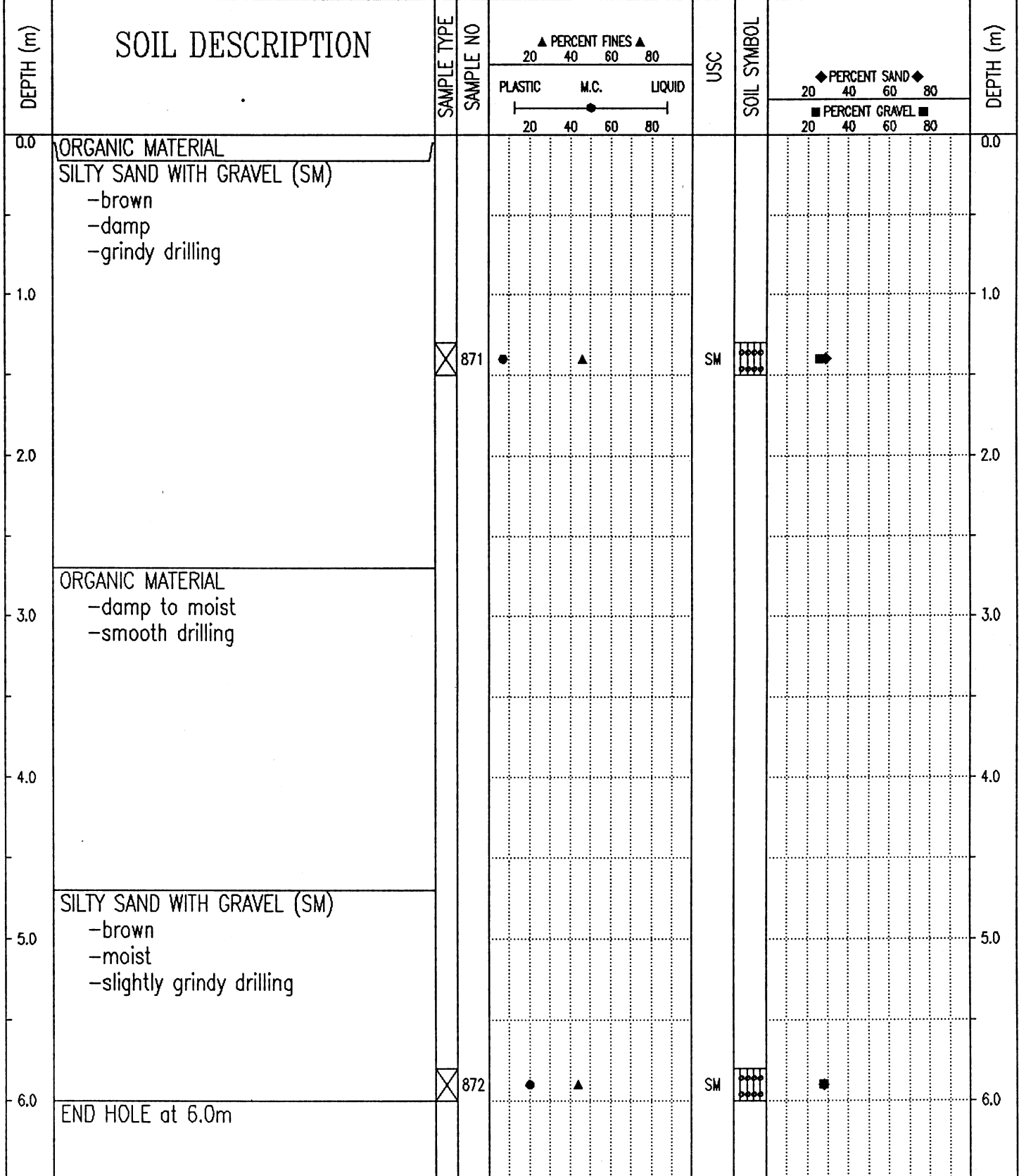
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-436
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+435	ELEVATION: 0.00 (m)

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



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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-435
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+540	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
0.0 - 1.0	SILT WITH SAND (ML) -brown -damp										
1.0 - 2.0											
2.0 - 2.5	ASH										
2.5 - 3.0	SILTY SAND WITH GRAVEL (SM) -brown -damp										
3.0 - 4.5											
4.0 - 4.5	-moist below 4.2m										
4.5	END HOLE at 4.5m										

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-434
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+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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DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL											0.0	
	SILT WITH SAND (ML) -brown -damp												
1.0												1.0	
			865				ML						
2.0												2.0	
	SILTY SANDY GRAVEL -grindy drilling												
	SILTY SAND (SM) -brown -damp -smooth drilling												
3.0			866				SM					3.0	
4.0												4.0	
	SANDY SILT (ML) -brown -moist to saturated -organics												
5.0			867				ML					5.0	
	END HOLE at 4.5m -grindy drilling at bottom of hole												
6.0												6.0	

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COMPLETION DEPTH: 4.5 m

COMPLETE: 95/08/04

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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 -smooth drilling										0.0
	ASH										
1.0	SILTY SAND WITH GRAVEL (SM) -brown -damp										1.0
	-grindy drilling below 1.6m										
2.0											2.0
3.0	SANDY SILT (ML) -brown -damp										3.0
4.0											4.0
	-moist below 4.2m										
5.0	END HOLE at 4.5m										5.0
6.0											6.0

SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 503-304									
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328									
D-4 CAT B-40		LOCATION: 1788+825 20M RHS		ELEVATION: 0.00 (m)									
SAMPLE TYPE		RETURN		S.P.T.									
		<input checked="" type="checkbox"/> AUGER		<input type="checkbox"/> BULK									
		<input type="checkbox"/> TUBE		<input type="checkbox"/> CORE									
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60		
0.0	ORGANIC -frozen -smooth easy drilling to 1.1m												0.0
1.0	SILT -frozen	<input checked="" type="checkbox"/>	66										1.0
2.0	SILTY GRAVEL WITH SAND (GM) -frozen -first refusal at 1.5m -moved downchain -grindy drilling	<input checked="" type="checkbox"/>	67				GM						2.0
3.0	TILL -frozen -very slow grindy drilling	<input checked="" type="checkbox"/>	68										3.0
4.0	END HOLE at 4.2m -refusal -rock dust on bit -(till) -new bit in this hole												4.0
5.0													5.0
6.0													6.0

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LOGGED BY: B.S.

REVIEWED BY:

Fig. No:

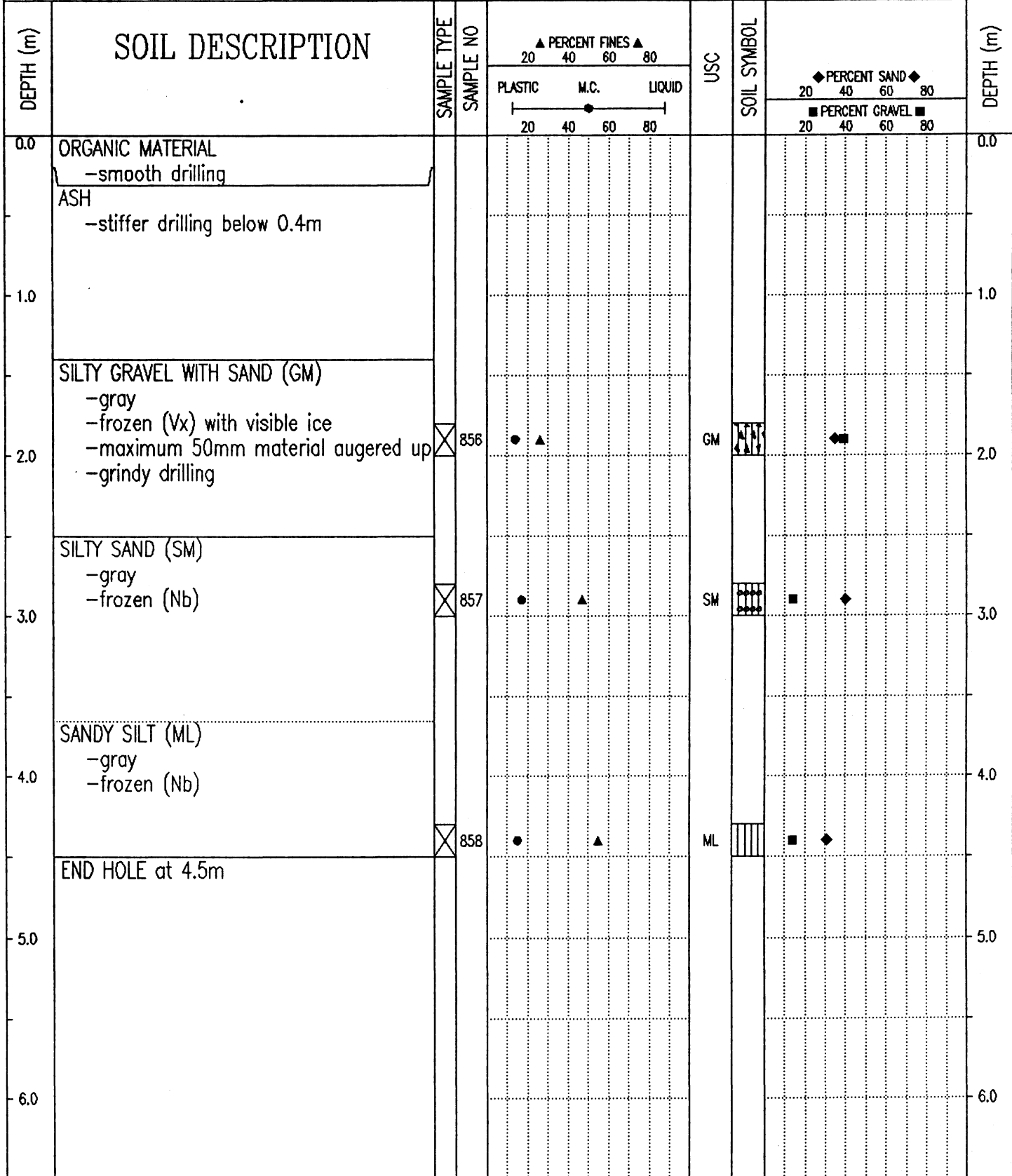
COMPLETION DEPTH: 4.2 m

COMPLETE: 98/12/04

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-431
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+825 o/s 15m Lt.	ELEVATION: 0.00 (m)

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

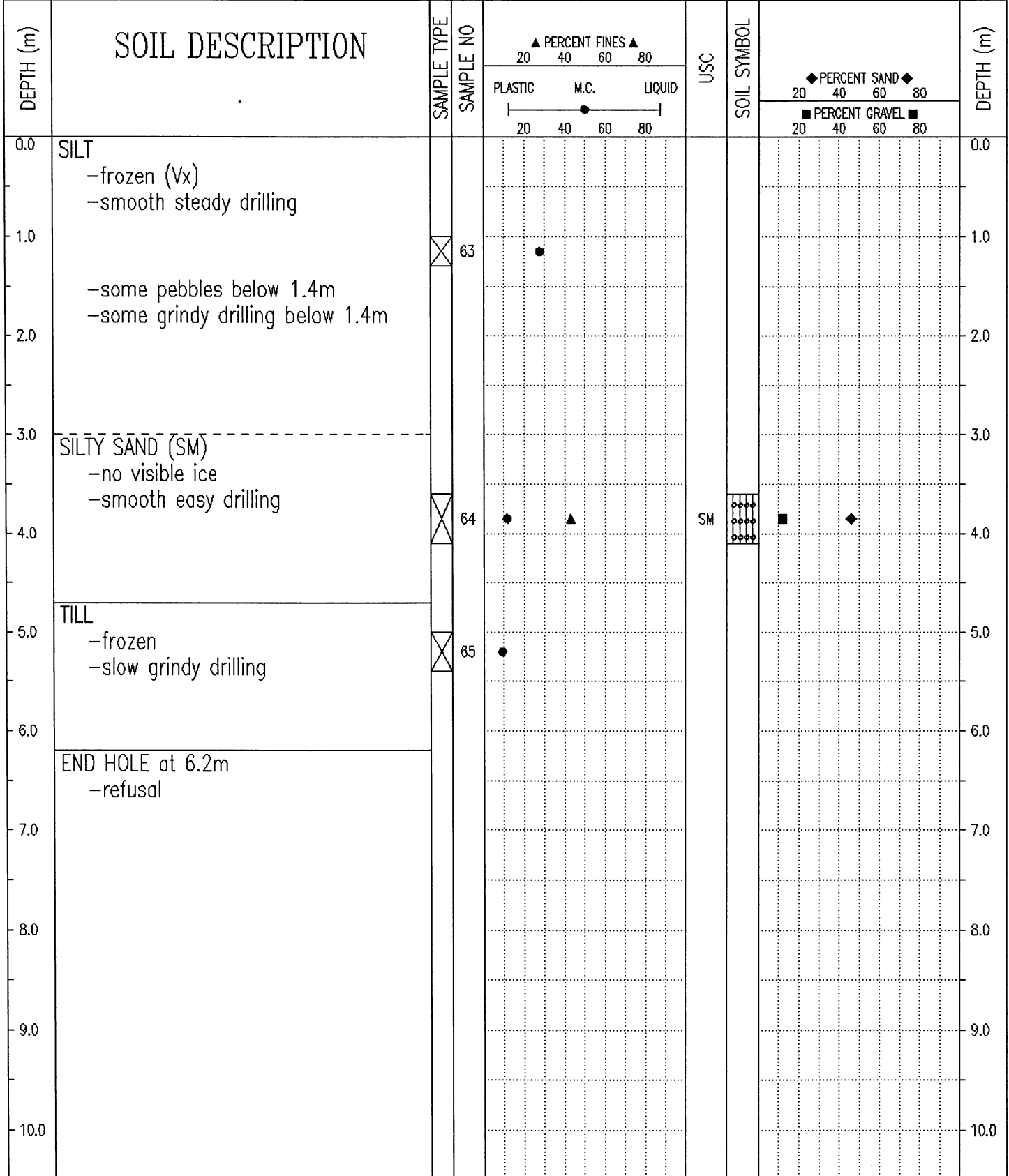


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LOGGED BY: CC	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 95/08/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 503-303
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1788+825 19M LHS	ELEVATION: 0.00 (m)

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



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LOGGED BY: B.S.	COMPLETION DEPTH: 6.2 m
REVIEWED BY:	COMPLETE: 98/12/04
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-430
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+850	ELEVATION: 0.00 (m)

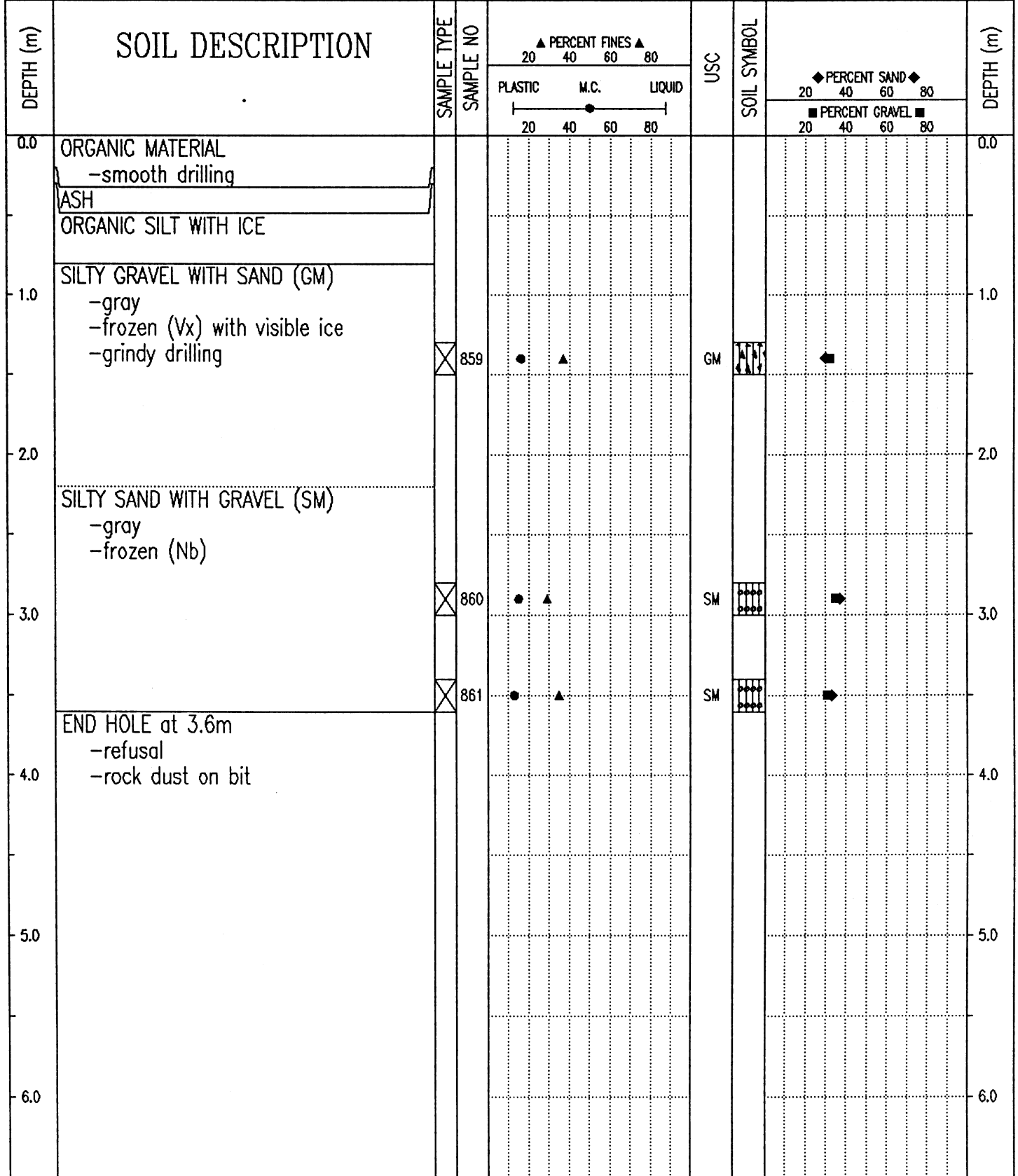
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

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 -smooth drilling											0.0	
	ASH												
	ORGANIC SILT WITH ICE -stiffer drilling												
1.0												1.0	
	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -maximum 50mm material augered up -grindy drilling												
2.0												2.0	
3.0			855	●	▲		SM	◆	■			3.0	
	END HOLE at 3.1m -refusal -rock dust on bit												
4.0												4.0	
5.0												5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 95/08/04
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-432
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+875 o/s 15m Rt.	ELEVATION: 0.00 (m)

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



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Fig. No:
COMPLETION DEPTH: 3.6 m
COMPLETE: 95/08/04
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-429
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1788+900	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling ASH										0.0
1.0	ORGANIC MATERIAL -frozen -stiffer drilling										1.0
2.0	ORGANIC SILT AND ICE										2.0
3.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling		854	●	▲		SM	■	◆		3.0
4.0	END HOLE at 3.2m -refusal -rock dust on bit										4.0
5.0											5.0
6.0											6.0

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LOGGED BY: CC	COMPLETION DEPTH: 3.2 m
REVIEWED BY:	COMPLETE: 95/08/04
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 503-302
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1788+950 CENTRELINE	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	DEPTH (m)
				20	40	60			
				PLASTIC	M.C.	LIQUID		◆ PERCENT SAND ◆	
				20	40	60	80	20	40
								■ PERCENT GRAVEL ■	
				20	40	60	80	20	40
0.0	ORGANIC -frozen (Vx) -smooth slow drilling								0.0
1.0	SILT WITH ORGANICS -frozen -smooth drilling (new bit at 1.6m)								1.0
		<input checked="" type="checkbox"/>	60						
2.0									2.0
3.0	SANDY SILT -with pebbles -frozen -slow grindy drilling								3.0
4.0		<input checked="" type="checkbox"/>	61						4.0
5.0	SILT -frozen -smooth drilling								5.0
		<input checked="" type="checkbox"/>	62						
6.0	END HOLE at 6.0m								6.0

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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 6.0 m

COMPLETE: 98/12/03

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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 -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL AND ICE -stiffer drilling										
1.0	ORGANIC SILT WITH ICE										1.0
2.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Nb)	<input checked="" type="checkbox"/>	851	●	▲		GM	◆	■		2.0
	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	852	●	▲		SM	◆	■		3.0
4.0	SILTY SAND (SM) -gray -frozen (Nb)	<input checked="" type="checkbox"/>	853	●	▲		SM	◆	■		4.0
	END HOLE at 4.1m -refusal -rock dust on bit										

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	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL AND ICE -stiffer drilling												
1.0												1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -slightly grindy drilling	<input checked="" type="checkbox"/>	847	●	▲		SM	▣	◆	■		2.0	
3.0	-gray below 2.8m -frozen (Nb) below 2.8m -grindy drilling below 2.8m END HOLE at 3.2m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	848	●	▲		SM	▣	◆	■		3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-427
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+100	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	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL AND ICE -stiffer drilling												
1.0												1.0	
	SANDY SILT WITH GRAVEL (ML) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	849	●	▲		ML	▨	◆	■			
2.0												2.0	
	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	850	●	▲		SM	▨	◆	■			
3.0												3.0	
	END HOLE at 3.1m -refusal -rock dust on bit												
4.0												4.0	
5.0												5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 95/08/04
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-425
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+175 o/s 80m Lt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH											
	ORGANIC MATERIAL AND ICE -stiffer drilling											
1.0												1.0
	ORGANIC SILT AND ICE											
2.0												2.0
	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nb) -grindy drilling											
3.0			846	●	▲		GM		◆	■		3.0
	END HOLE at 3.2m -refusal -rock dust on bit											
4.0												4.0
5.0												5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 95/08/04
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-424
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+200	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 -smooth drilling										0.0	
	ASH											
1.0	SANDY SILT (ML) -gray -frozen (Vx) with visible ice -stiffer drilling										1.0	
		<input checked="" type="checkbox"/>	844	45	55	65	ML	10	15	20		
2.0											2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling										3.0	
		<input checked="" type="checkbox"/>	845	45	55	65	SM	10	15	20		
4.0	END HOLE at 3.1m -refusal -rock dust on bit										4.0	
5.0											5.0	
6.0											6.0	

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	REVIEWED BY:	COMPLETE: 95/08/04
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-422
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+320	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 -smooth drilling											0.0
	ASH											
	ORGANIC MATERIAL AND ICE -stiffer drilling											
1.0												1.0
2.0												2.0
3.0	SANDY SILT (ML) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	840				ML					3.0
	END HOLE at 3.2m -refusal -rock dust on bit -surface water in area											
4.0												4.0
5.0												5.0
6.0												6.0

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LOGGED BY: CC	COMPLETION DEPTH: 3.2 m
REVIEWED BY:	COMPLETE: 95/08/03
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-421
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+320 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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				20	40	60			80	20	40	
0.0	ORGANIC MATERIAL -smooth drilling -frozen with lots of ice below 0.3m -stiffer drilling below 0.3m											0.0
1.0												1.0
2.0												2.0
3.0	SILT WITH ICE -gray											3.0
4.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nb) -grindy drilling											4.0
5.0	END HOLE at 4.5m -surface water in area	<input checked="" type="checkbox"/>	839	●	▲		GM		◆	■		5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 95/08/03
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-423
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+320 o/s 20m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL AND ICE -stiffer drilling												
1.0												1.0	
2.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	841	▲	●		GM		◆	■		2.0	
3.0	SILTY GRAVEL (GM) -gray -frozen (Vx) with visible ice -maximum 75mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	842	▲	●		GM		◆	■		3.0	
4.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Vx) with visible ice -maximum 50mm material augered up	<input checked="" type="checkbox"/>	843	●	▲		GM		◆	■		4.0	
5.0	END HOLE at 4.5m											5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 95/08/03
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-420
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+400	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 -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL -frozen												
1.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -grindy drilling -sample #836 lost		836									1.0	
2.0												2.0	
3.0	-frozen (Nb) below 2.8m		837				GM					3.0	
4.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb)		838				SM					4.0	
5.0	END HOLE at 4.5m											5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 95/08/03
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-419
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+500 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		

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 -smooth drilling										0.0	
	ASH											
1.0	ORGANIC MATERIAL AND ICE -stiffer drilling										1.0	
2.0	SILTY SAND (SM) -gray -frozen (Vx) with visible ice -grindy drilling										2.0	
3.0		<input checked="" type="checkbox"/>	835	●	▲		SM	■	◆		3.0	
4.0	END HOLE at 3.2m -refusal -rock dust on bit										4.0	
5.0											5.0	
6.0											6.0	

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	REVIEWED BY:	COMPLETE: 95/08/03
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-418
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+500	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH -frozen -stiffer drilling										
1.0	ORGANIC MATERIAL AND ICE										1.0
2.0											2.0
	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nb) -grindy drilling										
3.0		<input checked="" type="checkbox"/>	833	●	▲		GM	◆	■		3.0
4.0											4.0
	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling										
4.5		<input checked="" type="checkbox"/>	834	●	▲		SM	◆	■		4.5
5.0	END HOLE at 4.5m										5.0
6.0											6.0

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Fig. No:

COMPLETION DEPTH: 4.5 m

COMPLETE: 95/08/03

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-417
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+500 o/s 20m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■		
				20 40 60 80	20 40 60 80	20 40 60 80			20 40 60 80		
0.0	ORGANIC MATERIAL -smooth drilling -frozen with lots of ice below 0.4m -stiffer drilling below 0.4m										0.0
1.0											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling		832	●	▲		SM	◆◆◆◆	■◆		2.0
3.0	END HOLE at 2.4m -refusal -rock dust on bit										3.0
4.0											4.0
5.0											5.0
6.0											6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-416
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+575	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL AND ICE -stiffer drilling										
1.0											1.0
2.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling										2.0
3.0		<input checked="" type="checkbox"/>	830	●	▲		SM	▨	◆	■	3.0
4.0		<input checked="" type="checkbox"/>	831	●	▲		SM	▨	◆	■	4.0
4.0	END HOLE at 4.0m -refusal -rock dust on bit										4.0
5.0											5.0
6.0											6.0

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	REVIEWED BY:	COMPLETE: 95/08/03
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-415
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+675	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
1.0	ORGANIC MATERIAL -frozen -stiffer drilling											1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Vx) with visible ice -grindy drilling											2.0	
3.0		<input checked="" type="checkbox"/>	828	●	▲		SM	▣	◆	■		3.0	
4.0												4.0	
5.0	-frozen (Nb) below 4.2m	<input checked="" type="checkbox"/>	829	●	▲		SM	▣	◆	■		5.0	
6.0	END HOLE at 4.5m											6.0	

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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/08/03

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-414
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+775	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 -smooth drilling										0.0	
	ASH											
	ORGANIC MATERIAL -frozen -stiffer drilling											
1.0	SILT (ML) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	825				ML				1.0	
2.0												
3.0	SILTY SAND (SM) -gray -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	826				SM				3.0	
4.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	827				SM				4.0	
4.0	END HOLE at 3.8m -refusal -rock dust on bit											
5.0											5.0	
6.0											6.0	

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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 -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL										
1.0	SILT (ML) -brown -frozen (Nb) -organic -stiffer drilling	<input checked="" type="checkbox"/>	822			●▲	ML	▨	◆		1.0
2.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling										
3.0		<input checked="" type="checkbox"/>	823	●	▲		SM	▨	◆	■	3.0
4.0	SANDY SILT (ML) -gray -frozen (Nb) -smooth drilling										
5.0	END HOLE at 4.5m -on old trail	<input checked="" type="checkbox"/>	824	●	▲		ML	▨	◆	■	5.0
6.0											6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-412
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1789+975	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	SILT -gray -visible ice -stiffer drilling											1.0	
	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	820	●	▲		GM		◆	■		2.0	
	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	821	●	▲		SM		◆	■		3.0	
	END HOLE at 3.6m -refusal -rock dust on bit											4.0	
												5.0	
												6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-409
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+050 o/s 20m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH -frozen -stiffer drilling											
1.0	ORGANIC MATERIAL -ice											1.0
2.0												2.0
3.0	SILTY SAND (SM) -gray -frozen (Nb) -grindy drilling		815	●	▲		SM	◆◆◆◆	■	◆		3.0
	END HOLE at 2.8m -refusal -rock dust on bit											
4.0												4.0
5.0												5.0
6.0												6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-410
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+055	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 -smooth drilling									0.0	
	ASH -frozen -stiffer drilling										
1.0	ORGANIC MATERIAL AND ICE									1.0	
2.0										2.0	
3.0	SANDY SILT (ML) -gray -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	816	●	▲		ML	■	◆	3.0	
	ORGANIC MATERIAL AND ICE										
4.0										4.0	
5.0	END HOLE at 4.5m									5.0	
6.0										6.0	

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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/08/03

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-411
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+065 o/s 15m Lt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH -frozen -stiffer drilling												
1.0	ORGANIC MATERIAL											1.0	
	SILT WITH SAND (ML) -frozen (Vx) with visible ice -organic	<input checked="" type="checkbox"/>	817				ML						
2.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Vx) with visible ice											2.0	
		<input checked="" type="checkbox"/>	818				GM						
3.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	819				SM						
4.0	END HOLE at 4.0m -refusal -rock dust on bit											4.0	
5.0												5.0	
6.0												6.0	

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COMPLETION DEPTH: 4.0 m
COMPLETE: 95/08/03

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-408
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+100 o/s 20m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH -frozen -stiffer drilling												
1.0	ORGANIC MATERIAL -frozen											1.0	
	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	813	●	▲		SM		■	◆			
2.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	814	●	▲		GM		■	◆		2.0	
3.0	END HOLE at 2.5m -refusal -rock dust on bit											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-407
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+160 o/s 20m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

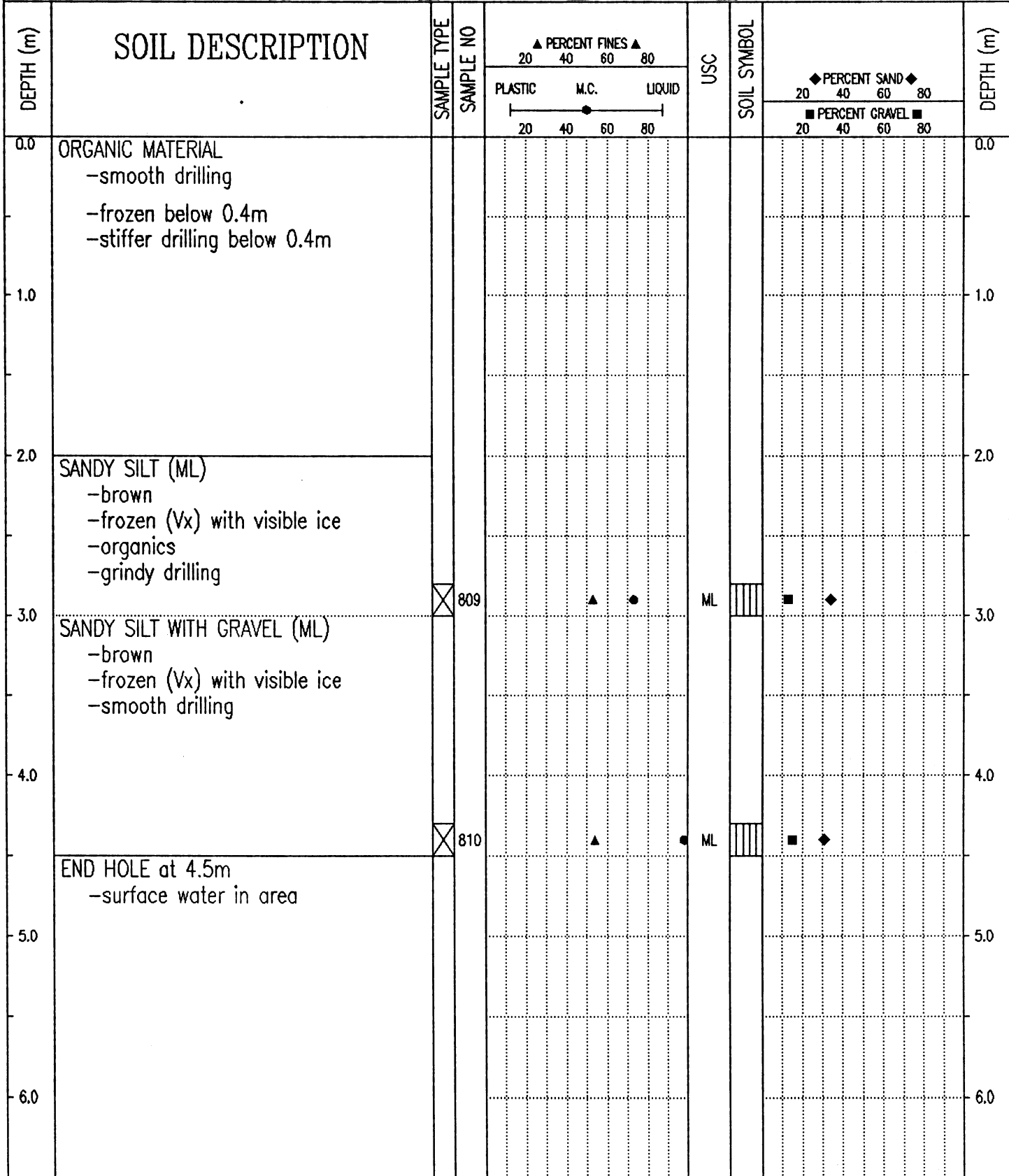
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH -frozen -stiffer drilling										
1.0	ORGANIC MATERIAL -frozen										1.0
2.0	SANDY SILT WITH ICE -gray -frozen										2.0
3.0	ORGANIC MATERIAL -frozen -trace of gravel										3.0
4.0											4.0
5.0	END HOLE at 4.5m -surface water in area										5.0
6.0											6.0

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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 -smooth drilling										0.0
	ASH -frozen -stiffer drilling										
1.0	ORGANIC MATERIAL -frozen with visible ice										1.0
2.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	811	●	▲		SM	■	◆		2.0
	ORGANIC ICE -trace of gravel										
4.0	SILTY GRAVEL WITH SAND (GM) -gray -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	812	●	▲		GM	■	◆		4.0
5.0	END HOLE at 4.6m -surface water in area										5.0
6.0											6.0

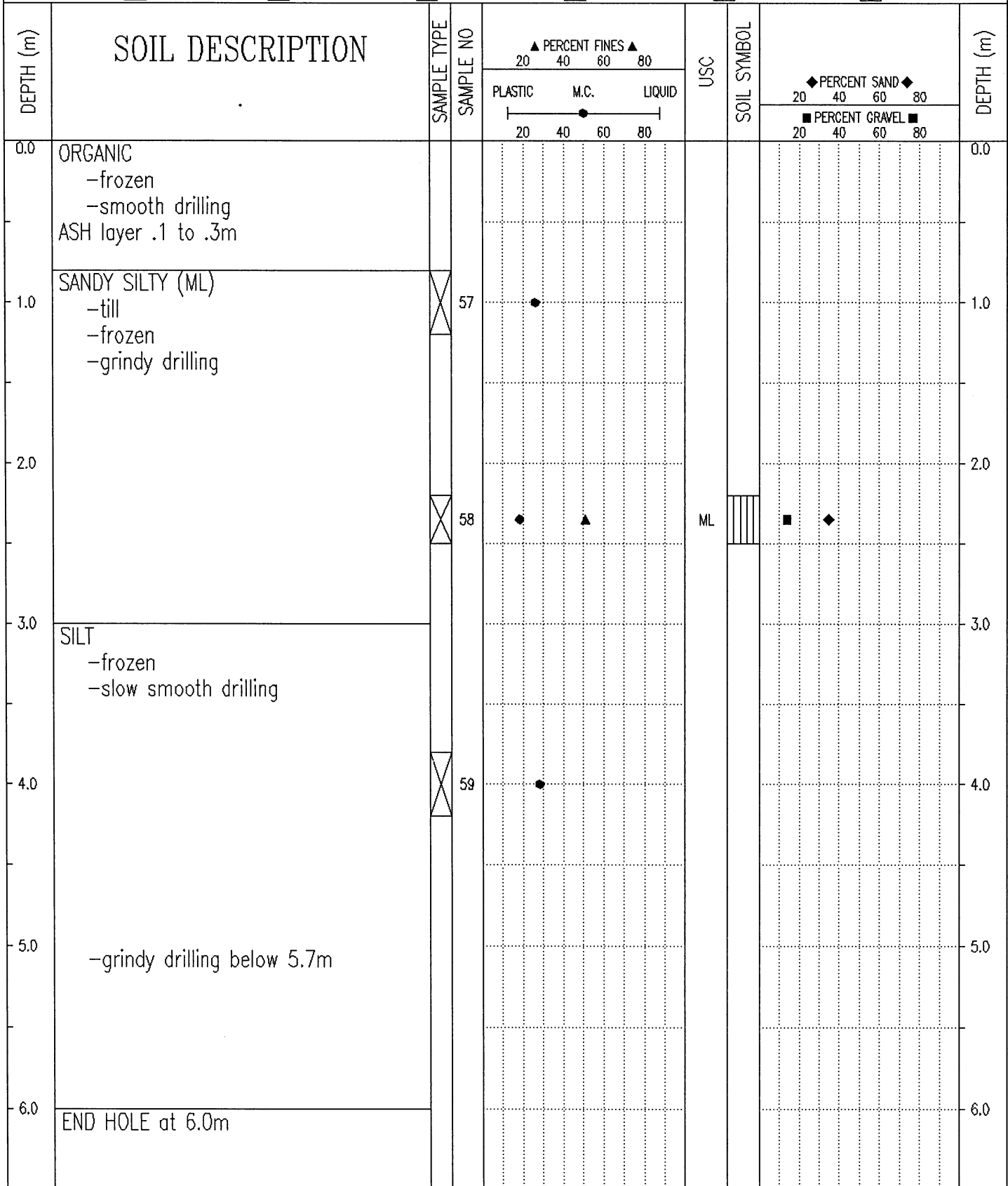
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-405
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+240 o/s 20m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 503-301
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1790+300 25M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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COMPLETION DEPTH: 6.0 m

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COMPLETE: 98/12/03

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-397
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+300 o/s 20m Lt.	ELEVATION: 0.00 (m)

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

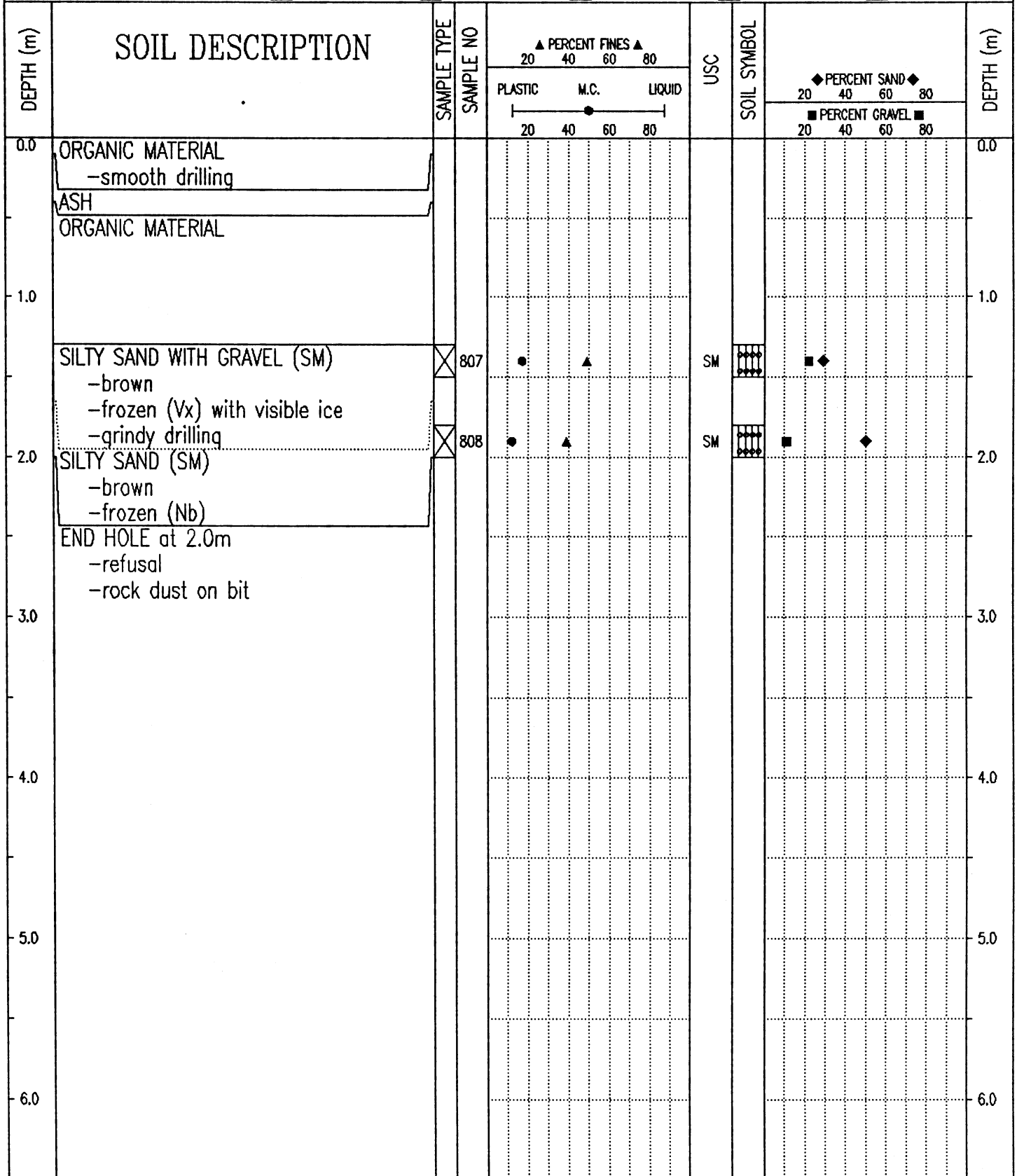
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC ICE -smooth drilling											0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -slightly grindy drilling	<input checked="" type="checkbox"/>	793	●	▲		SM	◆◆◆◆	◆	■		1.0	
2.0	SILTY SAND (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	794	●	▲		SM	◆◆◆◆	◆	■		2.0	
3.0	END HOLE at 2.7m -refusal -rock dust on bit											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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LOGGED BY: CC	COMPLETION DEPTH: 2.7 m
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-404
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+325 o/s 15m Rt.	ELEVATION: 0.00 (m)

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



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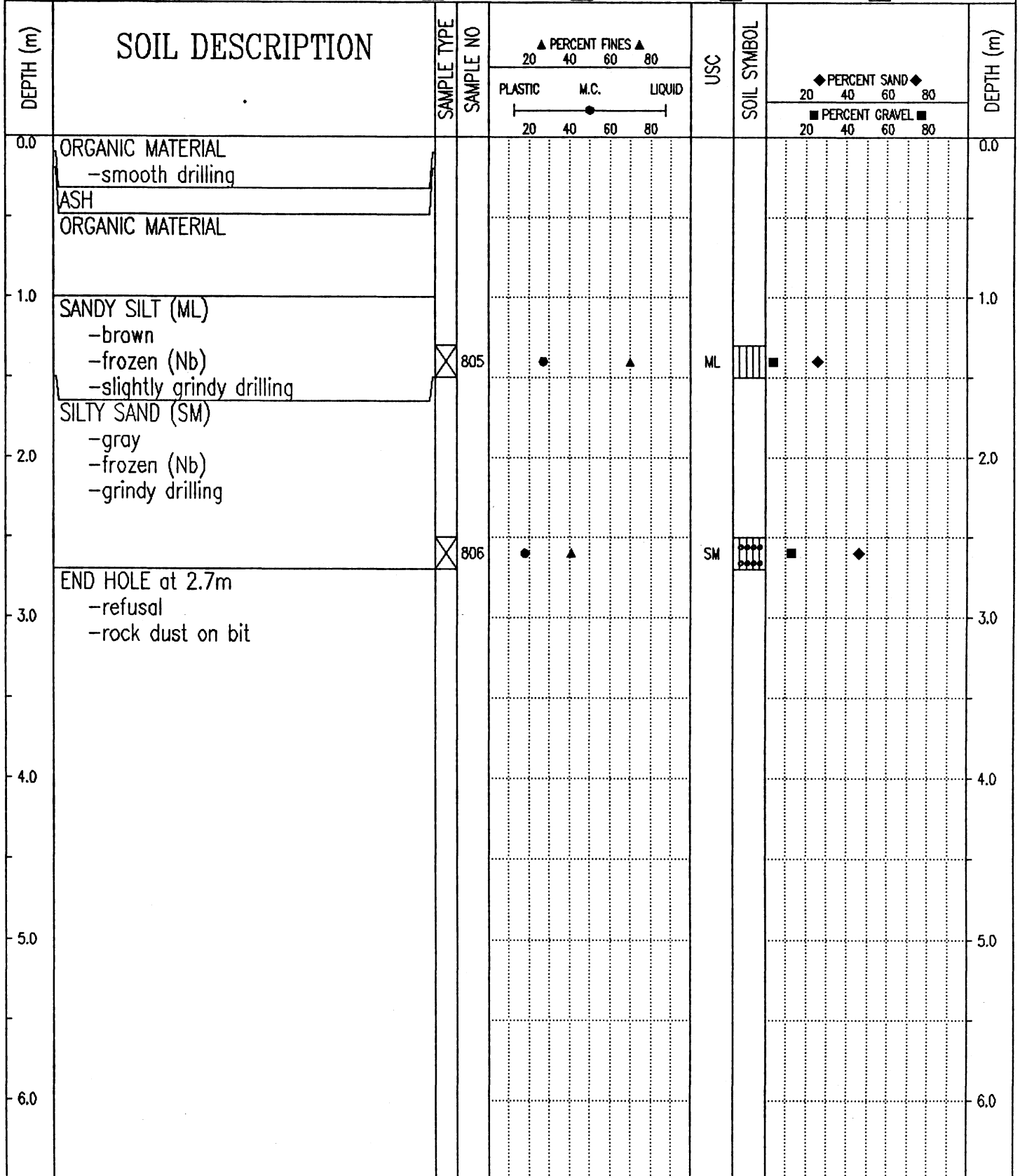
COMPLETION DEPTH: 2.0 m
COMPLETE: 95/08/02

SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 372-398
ENGINEERING-CAPITAL		SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER		LOCATION: 1790+350	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL -frozen												
1.0												1.0	
	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	795				GM						
2.0												2.0	
	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	796				SM						
3.0												3.0	
	END HOLE at 3.7m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	797				SM						
4.0												4.0	
5.0												5.0	
6.0												6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 373-403
ENGINEERING-CAPITAL		SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER		LOCATION: 1790+400 o/s 15m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE



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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-396
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+400 o/s 20m Lt.	ELEVATION: 0.00 (m)

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

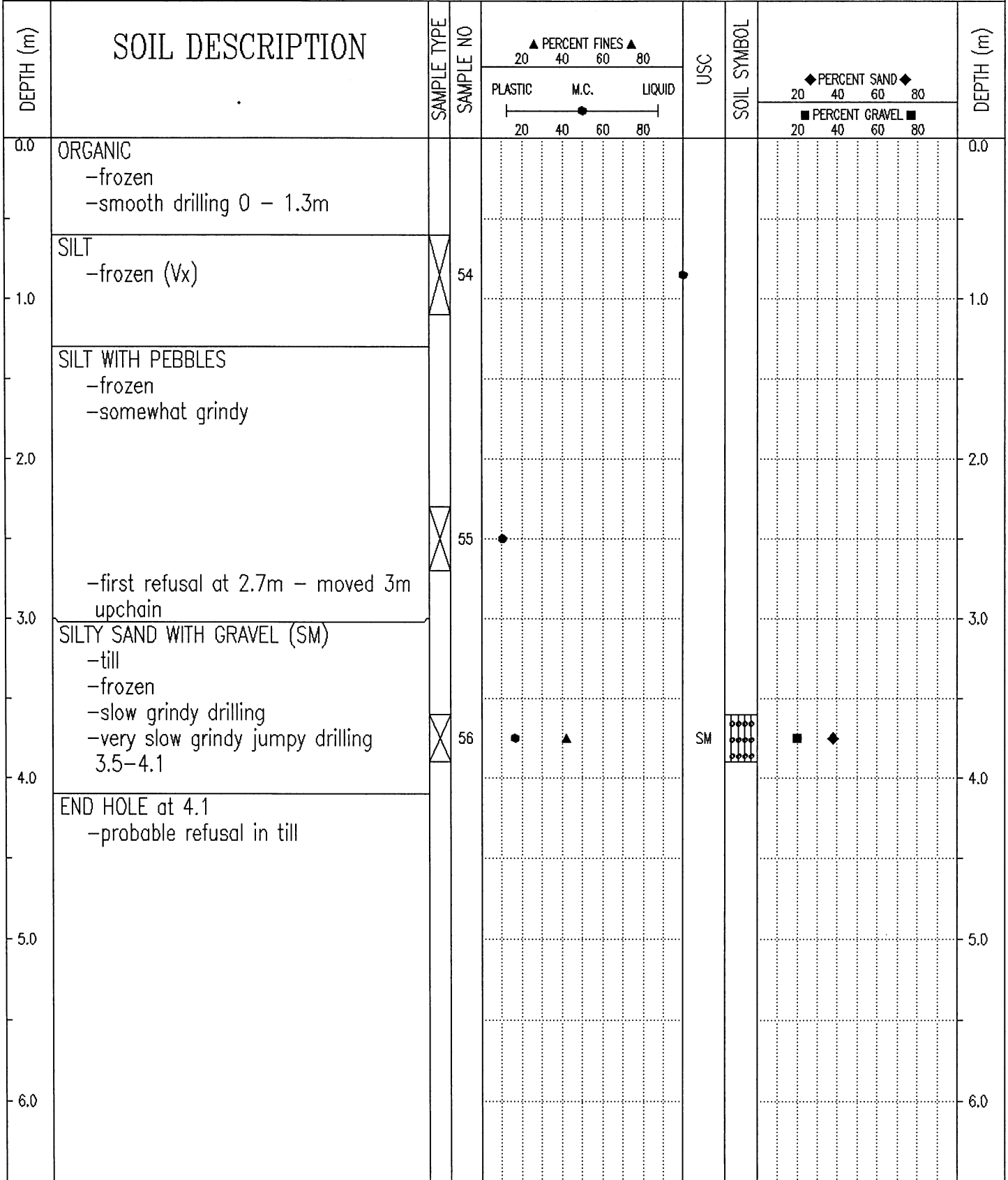
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL -frozen with visible ice										
1.0											1.0
	SILTY SAND -brown -frozen -slightly grindy drilling below 2.0m										
2.0											2.0
	SILTY SAND WITH GRAVEL (SM) -brown -frozen -grindy drilling		792	●	▲		SM	■	◆		
3.0	END HOLE at 3.0m -refusal -rock dust on bit										3.0
4.0											4.0
5.0											5.0
6.0											6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 503-300
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1790+425 26M LT	ELEVATION: 0.00 (m)

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



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Fig. No:

COMPLETION DEPTH: 4.1 m
COMPLETE: 98/12/03

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-399
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+450	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 -smooth drilling												
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling		798	●	▲		SM	◆◆◆◆	◆				
2.0													
3.0	-gray below 2.4m -frozen (Nb) below 2.4m -maximum 50mm material augered up END HOLE at 2.6m -refusal -rock dust on bit		799	●	▲		SM	◆◆◆◆	◆	■	◆		
4.0													
5.0													
6.0													

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	REVIEWED BY:	COMPLETE: 95/08/02
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-402
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+500 o/s 15m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■	PERCENT SAND ◆	
0.0	ORGANIC ICE -smooth drilling									0.0	
1.0										1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling -first refusal at 1.5m END HOLE at 1.7m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	804	●	▲		SM	◆◆◆◆	■	◆	2.0
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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	REVIEWED BY:	COMPLETE: 95/08/02
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-395
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+500 o/s 20m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH										
	ORGANIC ICE										
1.0											1.0
2.0											2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -maximum 50mm material augered up -slightly grindy drilling	<input checked="" type="checkbox"/>	791	●	▲		SM	■	◆		3.0
	END HOLE at 3.0m -refusal -rock dust on bit										
4.0											4.0
5.0											5.0
6.0											6.0

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COMPLETION DEPTH: 3.0 m
COMPLETE: 95/08/02

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-400
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+550	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 -smooth drilling												
	ASH												
	SILT (ML) -brown -frozen (Vx) with visible ice -organic												
1.0													
	SILTY SAND (SM) -brown -frozen (Nb) -grindy drilling												
2.0													
	END HOLE at 2.5m -refusal -rock dust on bit												
3.0													
4.0													
5.0													
6.0													

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	REVIEWED BY:	COMPLETE: 95/08/02
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 373-401
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+600 o/s 15m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL -frozen										
1.0											1.0
	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	802	●	▲		SM	◆	■		
2.0											2.0
3.0											3.0
	SILTY SAND (SM) -gray -frozen (Vx) with visible ice -smooth dense drilling										
4.0											4.0
	-grindy drilling below 4.0m										
5.0		<input checked="" type="checkbox"/>	803	●	▲		SM	◆	■		5.0
	END HOLE at 4.5m										
6.0											6.0

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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/08/02

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 -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL										
1.0	SANDY SILT WITH GRAVEL (ML) -brown -frozen (Vx) with visible ice										1.0
			789	●	▲		ML		■	◆	
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling -first refusal at 1.7m										2.0
			790	●	▲		SM		■	◆	
3.0	END HOLE at 2.3m -refusal -rock dust on bit										3.0
4.0											4.0
5.0											5.0
6.0											6.0

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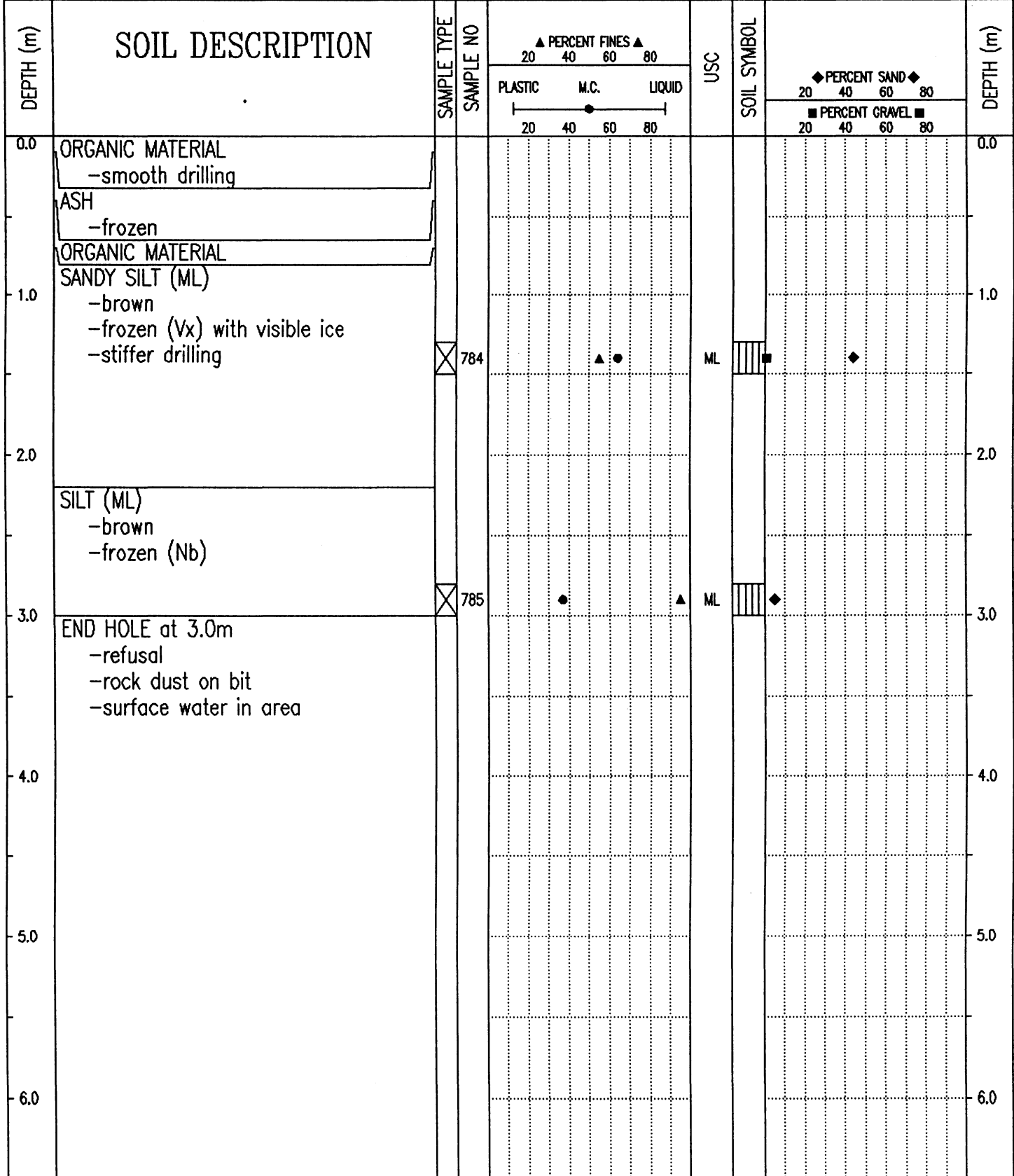
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

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 -smooth drilling									0.0	
	ASH										
	ORGANIC ICE										
1.0										1.0	
1.8	SILTY SAND (SM) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	787	●	▲		SM	◆	■	1.8	
2.0										2.0	
2.4	SANDY GRAVEL -gray -frozen (Nb) -some silt -maximum 50mm material augered up -grindy drilling -sample #788 spilled	<input checked="" type="checkbox"/>	788	●						2.4	
3.0	END HOLE at 2.4m -refusal -rock dust on bit									3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-391
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+850	ELEVATION: 0.00 (m)

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



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COMPLETION DEPTH: 3.0 m
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-390
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+850 o/s 20m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -frozen -smooth drilling										0.0
	ASH -frozen										
1.0	SILT WITH SAND (ML) -brown -frozen (Nb) -organic -stiffer drilling	<input checked="" type="checkbox"/>	782		55	75	ML		◆		1.0
2.0											2.0
3.0	SILT (ML) -brown -frozen (Nb)	<input checked="" type="checkbox"/>	783		50	70	ML		◆		3.0
4.0	END HOLE at 3.7m -refusal -rock dust on bit -surface water in area										4.0
5.0											5.0
6.0											6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-392
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1790+850 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 ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling												
	ASH -frozen												
	ORGANIC MATERIAL												
1.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	786	●	▲		GM	◆	■				
2.0	END HOLE at 1.8m -refusal -rock dust on bit												
3.0													
4.0													
5.0													
6.0													

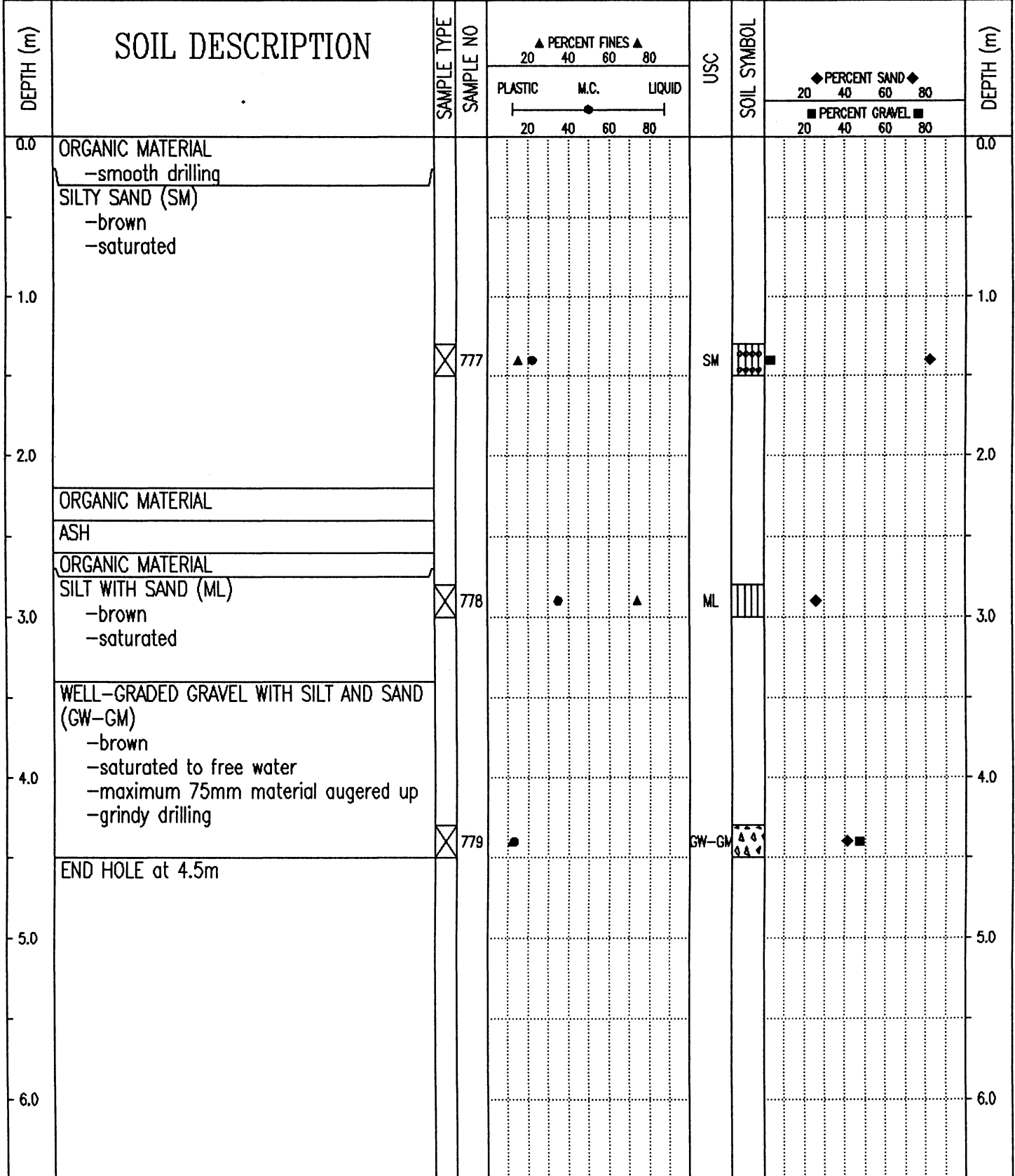
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COMPLETION DEPTH: 1.8 m
COMPLETE: 95/08/02

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-388
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+005	ELEVATION: 0.00 (m)

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



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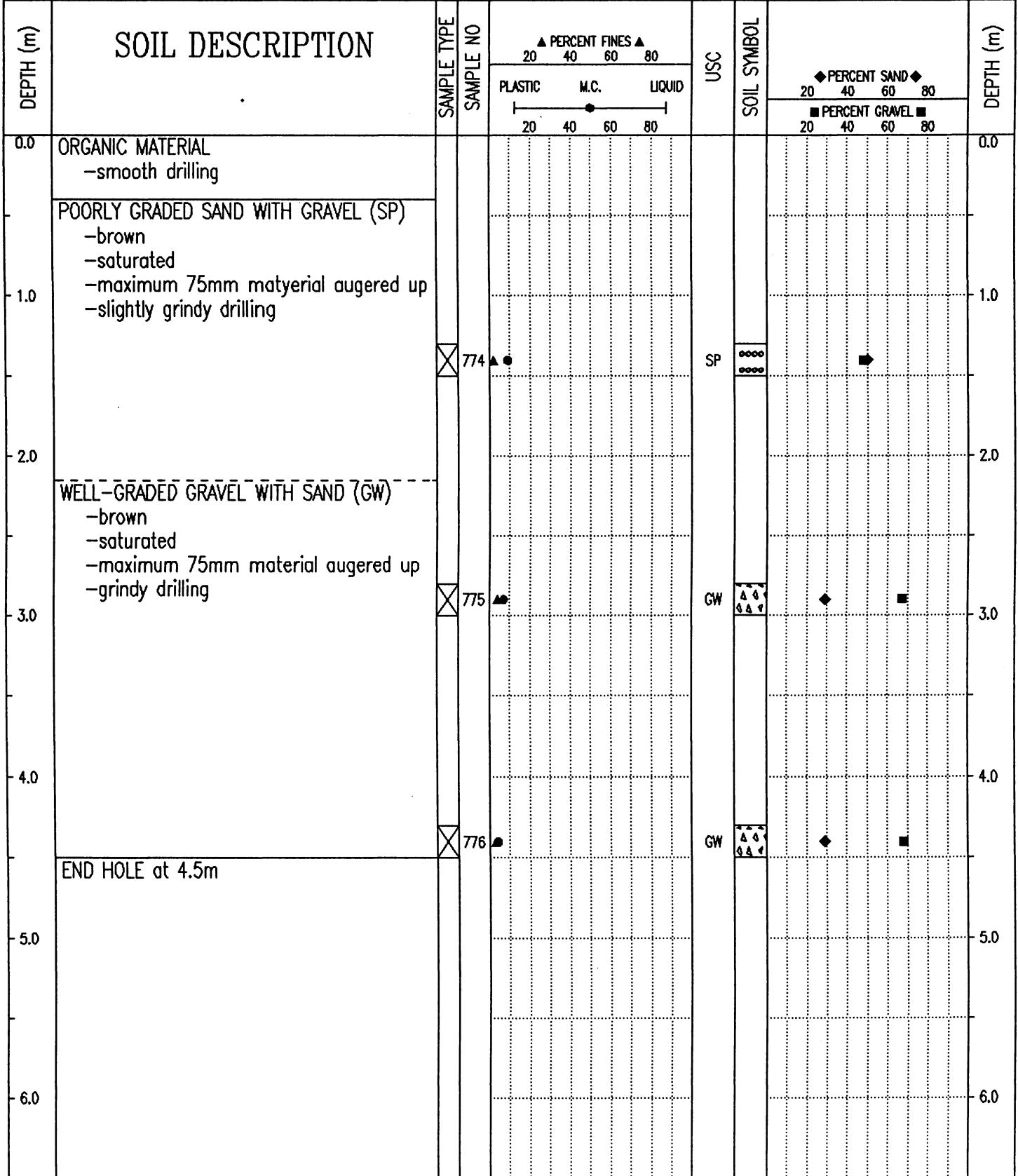
COMPLETION DEPTH: 4.5 m

COMPLETE: 95/08/02

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-387
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+005 o/s 15m Rt.	ELEVATION: 0.00 (m)

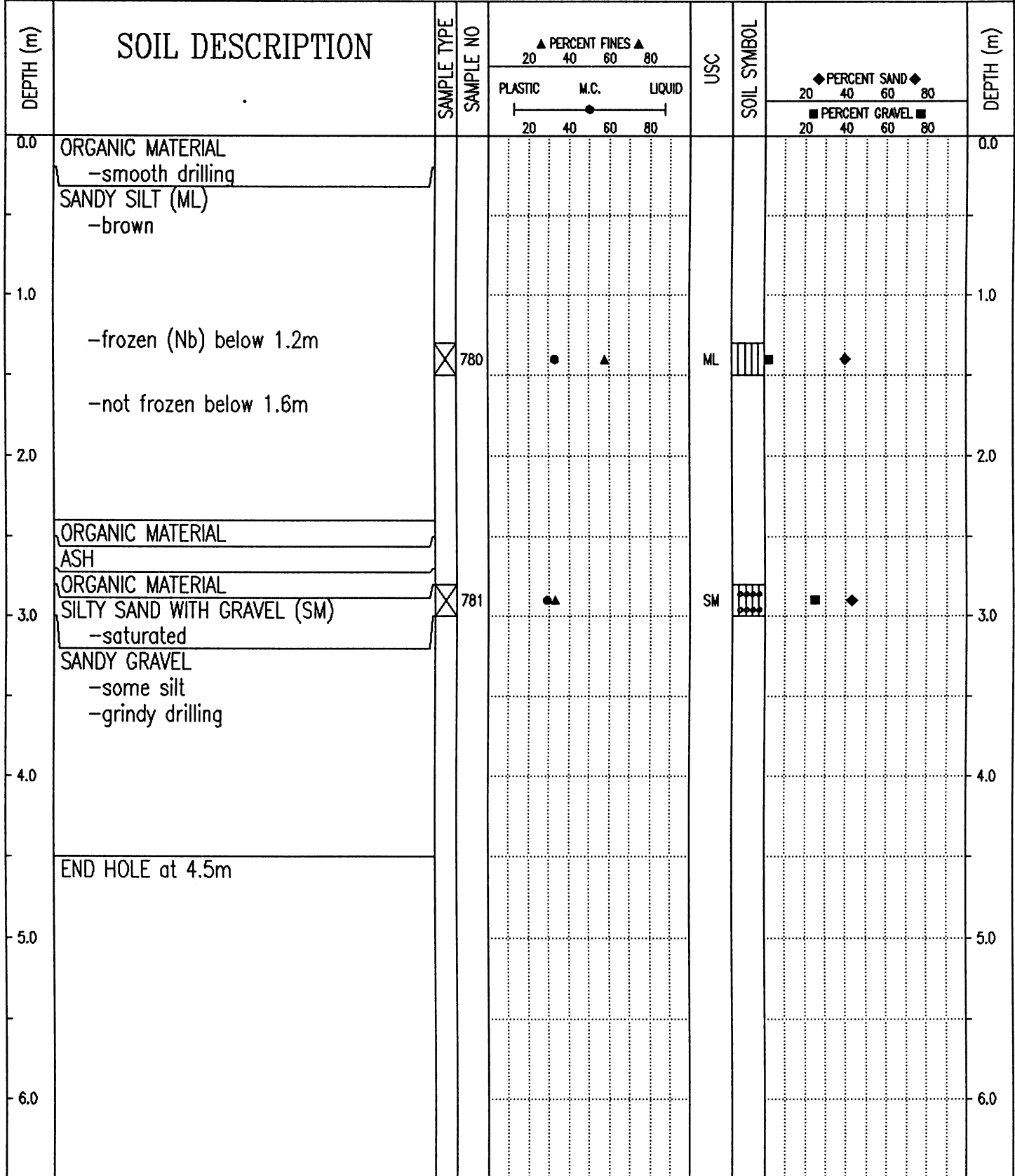
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-389
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+005 o/s 15m Lt.	ELEVATION: 0.00 (m)

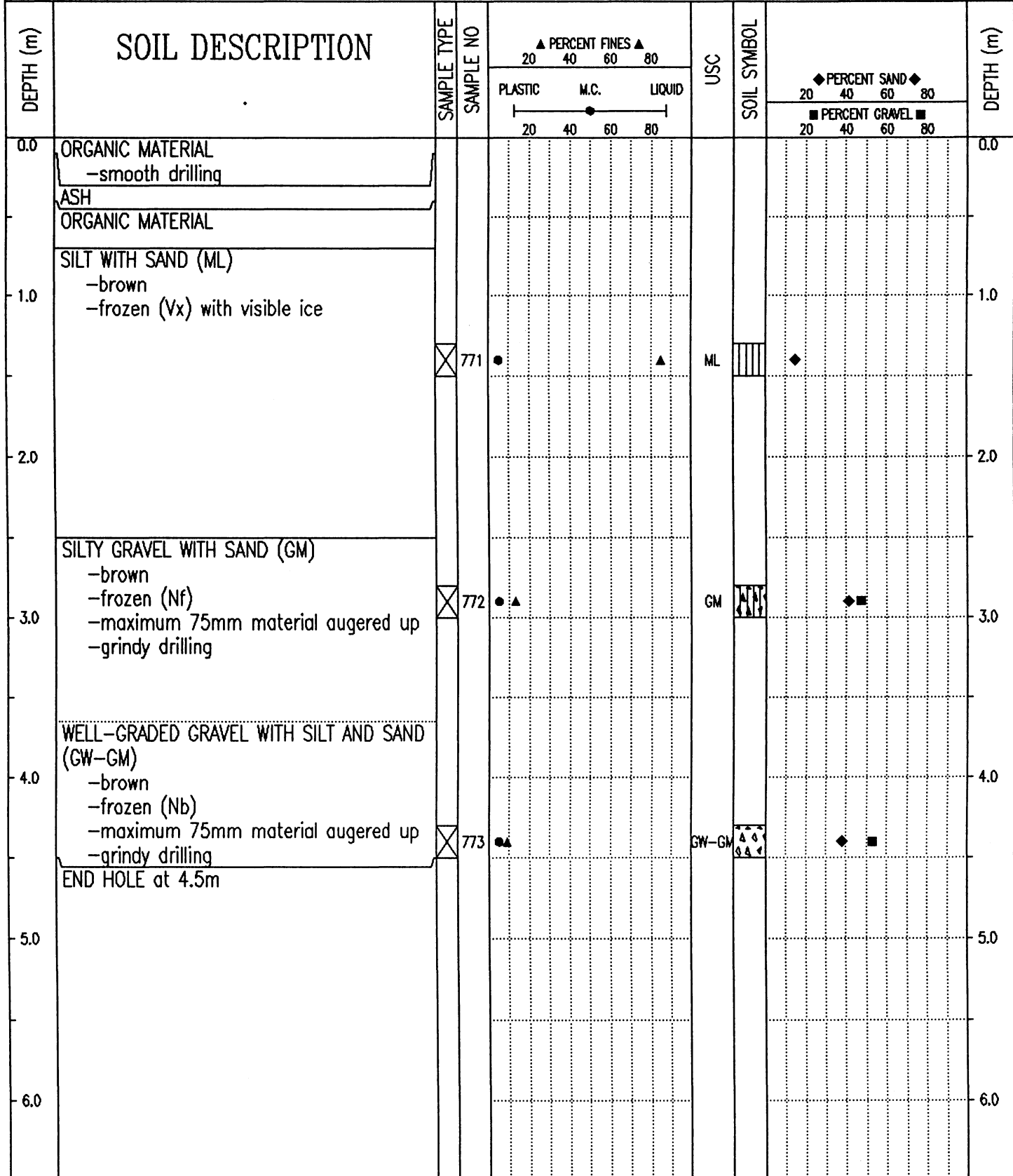
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-385
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+160	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling									0.0	
	ASH										
	ORGANIC MATERIAL										
1.0	SANDY SILT (ML) -brown -frozen (Vx) with visible ice -stiffer drilling									1.0	
		<input checked="" type="checkbox"/>	769	●	▲		ML	■	◆		
2.0	SANDY GRAVEL -brown -frozen (Nb) -some silt -maximum 50mm material augered up									2.0	
3.0	-grindy drilling -sample #770 spilled									3.0	
	END HOLE at 3.0m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	770	●							
4.0										4.0	
5.0										5.0	
6.0										6.0	

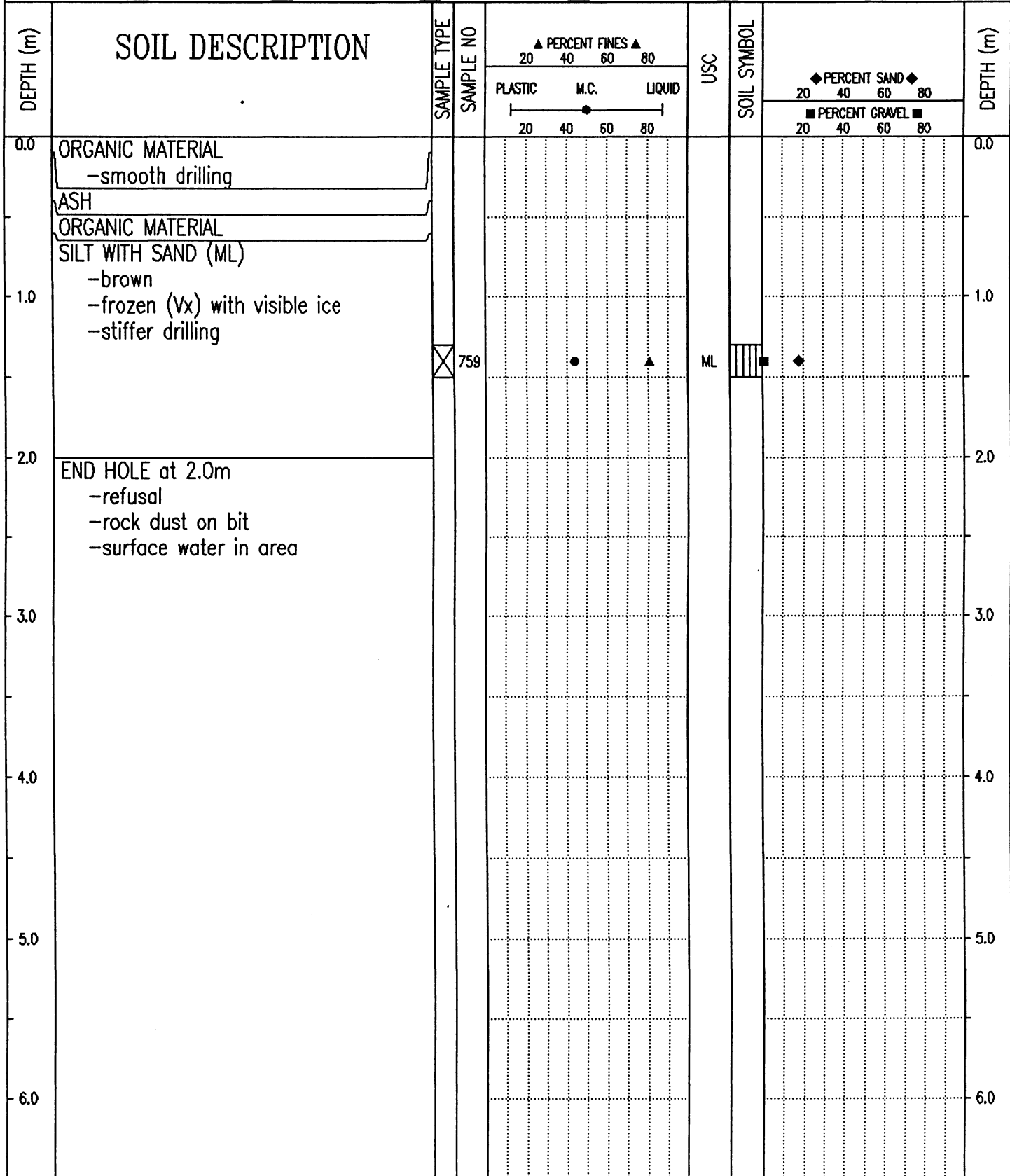
Government of Yukon Transportation Engineering	LOGGED BY: CC	COMPLETION DEPTH: 3.0 m
	REVIEWED BY:	COMPLETE: 95/08/02
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

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 -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL										
1.0	SILT (ML) -brown -frozen (Vx) with visible ice -stiffer drilling										1.0
		<input checked="" type="checkbox"/>	767				ML	<input checked="" type="checkbox"/>			
2.0											2.0
3.0	SANDY GRAVEL -brown -frozen (Nf) -trace of silt -maximum 50mm material augered up -grindy drilling -sample #768 spilled										3.0
		<input checked="" type="checkbox"/>	768								
4.0	END HOLE at 3.5m -refusal -rock dust on bit										4.0
5.0											5.0
6.0											6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-382
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+350	ELEVATION: 0.00 (m)

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



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Fig. No:

COMPLETION DEPTH: 2.0 m
COMPLETE: 95/08/02

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-383
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+350 o/s 15m Lt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				20	40	60			80	20		
0.0	ORGANIC MATERIAL -smooth drilling										0.0	
	ASH											
	SILT WITH SAND (ML) -brown -frozen (Vx) with visible ice -organics -stiffer drilling											
1.0											1.0	
			760				ML					
2.0	END HOLE at 1.5m -refusal -rock dust on bit -surface water in area										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 372-381
ENGINEERING-CAPITAL		SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER		LOCATION: 1791+350 o/s 20m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			PERCENT GRAVEL ■			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	ORGANIC MATERIAL -smooth drilling													0.0	
	ASH														
	ORGANIC MATERIAL														
1.0	SILT WITH SAND (ML) -frozen (Vx) with visible ice -stiffer drilling													1.0	
			758				ML								
2.0	END HOLE at 2.0m -refusal -rock dust on bit -surface water in area													2.0	
3.0														3.0	
4.0														4.0	
5.0														5.0	
6.0														6.0	

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	REVIEWED BY:	COMPLETE: 95/08/02
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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			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH											
	SILTY SAND -brown -frozen											
1.0												1.0
	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	755	●	▲		GM		■			
2.0												2.0
	SILTY SAND (SM) -brown -frozen (Nb) -smooth dense drilling	<input checked="" type="checkbox"/>	756	●	▲		SM		■	◆		
3.0												3.0
	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	757	●	▲		SM		■	◆		
4.0												4.0
	END HOLE at 3.8m -refusal -rock dust on bit											
5.0												5.0
6.0												6.0

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-379
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+450	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL												
1.0	SILTY SAND -brown -frozen											1.0	
2.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	753	●	▲		GM		◆	■		2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	754	●	▲		SM		■	◆		3.0	
3.0	END HOLE at 2.7m -refusal -rock dust on bit											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-378
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+525	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	
0.0	ORGANIC MATERIAL -smooth drilling ASH ORGANIC MATERIAL -frozen											0.0	
1.0												1.0	
2.0	SILTY SANDY GRAVEL -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	750	●								2.0	
3.0	SILTY SAND TO SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -hard grindy drilling	<input checked="" type="checkbox"/>	751	● ▲			SM	▨	■	◆		3.0	
4.0	END HOLE at 3.8m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	752	● ▲			SM	▨	■	◆		4.0	
5.0												5.0	
6.0												6.0	

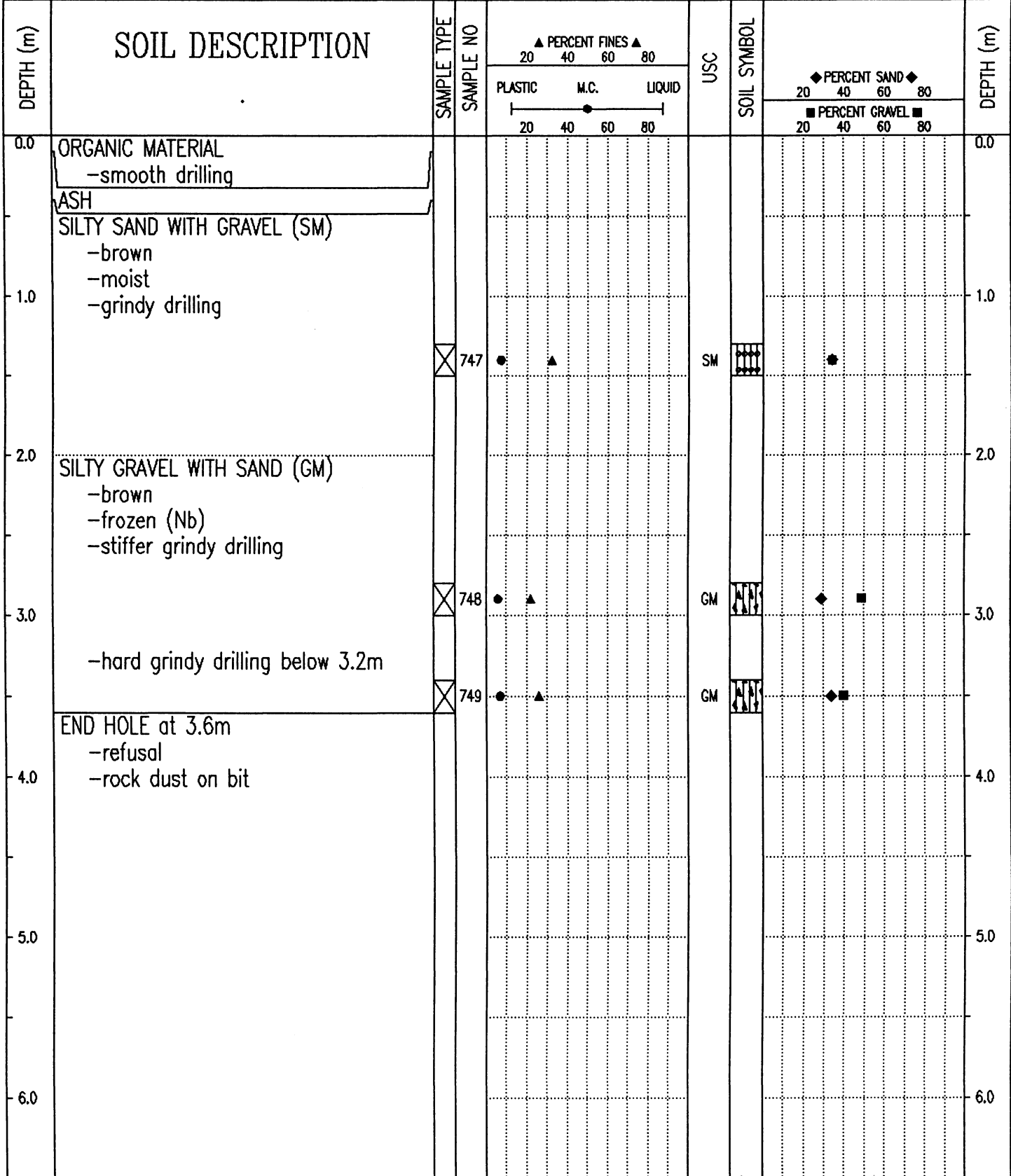
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COMPLETION DEPTH: 3.8 m
COMPLETE: 95/08/01

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



96/01/02 12:47PM

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-376
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+725	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 -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL -frozen												
1.0	SILTY SAND -brown -frozen											1.0	
	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -grindy drilling -first refusal at 1.9m	<input checked="" type="checkbox"/>	744	●	▲		GM		◆	■			
	-frozen (Nb) no visible ice below 2.8m	<input checked="" type="checkbox"/>	745	●	▲		GM		◆	■			
3.0	SANDY SILT (ML) -frozen (Nb) -easier grindy drilling											3.0	
		<input checked="" type="checkbox"/>	746	●	▲		ML		◆	■			
	END HOLE at 4.5m												
4.5												4.5	
5.0												5.0	
6.0												6.0	

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COMPLETION DEPTH: 4.5 m
COMPLETE: 95/08/01

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 ■	PERCENT SAND ◆			
				20	40	60				20	40	60	80
0.0	ORGANIC MATERIAL -smooth drilling												0.0
	ASH												
1.0	ORGANIC MATERIAL -frozen -stiffer drilling												1.0
2.0	SILT WITH SAND (ML) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	739	●	▲	▲	ML	◆	◆				2.0
3.0	SANDY SILT (ML) -brown -frozen (Nb)	<input checked="" type="checkbox"/>	740	●	▲	▲	ML		◆				3.0
4.0	SILTY SAND WITH GRAVEL (SM) -grindy drilling	<input checked="" type="checkbox"/>	741	●	▲	▲	SM	■	◆				4.0
5.0	END HOLE at 4.2m -refusal -rock dust on bit												5.0
6.0													6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-373
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+825 o/s 20m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
1.0	ORGANIC MATERIAL -frozen -stiffer drilling											1.0	
2.0	SILTY SAND (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	738	●	▲		SM	▨	◆	■		2.0	
3.0	SANDY SILT (ML) -brown -frozen (Nb) -hard smooth drilling	<input checked="" type="checkbox"/>	737	●	▲		ML	▨			◆	3.0	
4.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	738	●	▲		SM	▨	◆	■	◆	4.0	
5.0	END HOLE at 4.2m -refusal -rock dust on bit											5.0	
6.0												6.0	

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COMPLETION DEPTH: 4.2 m
COMPLETE: 95/08/01

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	USC	SOIL SYMBOL	PERCENT SAND ◆ 20 40 60 80 PERCENT GRAVEL ■ 20 40 60 80	DEPTH (m)
0.0	ORGANIC MATERIAL -smooth drilling							0.0
	ASH							
	ORGANIC MATERIAL -frozen -stiffer drilling							
1.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	742	● ▲		GM	◆ ■	1.0
2.0	SANDY SILT (ML) -brown -frozen (Nb)							2.0
3.0	-grindy drilling below 3.1m							3.0
	END HOLE at 3.3m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	743	● ▲		ML	◆ ■	3.0
4.0								4.0
5.0								5.0
6.0								6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-372
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1791+900	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	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	SILTY SAND -moist -trace of gravel												
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	734	●	▲		SM	◆◆◆◆	◆			1.0	
2.0	WELL-GRADED SAND WITH SILT AND GRAVEL (SW-SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	735	●			SW-SM	◆◆◆◆	◆	■	◆	2.0	
3.0	END HOLE at 2.7m -refusal -rock dust on bit											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 95/08/01
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-371
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+000	ELEVATION: 0.00 (m)

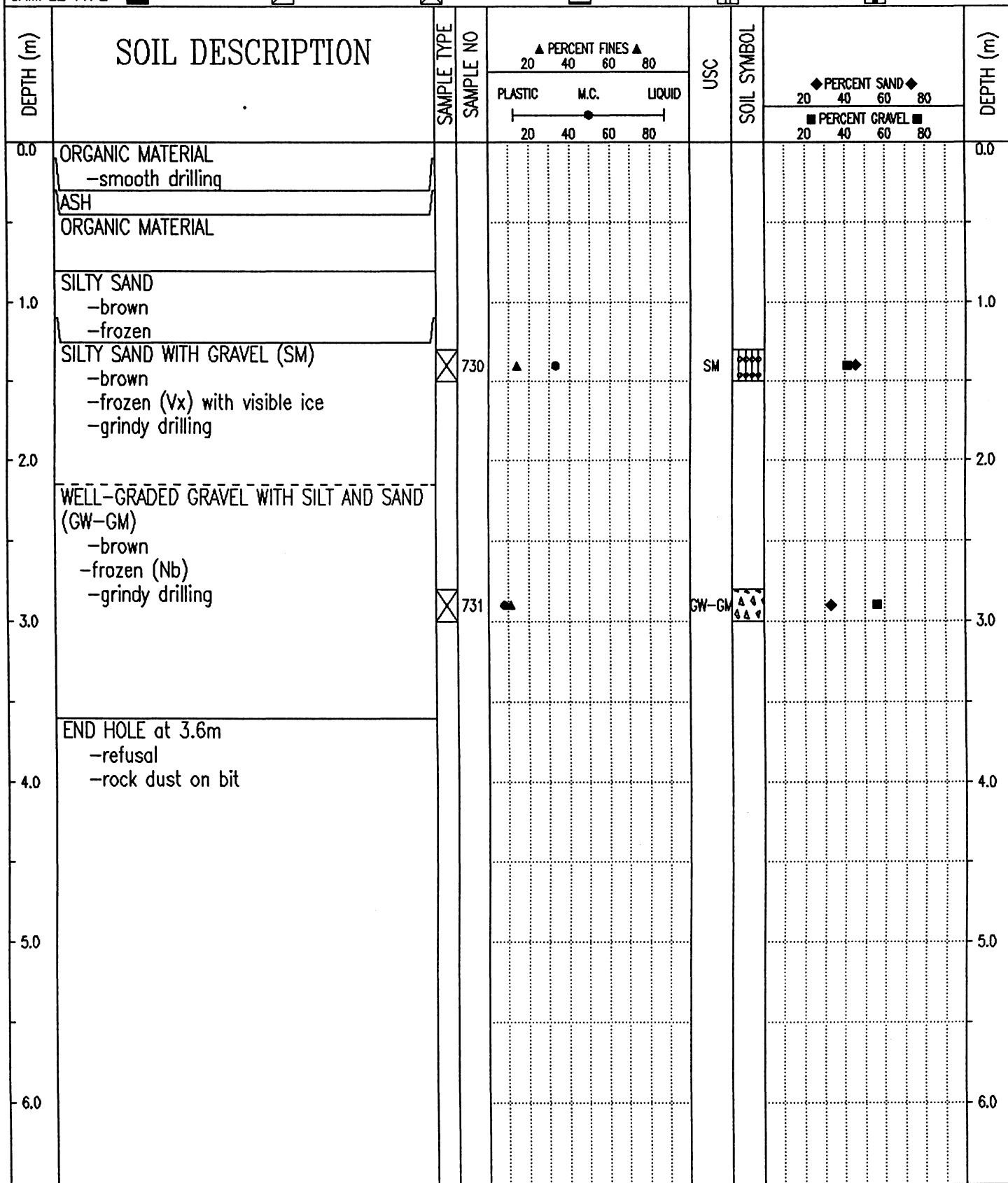
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

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	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL												
1.0	SILTY SANDY GRAVEL -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	732	●	▲		ML	▨	◆	■		1.0	
2.0	SANDY SILT (ML) -brown -frozen (Nb) -smooth drilling	<input checked="" type="checkbox"/>	733	●	▲		SM	▨	◆	■		2.0	
	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling												
3.0	END HOLE at 2.1m -refusal -rock dust on bit											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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REVIEWED BY:	COMPLETE: 95/08/01
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-370
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+100	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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Fig. No:

COMPLETION DEPTH: 3.6 m
COMPLETE: 95/08/01

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-369
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+200	ELEVATION: 0.00 (m)

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

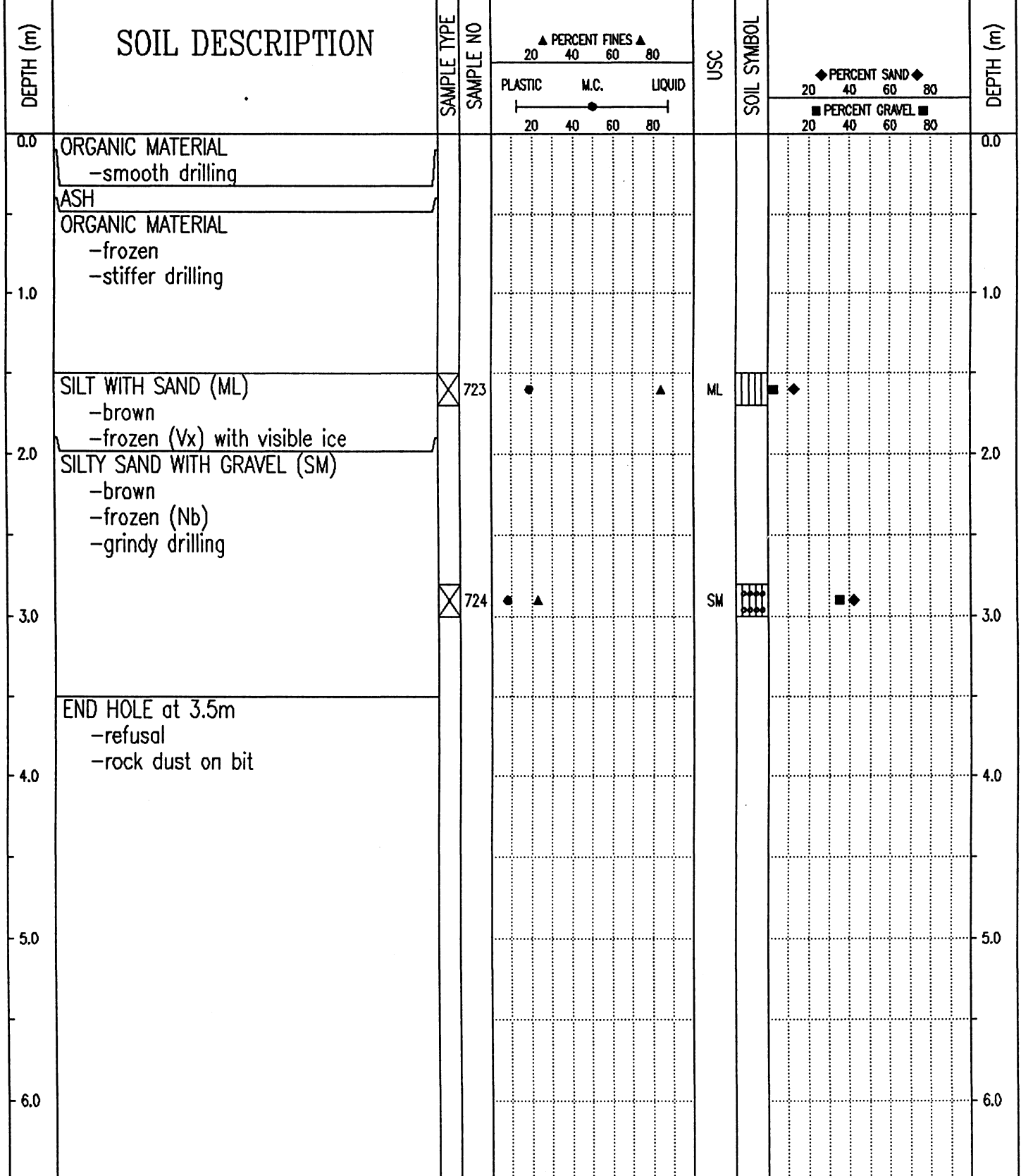
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL -frozen												
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	727	●	▲		SM	◆◆◆◆	■	◆		1.0	
2.0												2.0	
3.0	-sample #728 spilled	<input checked="" type="checkbox"/>	728	●								3.0	
4.0	END HOLE at 3.9m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	729	●	▲		SM	◆◆◆◆	■	◆		4.0	
5.0												5.0	
6.0												6.0	

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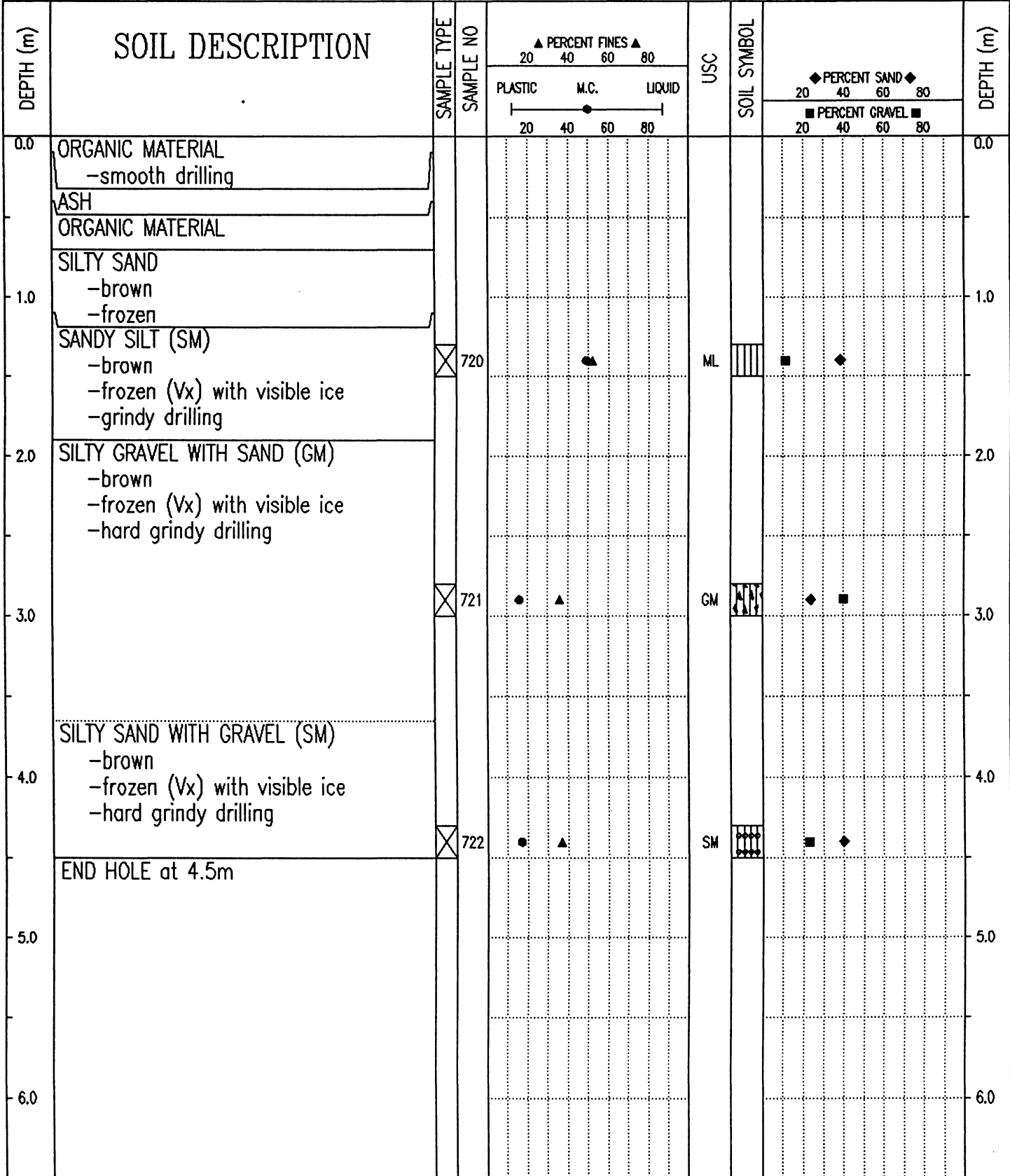
COMPLETION DEPTH: 3.9 m
COMPLETE: 95/08/01
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-367
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+275	ELEVATION: 0.00 (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: 95/08/01
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

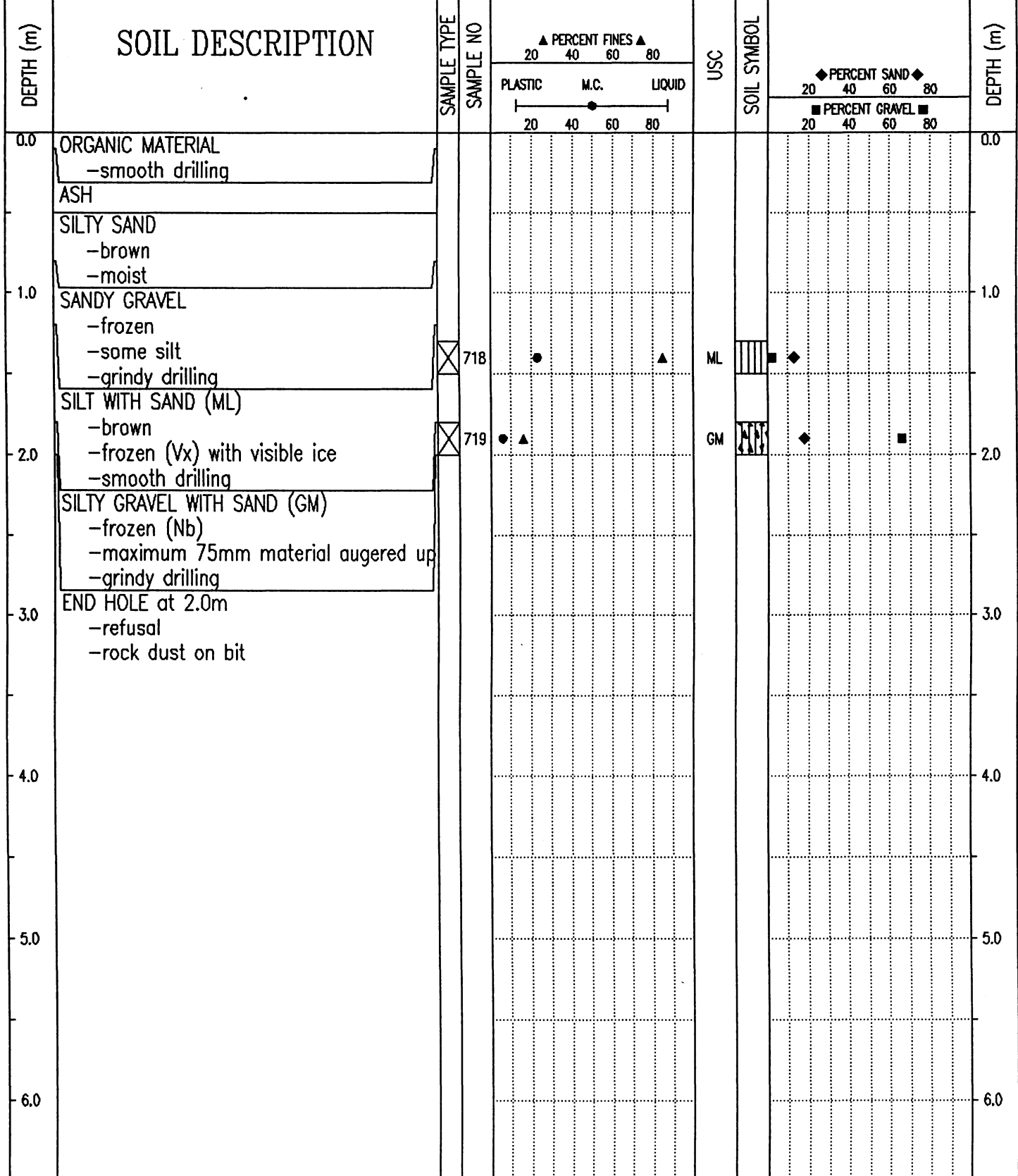


SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 372-368
ENGINEERING-CAPITAL		SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER		LOCATION: 1792+275 o/s 20m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				▲	▲	▲			
				◆	◆	◆			
				■	■	■			
0.0	ORGANIC MATERIAL -smooth drilling								0.0
	ASH								
	ORGANIC MATERIAL								
1.0	WELL-GRADED GRAVEL WITH SAND (GW) -gray -frozen (Nb) -grindy drilling	<input checked="" type="checkbox"/>	725				GW	▲▲▲ ▲▲▲	1.0
2.0									2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb)	<input checked="" type="checkbox"/>	726	●	▲		SM	■◆	3.0
4.0	END HOLE at 3.4m -refusal -rock dust on bit								4.0
5.0									5.0
6.0									6.0

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	REVIEWED BY:	COMPLETE: 95/08/01
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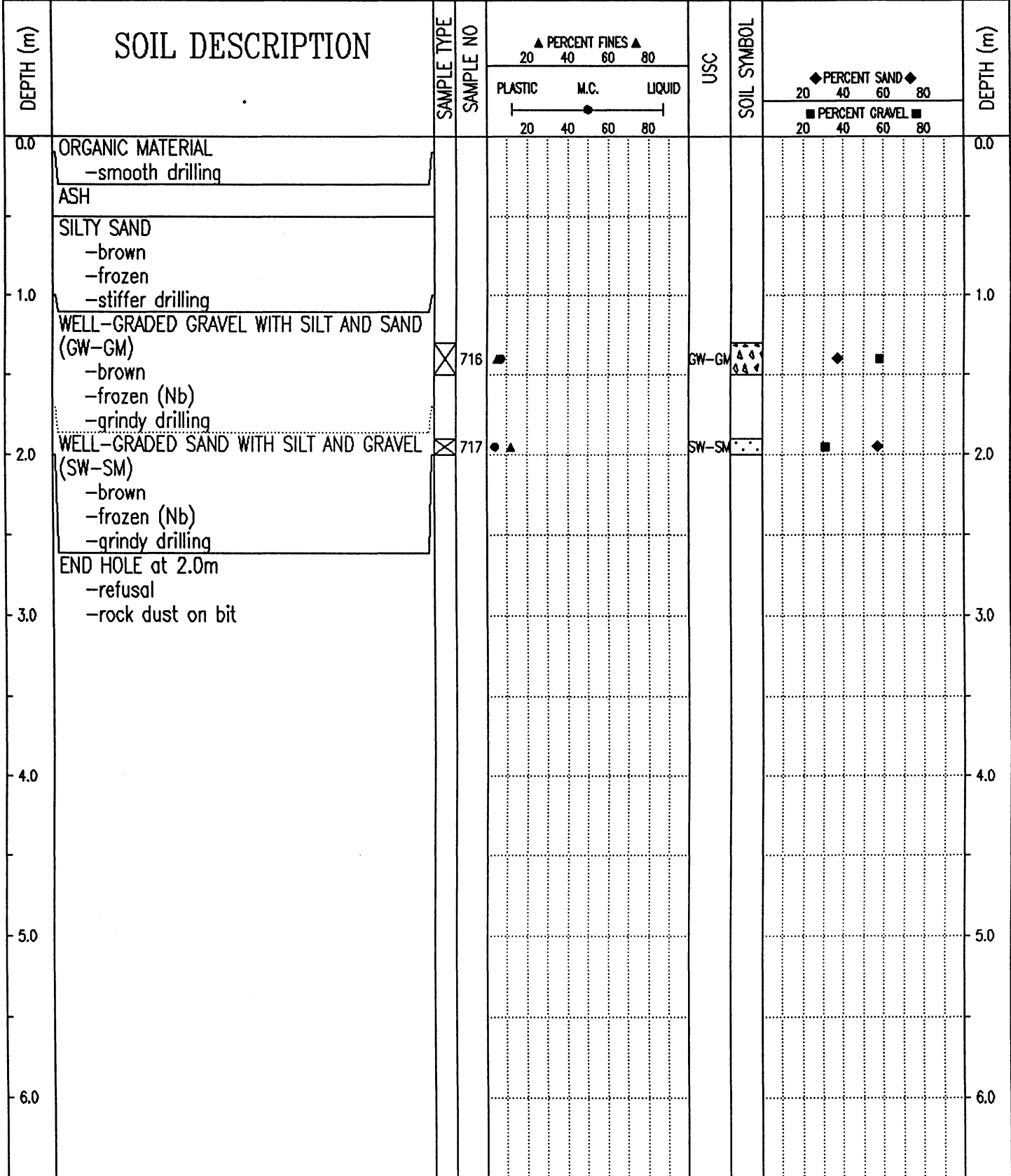
SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-365
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+375	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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	REVIEWED BY:	COMPLETE: 95/08/01
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-364
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+500	ELEVATION: 0.00 (m)

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



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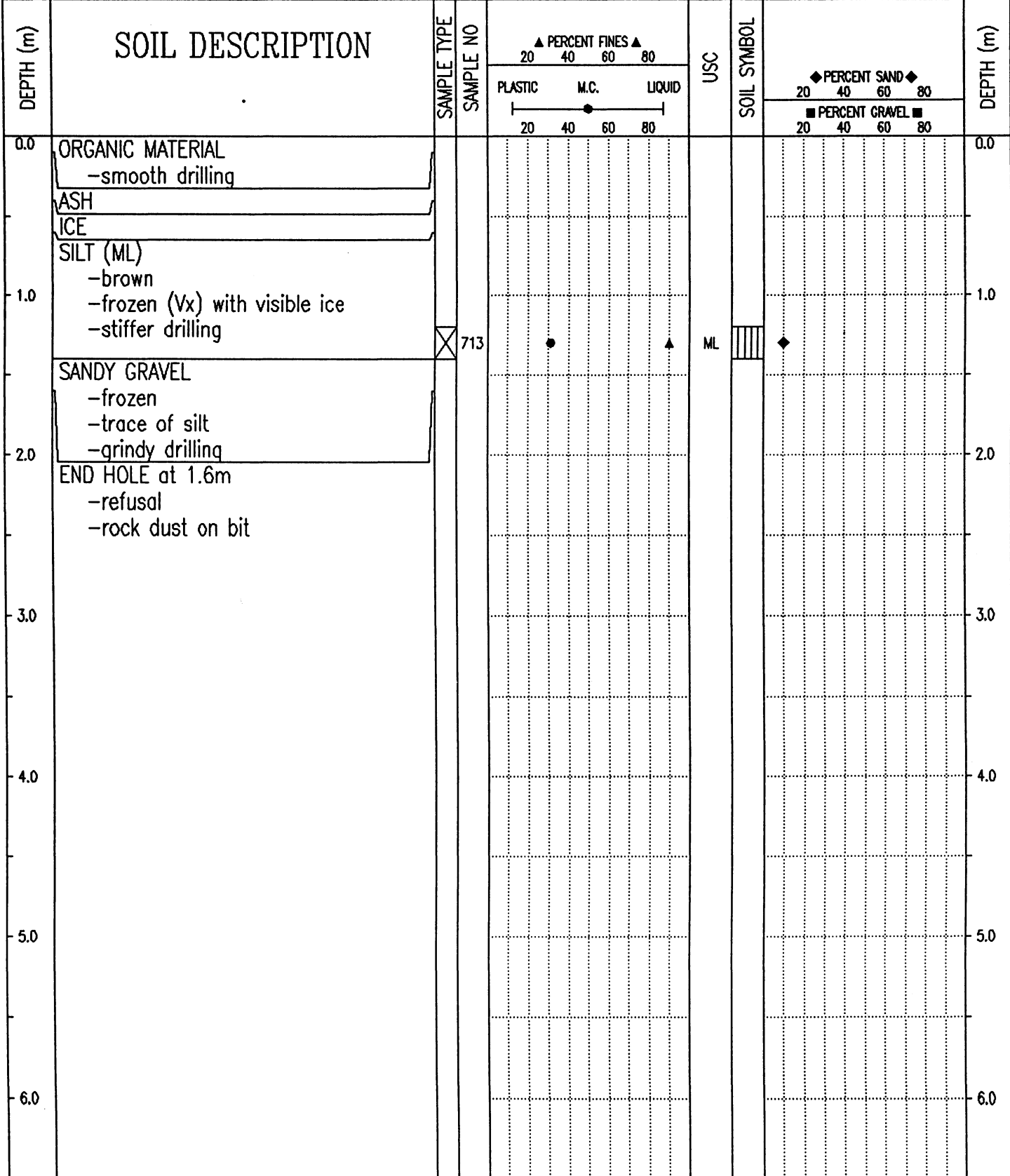
LOGGED BY: CC	COMPLETION DEPTH: 2.0 m
REVIEWED BY:	COMPLETE: 95/08/01
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				20	40	60			80	20	40	
0.0	ORGANIC MATERIAL -smooth drilling ASH											0.0
1.0	SILTY SAND -brown -frozen -stiffer drilling											1.0
2.0	SANDY GRAVEL -gray -frozen -grindy drilling											2.0
2.0	END HOLE at 1.7m -refusal -rock dust on bit -surface water in area											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-361
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+600 o/s 20m Rt.	ELEVATION: 0.00 (m)

SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE
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	REVIEWED BY:	COMPLETE: 95/08/01
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-363
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+600 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 ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -smooth drilling ASH											0.0
1.0	SILTY SAND -brown -frozen -stiffer drilling	<input checked="" type="checkbox"/>	714	●	▲		GM	◆	■			1.0
2.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Nb) -grindy drilling -sample #715 spilled END HOLE at 2.0m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	715	●								2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 95/08/01
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-360
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+700	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH											
	ORGANIC MATERIAL -frozen -stiffer drilling											
1.0	SILTY SAND -frozen with visible ice											1.0
	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -gray -frozen (Nb)	<input checked="" type="checkbox"/>	712				GW-GM	▲ ▲ ▲ ▲				
2.0	-maximum 50mm material augered up -grindy drilling											2.0
	END HOLE at 1.6m -refusal -rock dust on bit											
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 95/08/01
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-359
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+750	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 -smooth drilling										0.0	
	ASH											
	SILTY SAND -brown -moist											
1.0	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -brown -frozen (Nb) -maximum 75mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	711				GW-GM	▲▲ ▲▲	◆	■	1.0	
2.0	END HOLE at 1.8m -refusal -rock dust on bit										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-357
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+850	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
1.0	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -frozen (Vx) with visible ice -maximum 75mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	708	▲			GP-GM	◆	■		1.0
2.0	END HOLE at 1.7m -refusal -rock dust on bit -surface water in area -on old trail										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

Government of Yukon Transportation Engineering	LOGGED BY: CC	COMPLETION DEPTH: 1.7 m
	REVIEWED BY:	COMPLETE: 95/07/29
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-356
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+850 o/s 25m Lt.	ELEVATION: 0.00 (m)

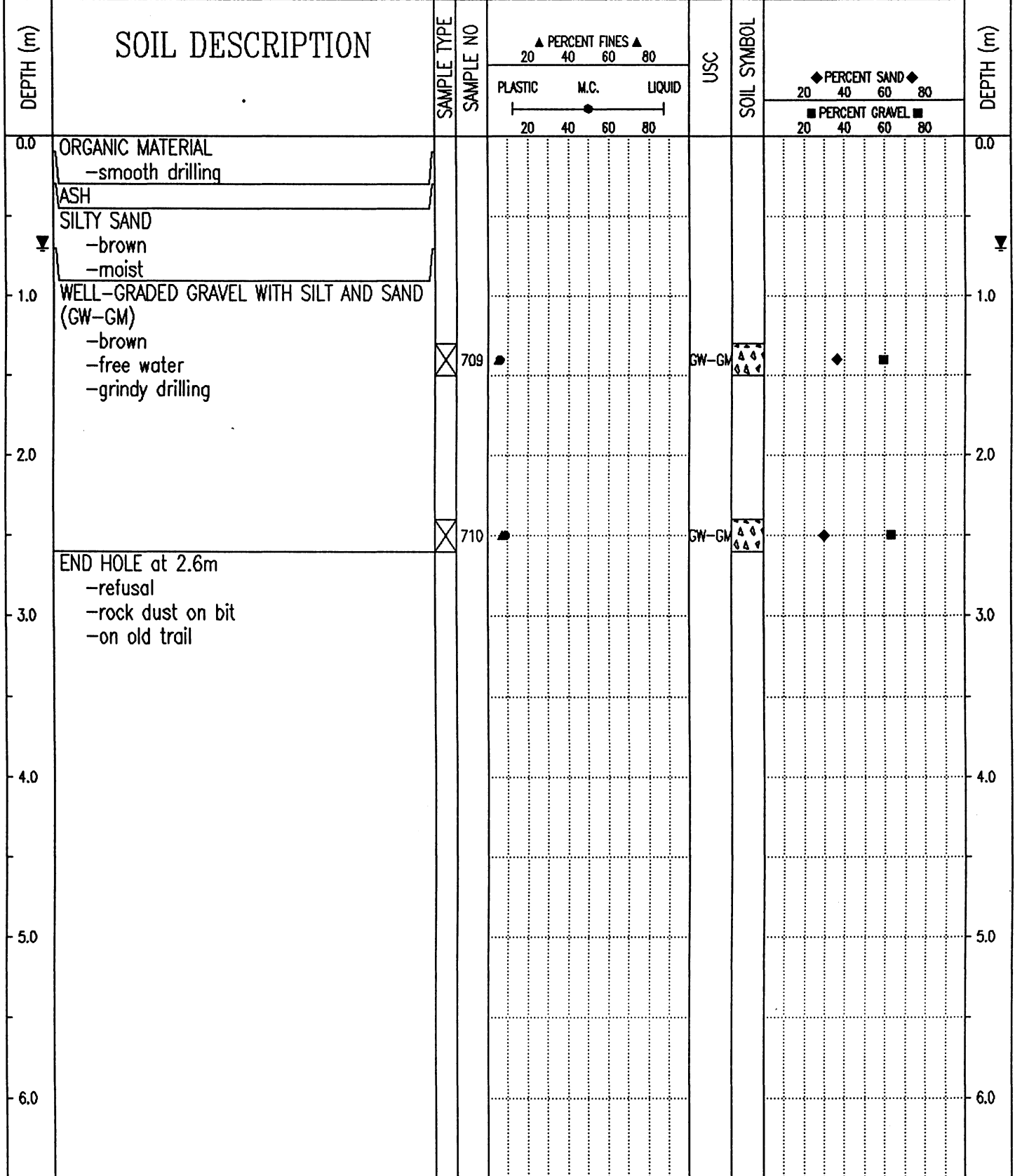
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE
-------------	--	--	---	-------------------------------	-------------------------------	-------------------------------

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -smooth drilling -frozen below 0.4m -stiffer drilling below 0.4m										0.0	
1.0	SILT WITH SAND (ML) -brown -frozen (Vx) with visible ice	<input checked="" type="checkbox"/>	706				ML		◆		1.0	
2.0	SILTY SANDY GRAVEL -brown -frozen (Vx) with visible ice -grindy drilling -sample #707 spilled	<input checked="" type="checkbox"/>	707								2.0	
3.0	END HOLE at 2.5m -refusal -rock dust on bit -surface water in area -on old trail										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-358
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+850 o/s 25m Rt.	ELEVATION: 0.00 (m)

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



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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-355
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1792+975 o/s 25m Lt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
0.5	ICE											1.0	
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	704	25	65	85	SM	◆◆◆◆	45	55	◆◆	1.0	
2.0												2.0	
3.0		<input checked="" type="checkbox"/>	705	25	65	85	SM	◆◆◆◆	45	55	◆◆	3.0	
3.1	END HOLE at 3.1m -refusal -rock dust on bit -surface water in area											4.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

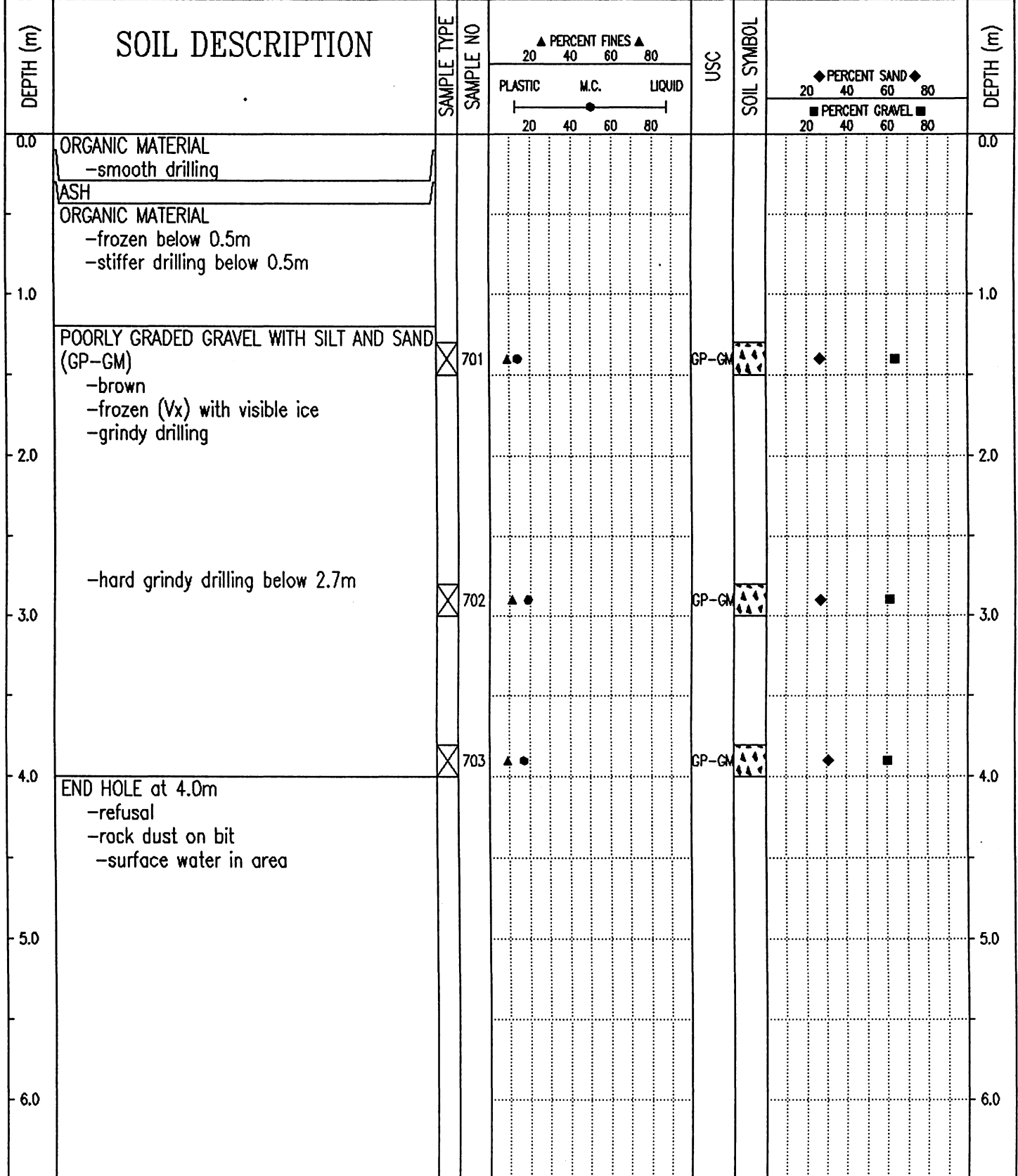
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COMPLETION DEPTH: 3.1 m
COMPLETE: 95/07/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-354
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+000	ELEVATION: 0.00 (m)

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



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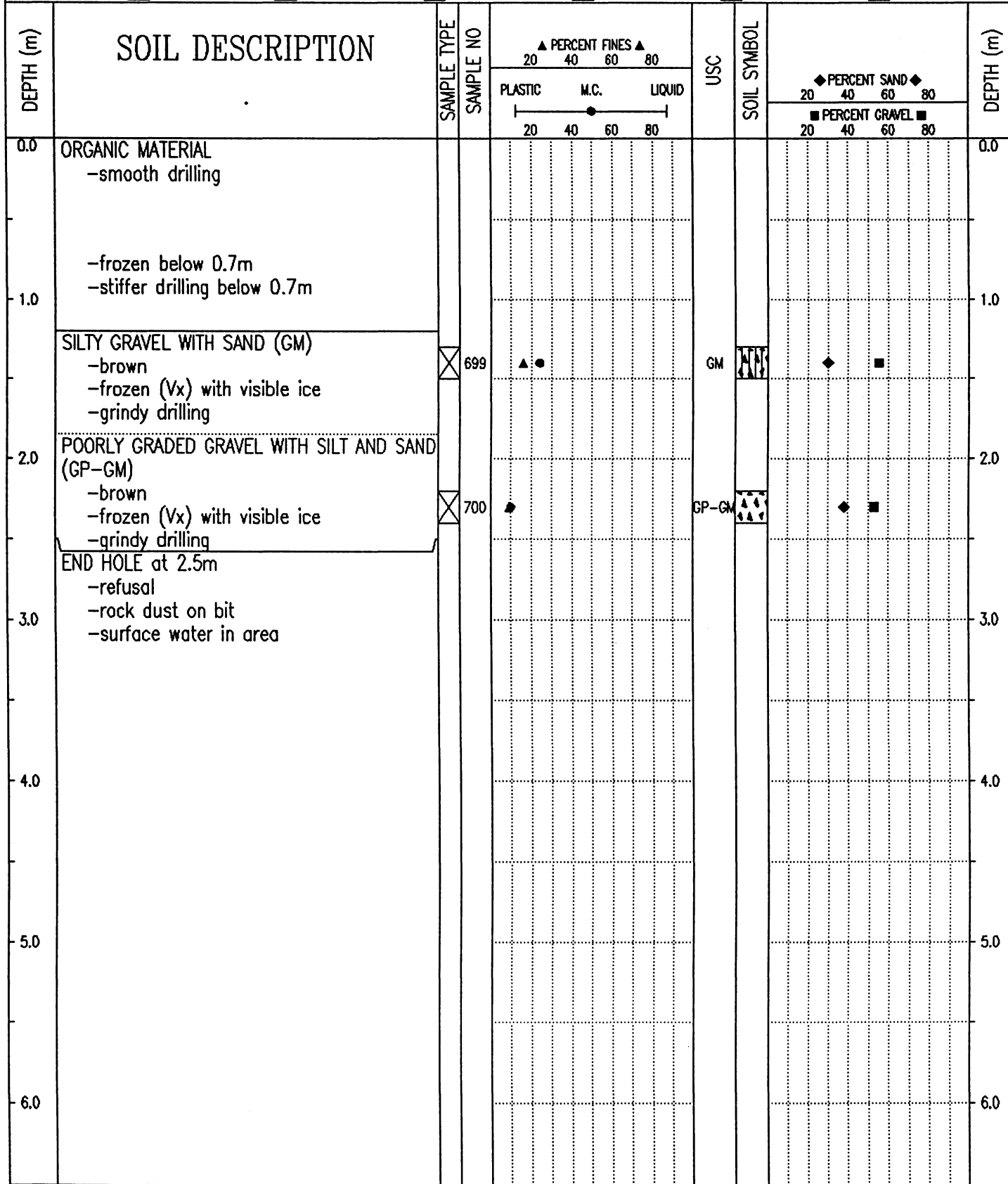
COMPLETION DEPTH: 4.0 m
COMPLETE: 95/07/29

SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 372-353

ENGINEERING-CAPITAL SEGMENT 12B Project No: 092-202101-0328

Drill: B40L 150mm SOLID STEM AUGER LOCATION: 1793+000 o/s 25m Rt. ELEVATION: 0.00 (m)

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



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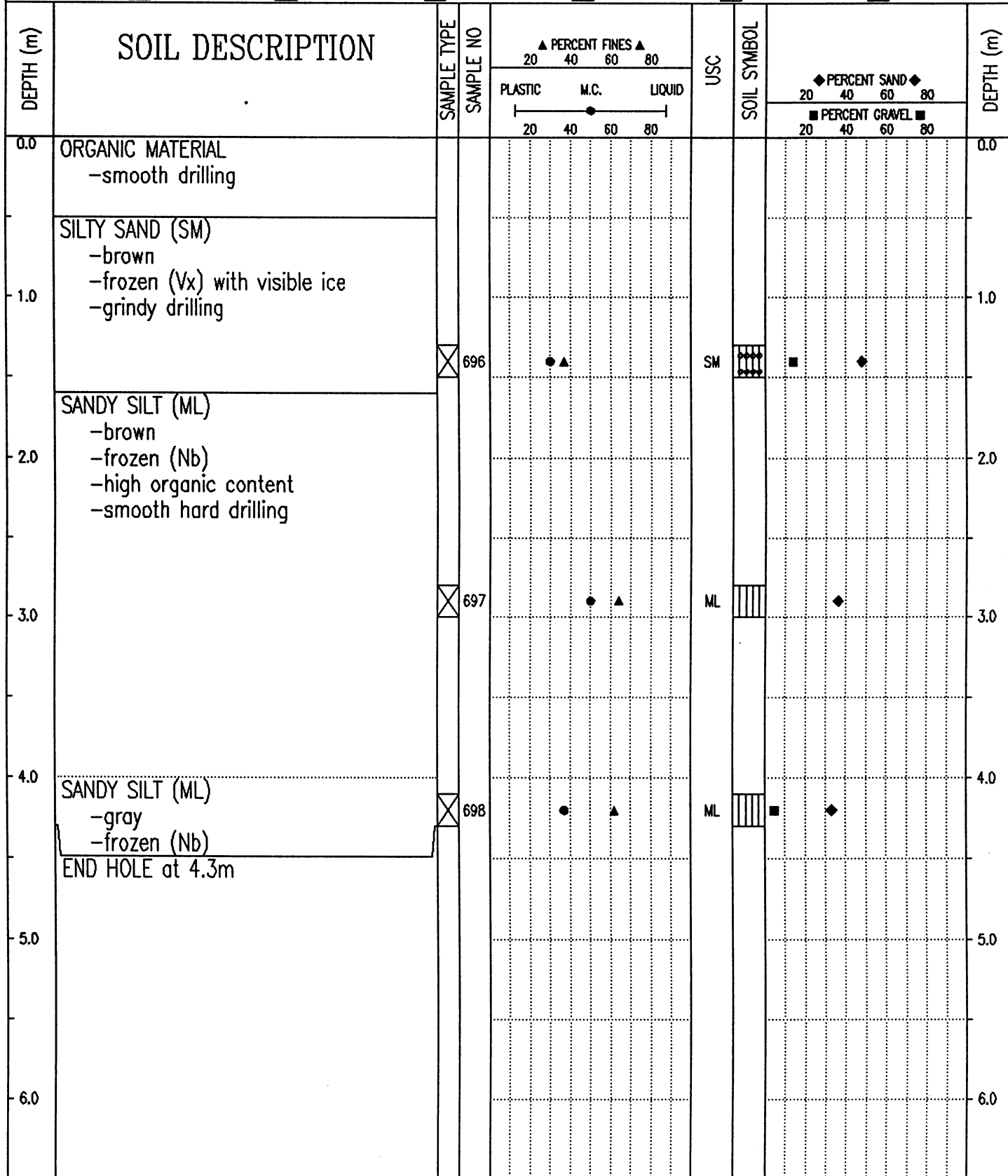
LOGGED BY: CC COMPLETION DEPTH: 2.5 m
 REVIEWED BY: COMPLETE: 95/07/29
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SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 372-352

ENGINEERING-CAPITAL SEGMENT 12B Project No: 092-202101-0328

Drill: B40L 150mm SOLID STEM AUGER LOCATION: 1793+100 ELEVATION: 0.00 (m)

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



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COMPLETION DEPTH: 4.3 m
COMPLETE: 95/07/29

SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 502-299				
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328				
D-4 CAT B-40		LOCATION: 1793+125 25M LT		ELEVATION: 0.00 (m)				
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE	
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲		USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.			
0.0	ORGANIC & ASH -frozen							0.0
1.0	SILTY SAND -frozen (Nf) -smooth drilling	<input checked="" type="checkbox"/>	50					1.0
2.0	SILTY GRAVEL WITH SAND (GM) -frozen -grindy drilling	<input checked="" type="checkbox"/>	51	●▲		GM	◆■	2.0
3.0								3.0
4.0	SAND -frozen -smooth steady drilling	<input checked="" type="checkbox"/>	52					4.0
5.0	SILTY SAND WITH GRAVEL (SM) -frozen -very slow grindy drilling							5.0
6.0		<input checked="" type="checkbox"/>	53	●▲		SM	◆■	6.0
7.0	END HOLE at 6.5m -refusal							7.0
8.0								8.0
9.0								9.0
10.0								10.0

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COMPLETION DEPTH: 6.5 m
COMPLETE: 98/11/30

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 372-351
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+165 o/s 25m Lt.	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH											
	ORGANIC MATERIAL -frozen below 0.6m -stiffer drilling below 0.6m											
1.0												1.0
	SILTY SAND (SM) -brown -frozen (Nb)	<input checked="" type="checkbox"/>	694	●	▲		SM	◆				
2.0												2.0
	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	695	●	▲		SM	◆	■			
3.0												3.0
	END HOLE at 3.0m -refusal -rock dust on bit											
4.0												4.0
5.0												5.0
6.0												6.0

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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	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH											
	ORGANIC MATERIAL -frozen below 0.4m -stiffer drilling below 0.4m											
1.0	SILTY SAND (SM) -brown -frozen (Nf)	<input checked="" type="checkbox"/>	692	●	▲		SM			◆		1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	693	●▲			SM			◆■		2.0
3.0	END HOLE at 2.7m -refusal -rock dust on bit											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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 ■	PERCENT SAND ◆	PERCENT GRAVEL ■		
				20	40	60				20	40	60	80
0.0	ORGANIC MATERIAL -smooth drilling												0.0
	ASH												
	ORGANIC MATERIAL												
	SILTY SAND -brown -frozen												
1.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -grindy drilling	X	690	●	▲		GM	[Symbol]	◆	■			1.0
2.0													2.0
3.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	X	691	●	▲		SM	[Symbol]	■	◆			3.0
4.0	END HOLE at 3.7m -refusal -rock dust on bit												4.0
5.0													5.0
6.0													6.0

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Fig. No:

COMPLETION DEPTH: 3.7 m
COMPLETE: 95/07/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-347
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+240	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 -smooth drilling										0.0	
	ASH											
	ORGANIC MATERIAL											
1.0	SILTY SAND -brown -frozen										1.0	
2.0	END HOLE at 1.2m -refusal -rock dust on bit										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 1.2 m

COMPLETE: 95/07/28

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-346
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+240 o/s 25m 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 -smooth drilling										0.0	
	ASH											
	ORGANIC MATERIAL											
1.0	SILTY SAND -brown -frozen										1.0	
	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -grindy drilling		690	▲			GM	◆	■			
2.0	END HOLE at 1.8m -refusal twice -rock dust on bit										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 1.8 m

COMPLETE: 95/07/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-348
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+240 o/s 25m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH										
1.0	ORGANIC MATERIAL -frozen below 0.4m -stiffer drilling below 0.4m										1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	691	●	▲		SM	■	◆		2.0
3.0	END HOLE at 2.2m -refusal -rock dust on bit										3.0
4.0											4.0
5.0											5.0
6.0											6.0

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Fig. No:

COMPLETION DEPTH: 2.2 m

COMPLETE: 95/07/28

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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 502-296
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1793+300 CENTRELINE	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE

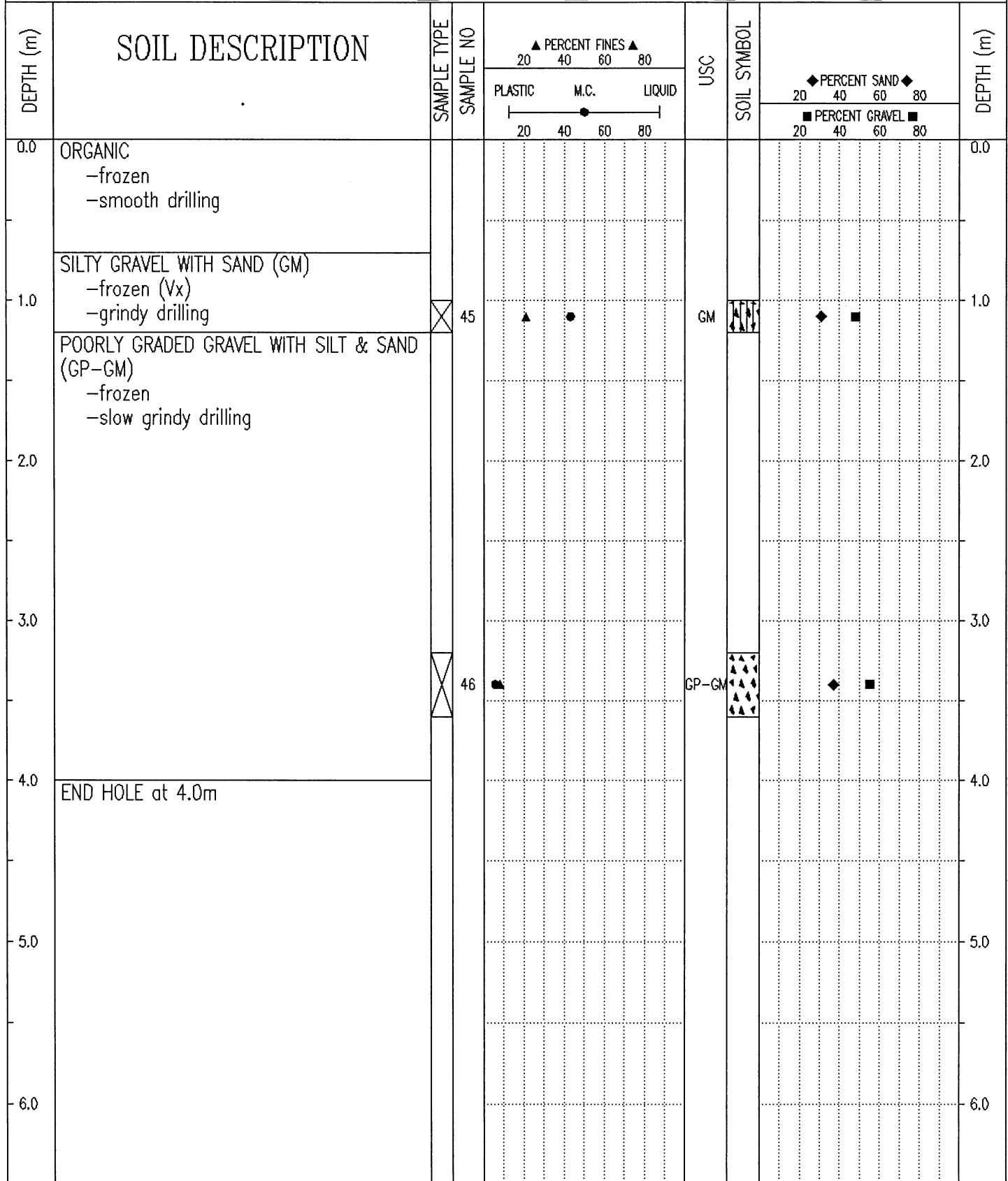
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				20 40 60 80	20 40 60 80	20 40 60 80			
							◆ PERCENT SAND ◆		
							■ PERCENT GRAVEL ■		
0.0	ORGANIC -frozen - visible ice -smooth drilling 0 - .9							0.0	
1.0	ASH -frozen SANDY GRAVEL -frozen -grinding drilling	<input checked="" type="checkbox"/>	42					1.0	
2.0								2.0	
3.0		<input checked="" type="checkbox"/>	43					3.0	
4.0	-finer, smooth drilling from 3.1-3.5m	<input checked="" type="checkbox"/>	44					4.0	
5.0	-finer, smooth drilling from 3.9-4.1m							5.0	
6.0	END HOLE at 4.5m -refusal							6.0	

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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 98/11/30

SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 502-297
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1793+300 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 502-298									
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328									
D-4 CAT B-40		LOCATION: 1793+300 25M LT		ELEVATION: 0.00 (m)									
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE													
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)	
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■				
				20	40	60	80		20	40	60	80	
0.0	ORGANIC -frozen												0.0
	ASH -frozen												
1.0	SILT WITH SAND -some pebbles & organic -frozen -slow, mostly smooth drilling	<input checked="" type="checkbox"/>	47										1.0
2.0	SILTY SAND -frozen -trace gravel												2.0
3.0													3.0
4.0	SILTY SAND WITH GRAVEL (SM) -frozen -slow grindy drilling	<input checked="" type="checkbox"/>	49	●	▲		SM	●●●●●	■	◆			4.0
4.2	END HOLE at 4.2m -refusal												4.2
5.0													5.0
6.0													6.0

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COMPLETION DEPTH: 4.2 m

REVIEWED BY:

COMPLETE: 98/11/30

Fig. No:

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-345
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+350	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL										
	SANDY SILT -brown -frozen										
1.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	689	▲	●		GM	◆	■		1.0
2.0	END HOLE at 2.2m -refusal -rock dust on bit										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

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	REVIEWED BY:	COMPLETE: 95/07/28
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 502-293
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1793+400 CENTRELINE	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 ■			
				20	40	60		20	40	60	80	
0.0	ORGANIC -frozen -smooth drilling 0 to 1.6m											0.0
	ASH -frozen											
1.0	SANDY SILT -with pebbles -frozen	<input checked="" type="checkbox"/>	35									1.0
	-grindy drilling below 1.6m											
2.0		<input checked="" type="checkbox"/>	36									2.0
	-very grindy & slow drilling below 2.5m											
3.0	-below 3m very muddy when augered up											3.0
4.0												4.0
5.0	END HOLE at 4.5m -refusal											5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 98/11/29
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 502-294
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1793+400 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
		<input type="checkbox"/> BULK
		<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				▲	▲	▲			
				◆	◆	◆			
				■	■	■			
0.0	ORGANIC & ASH -frozen -smooth drilling 0 - 1.3m							0.0	
	SILT -frozen								
1.0		<input checked="" type="checkbox"/>	37					1.0	
	SANDY SILT -with pebbles -slow grinding drilling								
2.0		<input checked="" type="checkbox"/>	38					2.0	
	-very slow grinding drilling below 2.5m								
3.0		<input checked="" type="checkbox"/>	39					3.0	
4.0	END HOLE at 3.5m -refusal -lots of rock dust on bit							4.0	
5.0								5.0	
6.0								6.0	

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	REVIEWED BY:	COMPLETE: 98/11/29
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 502-295
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1793+400 20M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			
				20	40	60	80		
				20	40	60	80		
0.0	ORGANIC -frozen -smooth drilling 0 - 1.7m								0.0
1.0	ORGANIC WITH SILT -frozen								1.0
2.0	SANDY SILT -with pebbles -frozen -slow grinding drilling	<input checked="" type="checkbox"/>	40						2.0
3.0		<input checked="" type="checkbox"/>	41						3.0
4.0	END HOLE at 3.7m -refusal								4.0
5.0									5.0
6.0									6.0

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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 3.7 m
COMPLETE: 98/11/29

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-344
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+450	ELEVATION: 0.00 (m)

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

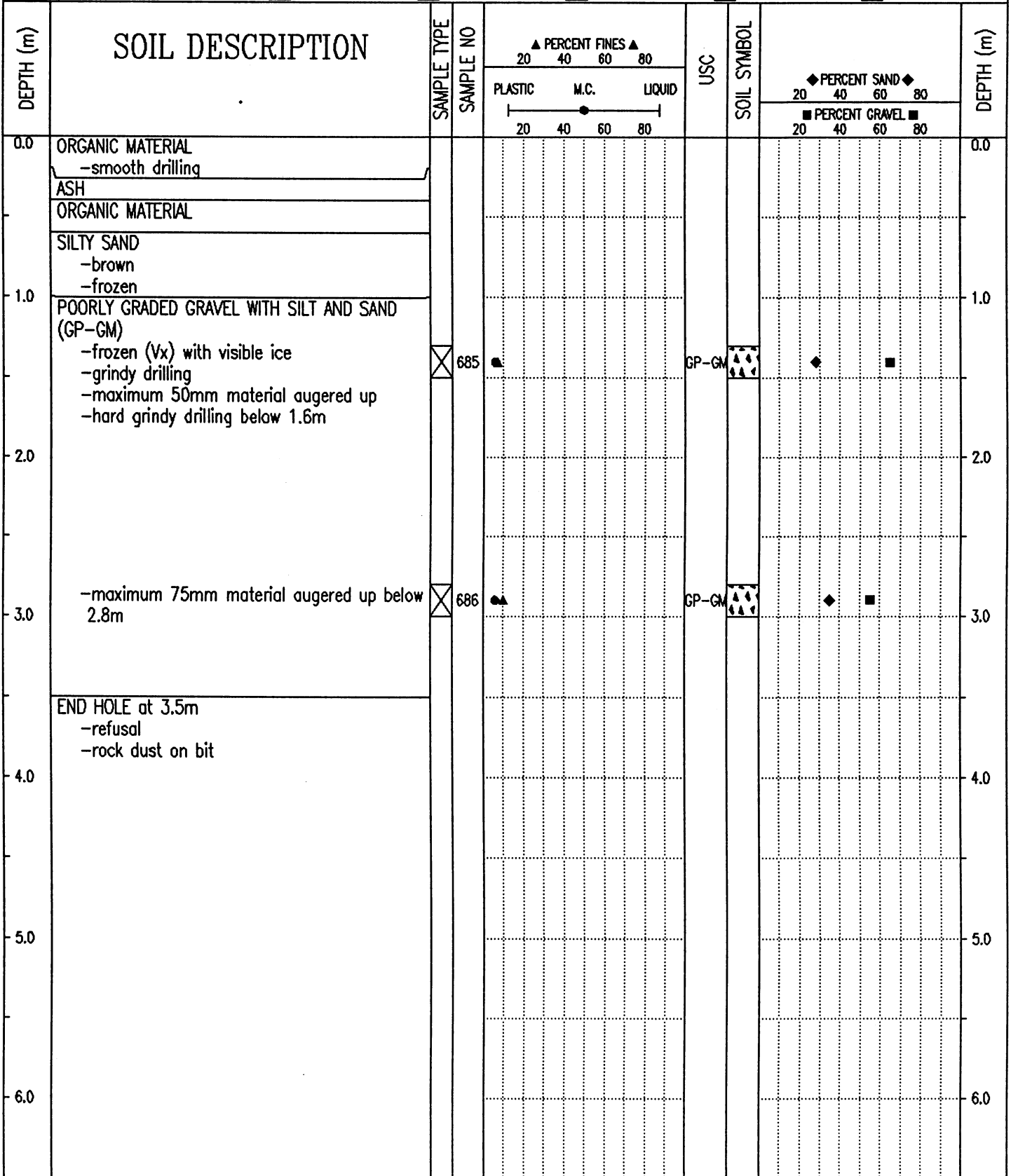
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC MATERIAL -smooth drilling										0.0	
	ASH											
	ORGANIC MATERIAL											
1.0	SILTY SAND -brown -frozen -stiffer drilling										1.0	
2.0	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -brown -frozen (Vx) with visible ice -grindy drilling										2.0	
3.0		<input checked="" type="checkbox"/>	688	▲			GW-GM	◆	■		3.0	
	END HOLE at 3.2m -refusal -rock dust on bit											
4.0											4.0	
5.0											5.0	
6.0											6.0	

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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 3.2 m
COMPLETE: 95/07/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-342
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+550	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: CC	COMPLETION DEPTH: 3.5 m
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SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 371-343

ENGINEERING-CAPITAL SEGMENT 12B Project No: 092-202101-0328

Drill: B40L 150mm SOLID STEM AUGER LOCATION: 1793+550 o/s 25m Lt. ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling ASH ORGANIC MATERIAL											0.0
1.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) -brown -damp to moist -maximum 75mm material augered up -grindy drilling											1.0
2.0												2.0
3.0												3.0
4.0												4.0
4.5	END HOLE at 4.5m -test hole located in depression on top of circular mound left of centerline and is 3.0m above test hole #371-342 From the shape of the mound a person could be lead to believe that the mound was a pingo.	<input checked="" type="checkbox"/>	687				SP-SM	◆	◆	◆		4.5
5.0												5.0
6.0												6.0

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LOGGED BY: CC COMPLETION DEPTH: 4.5 m
 REVIEWED BY: COMPLETE: 95/07/28
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-340
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+650	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 -smooth drilling ASH ORGANIC MATERIAL											0.0	
1.0	-frozen below 1.0m -stiffer drilling below 1.0m											1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	X	682	▲			SM	◆	■			2.0	
3.0	WELL-GRADED SAND WITH SILT AND GRAVEL (SW-SM) -brown -frozen (Vx) with visible ice -grindy drilling	X	683	▲			SW-SM	◆	■			3.0	
3.0	END HOLE at 2.7m -refusal -rock dust on bit											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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Fig. No:

COMPLETION DEPTH: 2.7 m

COMPLETE: 95/07/28

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-341
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+650 o/s 25m Lt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ORGANIC MATERIAL -smooth drilling										0.0	
	ASH											
	ORGANIC MATERIAL											
1.0	-stiffer drilling below 0.9m										1.0	
	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	684	●	▲		SM	◆	◆	■		
2.0											2.0	
3.0	END HOLE at 2.4m -refusal -rock dust on bit										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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	REVIEWED BY:	COMPLETE: 95/07/28
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT	TEST HOLE NO: 371-339
ENGINEERING-CAPITAL		SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER		LOCATION: 1793+650 o/s 25m Rt.	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
			<input type="checkbox"/> BULK
			<input type="checkbox"/> TUBE
			<input type="checkbox"/> CORE

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 -smooth drilling										0.0	
	ASH											
	ORGANIC MATERIAL											
1.0	SILTY SAND -brown -moist										1.0	
	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) -brown -saturated -maximum 50mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	681				GP-GM	▲▲▲▲	◆	■		
2.0	END HOLE at 2.0m -rock dust on bit										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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	REVIEWED BY:	COMPLETE: 95/07/28
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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 -smooth drilling										0.0
	ASH										
	ORGANIC MATERIAL										
1.0	WELL-GRADED GRAVEL WITH SILT AND SAND (GW-GM) -gray -frozen (Vx) with visible ice -grindy drilling -angular	<input checked="" type="checkbox"/>	677	●			GW-GM	◆	■		1.0
2.0	END HOLE at 1.8m -refusal -rock dust on bit -surface water in area										2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

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LOGGED BY: CC	COMPLETION DEPTH: 1.8 m
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-337
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1793+800 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 ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling												
	ASH												
	ORGANIC MATERIAL -frozen with visible ice -stiffer drilling												
1.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	678	●	▲		GM	◆	■				
2.0	END HOLE at 2.0m -refusal -rock dust on bit												
3.0													
4.0													
5.0													
6.0													

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Fig. No:

COMPLETION DEPTH: 2.0 m
COMPLETE: 95/07/28

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 -smooth drilling ASH ORGANIC MATERIAL										0.0
1.0	SILTY SAND (SM) -gray -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	679	▲	●		SM	◆	■		1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -sub-angular to sub-rounded	<input checked="" type="checkbox"/>	680	▲	●		SM	◆	■		2.0
3.0	END HOLE at 3.2m -refusal -rock dust on bit										3.0
4.0											4.0
5.0											5.0
6.0											6.0

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH											
	ORGANIC MATERIAL											
1.0	SILTY GRAVEL WITH SAND (GM) -brown -moist											1.0
	-grindy drilling below 1.6m		676	●	▲		GM	◆	■			
2.0	END HOLE at 2.0m -refusal -rock dust on bit -exposed bedrock in area											2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-334
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+000	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 -smooth drilling ASH ORGANIC MATERIAL									0.0	
1.0	SANDY SILT WITH GRAVEL (ML) -brown -frozen (Vx) with visible ice -stiffer drilling -grindy drilling below 1.6m	<input checked="" type="checkbox"/>	675	●	▲		ML	■	◆	1.0	
2.0										2.0	
3.0	END HOLE at 2.5m -refusal -rock dust on bit -exposed bedrock in area									3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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Fig. No:

COMPLETION DEPTH: 2.5 m
COMPLETE: 95/07/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-333
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+090 o/s 5m Rt.	ELEVATION: 0.00 (m)

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

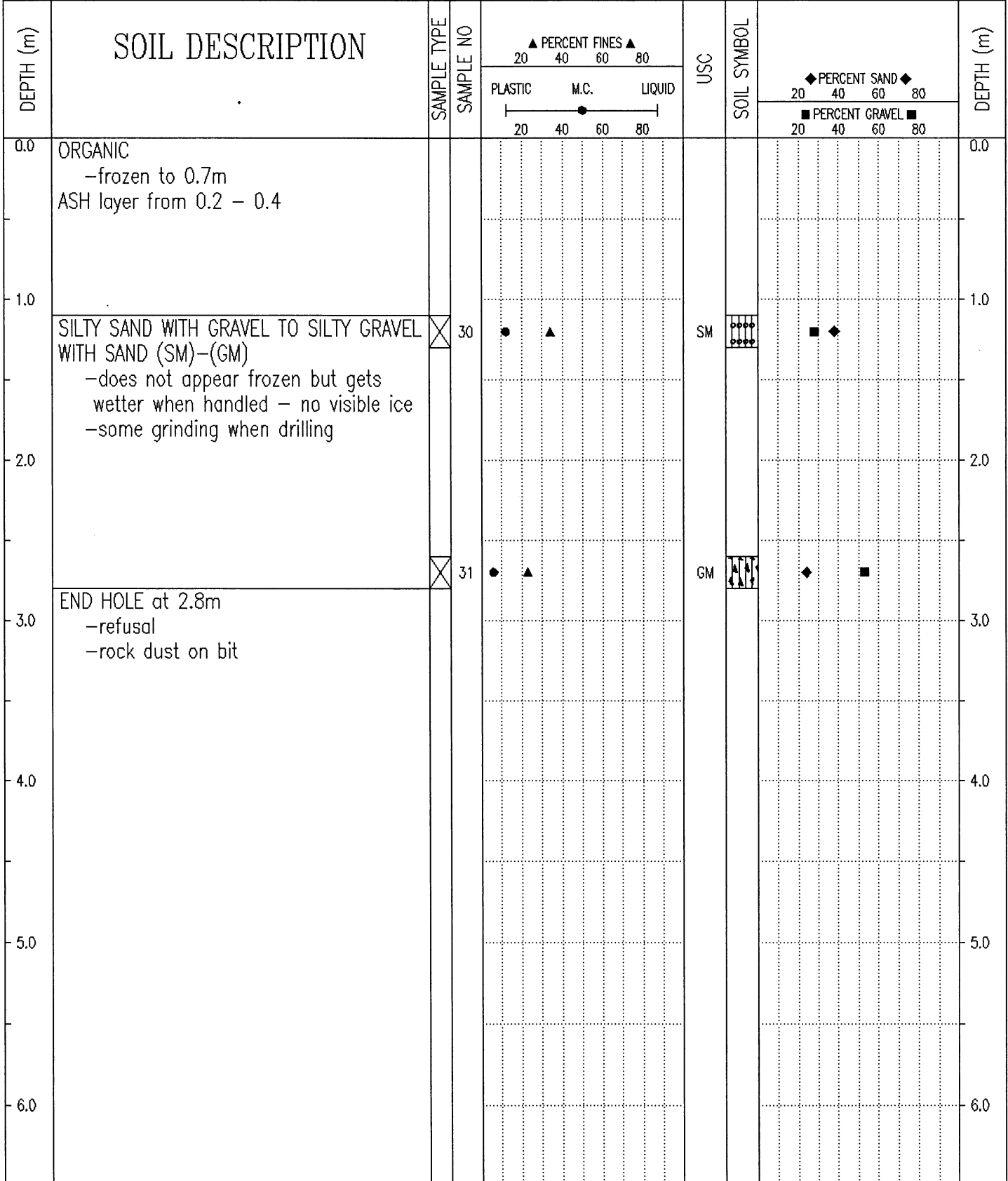
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling									0.0	
1.0	-frozen below 0.8m -stiffer drilling below 0.8m									1.0	
2.0	SILT WITH SAND (ML) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	674	●	▲		ML	◆		2.0	
2.0	END HOLE at 2.0m -refusal -rock dust on bit -exposed bedrock 5.0m Lt. of centerline									2.0	
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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Fig. No:

COMPLETION DEPTH: 2.0 m
COMPLETE: 95/07/28

SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-277
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1794+150 CENTRELINE	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: 98/11/27
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-279
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1794+150 22 RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC											0.0
	ORGANIC WITH SILT -some ash -frozen with visible ice											
1.0												1.0
	SILT -maybe frozen - no visible ice											
2.0												2.0
	END HOLE -refusal		34									
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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	REVIEWED BY:	COMPLETE: 98/11/27
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-278
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1794+150 22 LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60		
0.0	ORGANIC -frozen											0.0	
	ASH -frozen												
1.0	SILT -some pebbles -no visible ice in silt but maybe some present. (looks frozen)	<input checked="" type="checkbox"/>	32									1.0	
2.0												2.0	
	-more pebbles 2.4 to 2.8m -grindy drilling 2.4 to 2.8m	<input checked="" type="checkbox"/>	33										
3.0	END HOLE at 2.8m -refusal -rock dust on bit											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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	REVIEWED BY:	COMPLETE: 98/11/27
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-332
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+200	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling										0.0
1.0	-frozen below 1.0m -stiffer drilling below 1.0m										1.0
2.0	SILTY GRAVEL WITH SAND (GM) -brown -frozen with visible ice -grindy drilling END HOLE at 2.0m -refusal -rock dust on bit	<input checked="" type="checkbox"/>	673	20	40	60	80	GM	◆	■	2.0
3.0											3.0
4.0											4.0
5.0											5.0
6.0											6.0

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Fig. No:

COMPLETION DEPTH: 2.0 m
COMPLETE: 95/07/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-329
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+300	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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DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
1.0	SILT WITH SAND (ML) -brown -frozen (Vx) with visible ice -stiffer drilling	<input checked="" type="checkbox"/>	668				ML					1.0	
2.0	SILTY SAND (SM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	669				SM					2.0	
3.0	END HOLE at 2.8m -refusal -rock dust on bit -exposed bedrock in area -surface water in area											3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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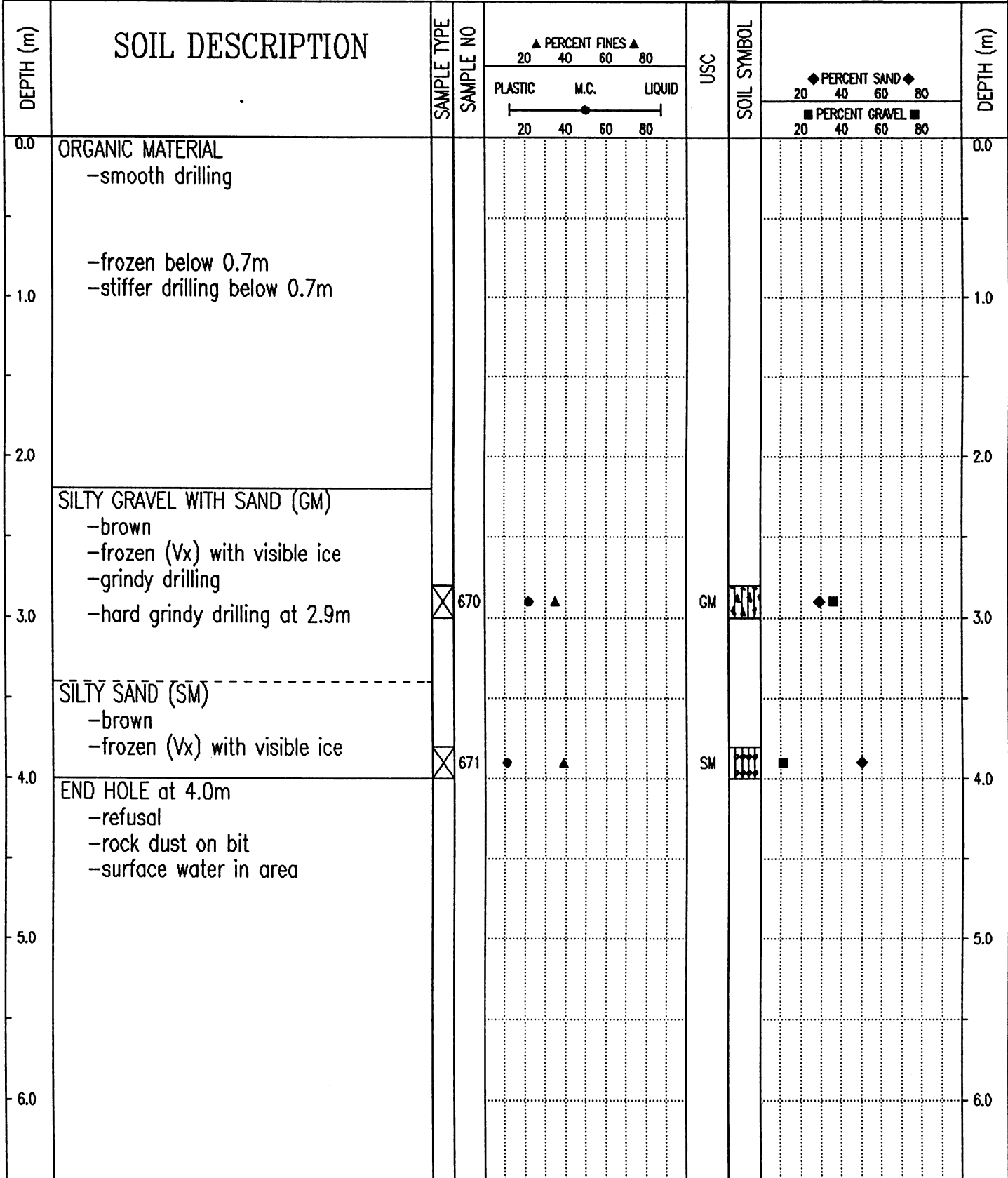
Fig. No:

COMPLETION DEPTH: 2.8 m

COMPLETE: 95/07/28

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-330
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+300 o/s 20m Lt.	ELEVATION: 0.00 (m)

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



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LOGGED BY: CC	COMPLETION DEPTH: 4.0 m
REVIEWED BY:	COMPLETE: 95/07/28
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 371-331						
ENGINEERING-CAPITAL		SEGMENT 12B		Project No: 092-202101-0328						
Drill: B40L 150mm SOLID STEM AUGER		LOCATION: 1794+300 o/s 30m Rt.		ELEVATION: 0.00 (m)						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC M.C. LIQUID 20 40 60 80				■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	ORGANIC MATERIAL -smooth drilling									0.0
	ASH									
	ORGANIC MATERIAL									
1.0	-frozen below 1.0m -stiffer drilling below 1.0m									1.0
2.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling									2.0
		<input checked="" type="checkbox"/>	672	●	▲		SM	■	◆	
3.0	END HOLE at 2.5m -refusal -rock dust on bit -surface water in area									3.0
4.0										4.0
5.0										5.0
6.0										6.0

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Fig. No:

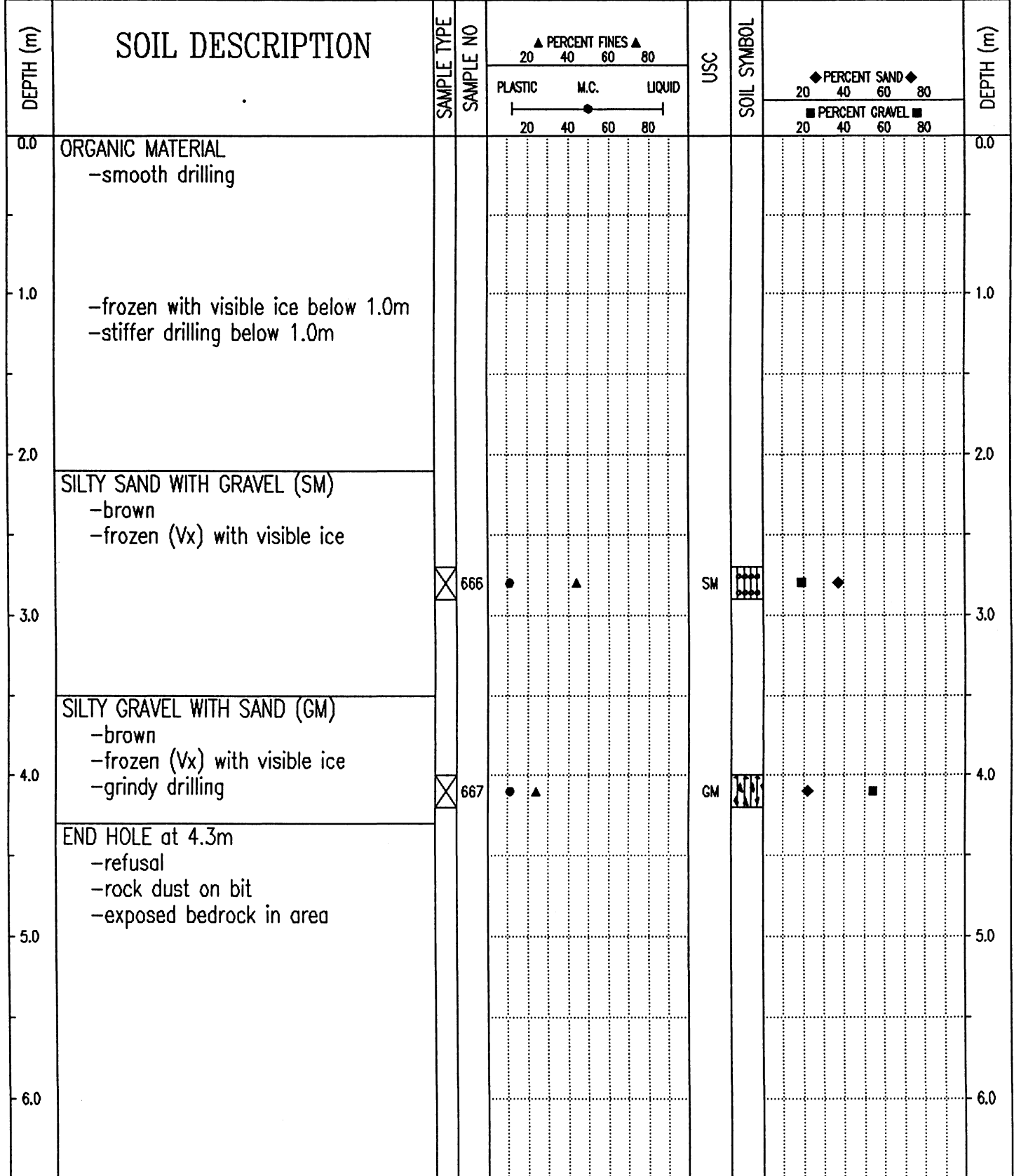
COMPLETION DEPTH: 2.5 m

COMPLETE: 95/07/28

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-328
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+450	ELEVATION: 0.00 (m)

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



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COMPLETION DEPTH: 4.3 m

COMPLETE: 95/07/28

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

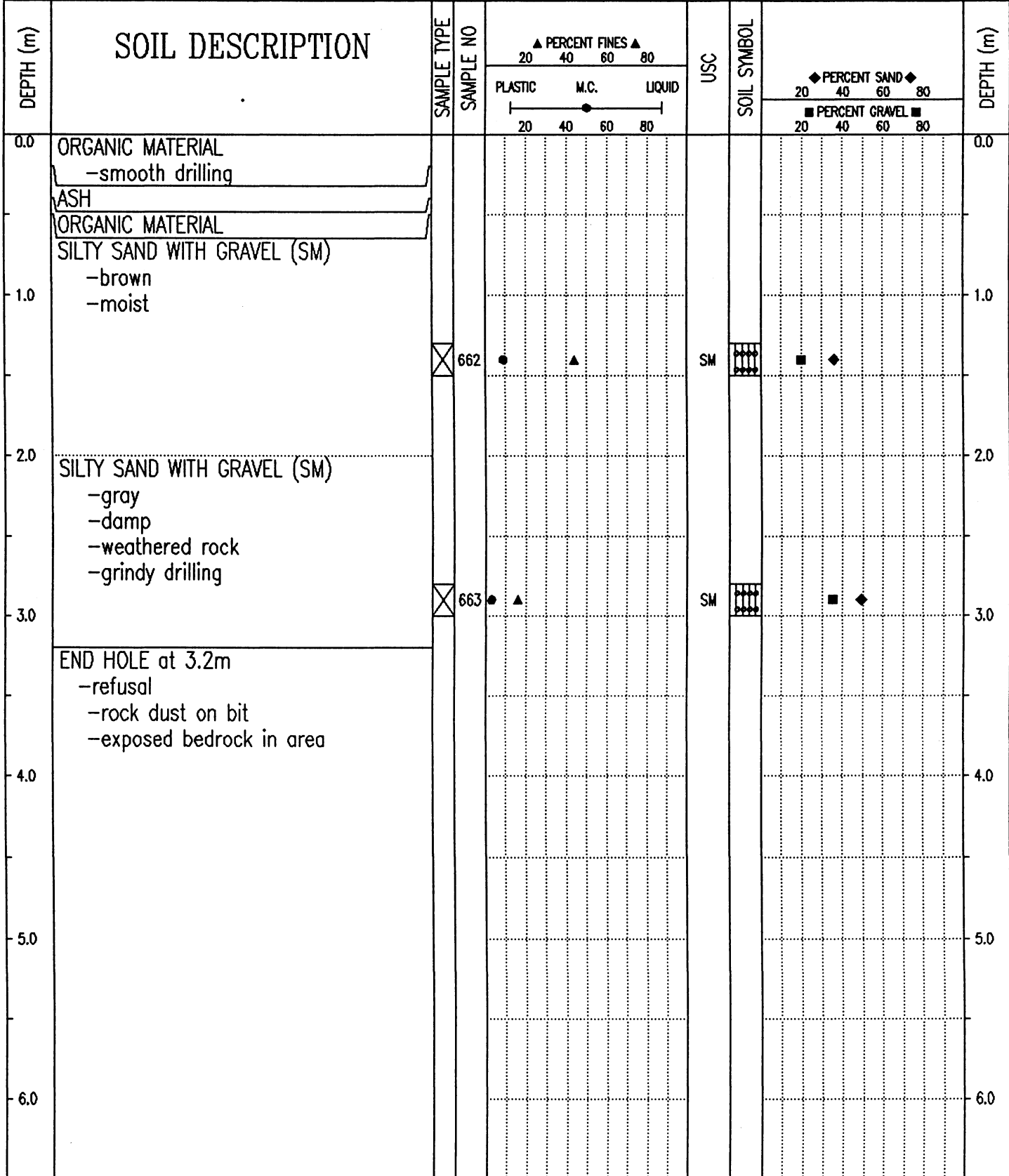
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0
	ASH											
	ORGANIC MATERIAL											
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice below 1.0m -stiffer drilling below 1.0m	<input checked="" type="checkbox"/>	664	●	▲		SM		■	◆		1.0
2.0	SILTY SAND (SM) -gray -frozen (Vx) with visible ice -weathered rock -grindy drilling	<input checked="" type="checkbox"/>	665	●	▲		SM		■	◆		2.0
3.0	END HOLE at 2.7m -refusal -rock dust on bit -exposed bedrock in area											3.0
4.0												4.0
5.0												5.0
6.0												6.0

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LOGGED BY: CC	COMPLETION DEPTH: 2.7 m
REVIEWED BY:	COMPLETE: 95/07/27
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 501-276								
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328								
D-4 CAT B-40		LOCATION: 1794+600 20M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
				<input type="checkbox"/> BULK								
				<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ASH -frozen -smooth drilling										0.0	
1.0	SILTY GRAVEL WITH SAND (GM) -slow grindy drilling, (could not tell if frozen)	<input checked="" type="checkbox"/>	28A	●	▲		GM	◆	■		1.0	
2.0	WEATHERED ROCK -grey white rock dust	<input checked="" type="checkbox"/>	29								2.0	
3.0	END HOLE at 2.4m -refusal Note: station 1794+500 25m RHS & 1794+400 20m LHS is exposed rock										3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.S.		COMPLETION DEPTH: 2.4 m						
				REVIEWED BY:		COMPLETE: 98/11/27						
				Fig. No:		Page 1 of 1						

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



SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 501-275								
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328								
D-4 CAT B-40		LOCATION: 1794+650 20M RT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER								
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE								
				<input type="checkbox"/> CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40		
0.0	ASH -frozen											0.0
1.0	SILTY SAND WITH GRAVEL (SM) -frozen -some ash	<input checked="" type="checkbox"/>	26	●	▲		SM	◆◆◆◆	◆	■		1.0
2.0	SILTY GRAVEL WITH SAND (GM) -grindy drilling, hard to determine if gravel frozen or not	<input checked="" type="checkbox"/>	27	●	▲		GM	◆◆◆◆	◆	■		2.0
3.0	SAND -frozen -slow smooth drilling											3.0
4.0	END HOLE at 4.0m	<input checked="" type="checkbox"/>	28									4.0
5.0												5.0
6.0												6.0
Government of Yukon Transportation Engineering				LOGGED BY: B.S.		COMPLETION DEPTH: 2.0 m						
				REVIEWED BY:		COMPLETE: 98/11/27						
				Fig. No:		Page 1 of 1						

SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 501-274						
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328						
D-4 CAT B-40		LOCATION: 1794+700 CENTRELINE		ELEVATION: 0.00 (m)						
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE			
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80		USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		DEPTH (m)
				PLASTIC	M.C.			LIQUID	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	ORGANIC									0.0
	ASH									
	SANDY SILT									
1.0	SILTY SAND WITH GRAVEL (SM)	<input checked="" type="checkbox"/>	24	●	▲		SM	◆	■	1.0
	-slow grindy drilling 1.5 to 2.0									
2.0	WEATHERED ROCK	<input checked="" type="checkbox"/>	25							2.0
	END HOLE at 2.0m									
	-refusal									
3.0										3.0
4.0										4.0
5.0										5.0
6.0										6.0

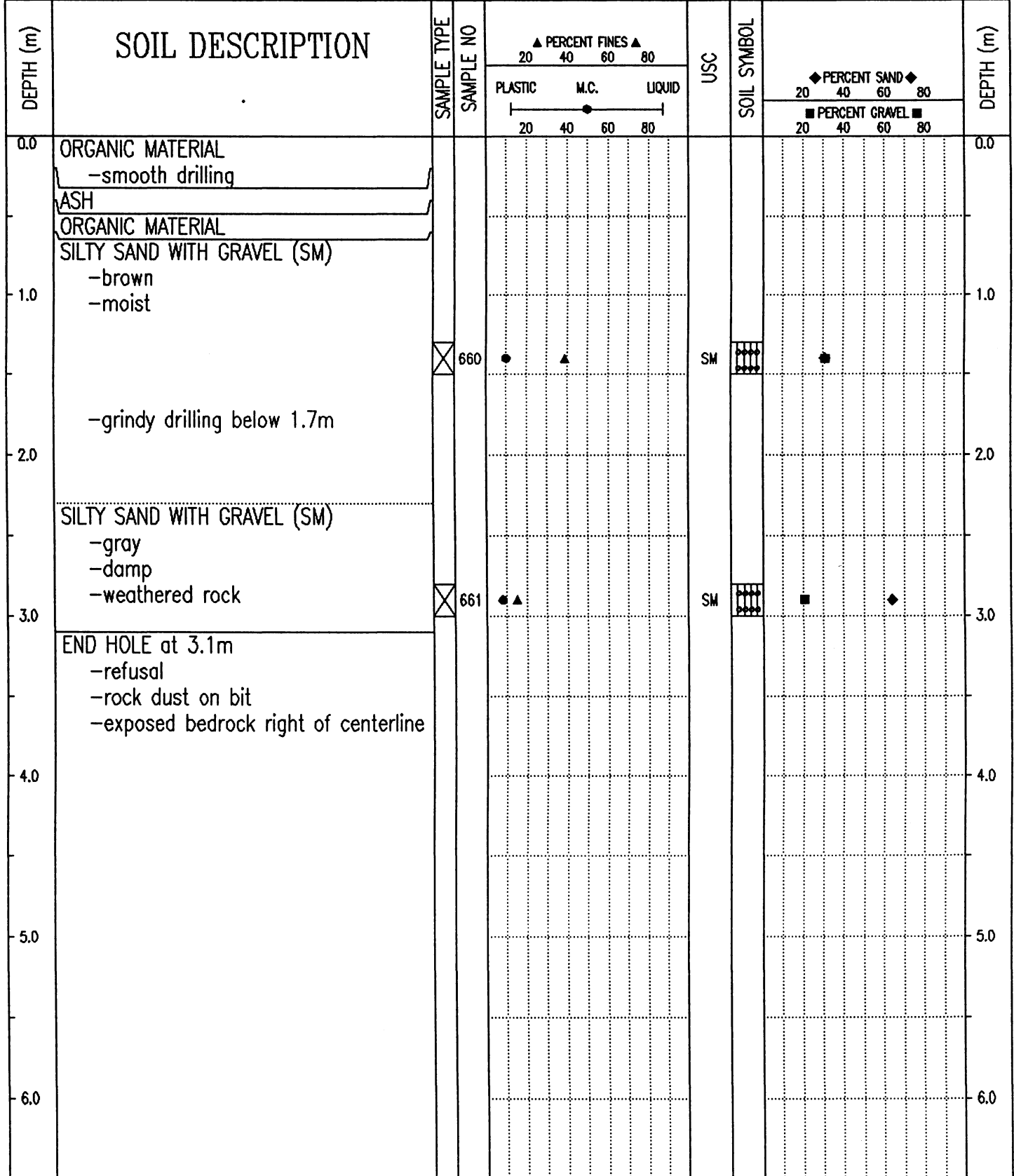
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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 2.0 m
COMPLETE: 98/11/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-325
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+775 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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	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-324
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1794+875	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	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL												
1.0	SILTY SAND (SM) -brown -frozen (Vx) with visible ice -grindy drilling		659	●	▲		SM	▨	◆	■		1.0	
2.0	END HOLE at 1.7m -refusal -rock dust on bit											2.0	
3.0												3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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Fig. No:

COMPLETION DEPTH: 1.7 m

COMPLETE: 95/07/27

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-323
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1795+000	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 -smooth drilling											0.0	
	ASH												
	ORGANIC MATERIAL												
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling	<input checked="" type="checkbox"/>	658	●	▲		SM	◆	■			1.0	
2.0	END HOLE at 1.9m -refusal -rock dust on bit											2.0	
3.0												3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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Fig. No:

COMPLETION DEPTH: 1.9 m

COMPLETE: 95/07/27

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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-322
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1795+095 o/s 23m Rt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	ASH -light gray												
1.0	ORGANIC MATERIAL -frozen with visible ice below 0.8m -stiffer drilling below 0.8m											1.0	
2.0												2.0	
3.0	SILTY SAND WITH GRAVEL (SM) -gray -frozen (Vx) with visible ice -grindy drilling below 3.0m	<input checked="" type="checkbox"/>	656	●	▲		SM		■	◆		3.0	
4.0	END HOLE at 3.8m -refusal -rock dust on bit -surface water in area	<input checked="" type="checkbox"/>	657	●	▲		SM		■	◆		4.0	
5.0												5.0	
6.0												6.0	

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LOGGED BY: CC	COMPLETION DEPTH: 3.8 m
REVIEWED BY:	COMPLETE: 95/07/27
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-320
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1795+100	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 -smooth drilling										0.0	
1.0	-frozen with visible ice below 1.0m -stiffer drilling below 1.0m										1.0	
2.0	SANDY SILT (ML) -weathered rock -grindy drilling END HOLE at 2.2m -refusal -rock dust on bit -water on surface	<input checked="" type="checkbox"/>	653		55	65	ML	■	40	■	2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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Fig. No:

COMPLETION DEPTH: 2.2 m

COMPLETE: 95/07/27

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SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 371-321

ENGINEERING-CAPITAL SEGMENT 12B Project No: 092-202101-0328

Drill: B40L 150mm SOLID STEM AUGER LOCATION: 1795+108 o/s 25m Lt. ELEVATION: 0.00 (m)

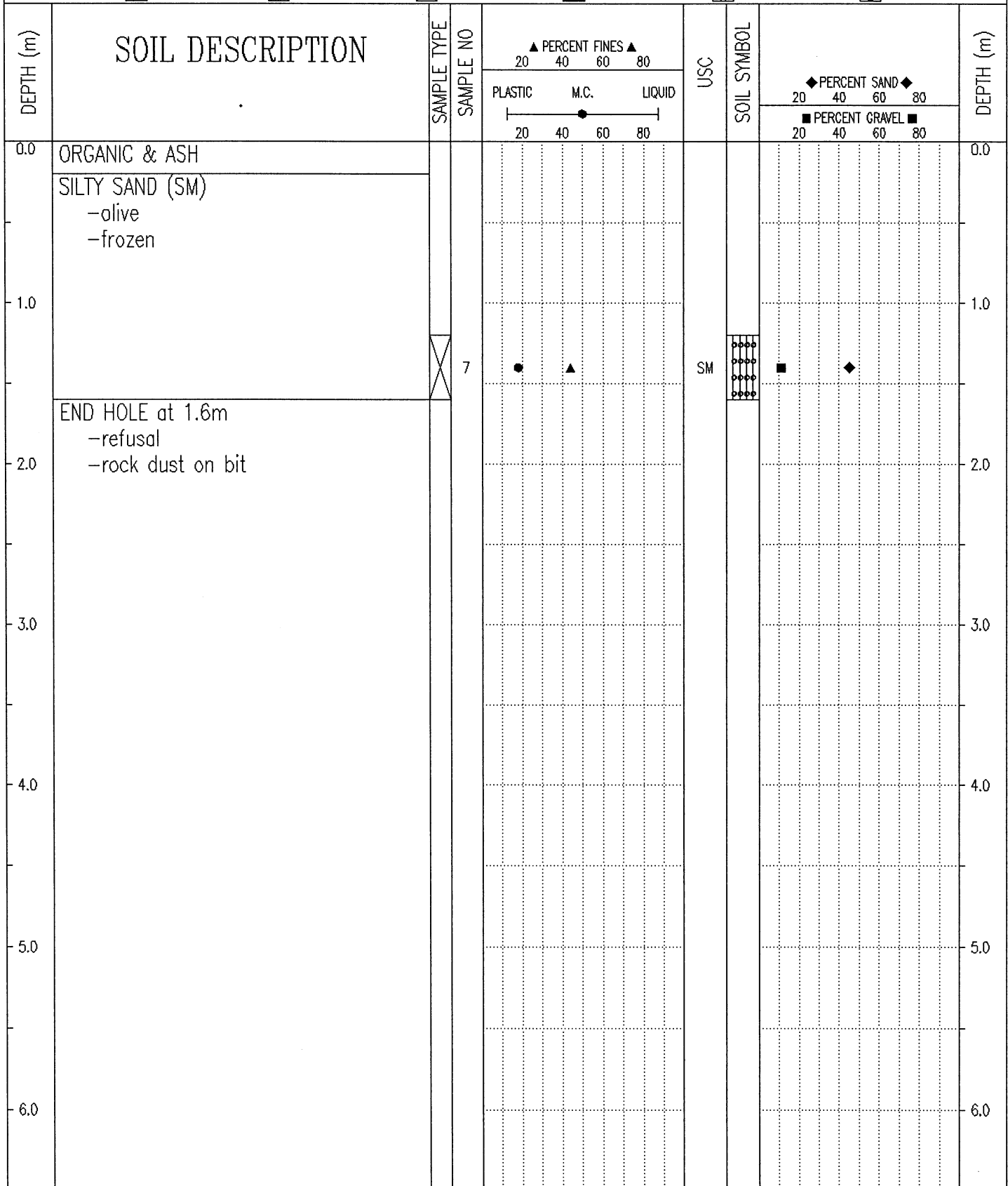
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling -frozen below 0.6m											0.0	
1.0	GRAVELLY SILT WITH SAND (ML) -frozen (Vx) with visible ice -organic	<input checked="" type="checkbox"/>	654	●	▲		ML		◆	■		1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -frozen (Vx) with visible ice											2.0	
3.0	WEATHERED ROCK -grindy drilling END HOLE at 3.0m -refusal -rock dust on bit -water on surface	<input checked="" type="checkbox"/>	655	●	▲		SM		◆	■		3.0	
4.0												4.0	
5.0												5.0	
6.0												6.0	

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LOGGED BY: CC COMPLETION DEPTH: 3.0 m
 REVIEWED BY: COMPLETE: 95/07/27
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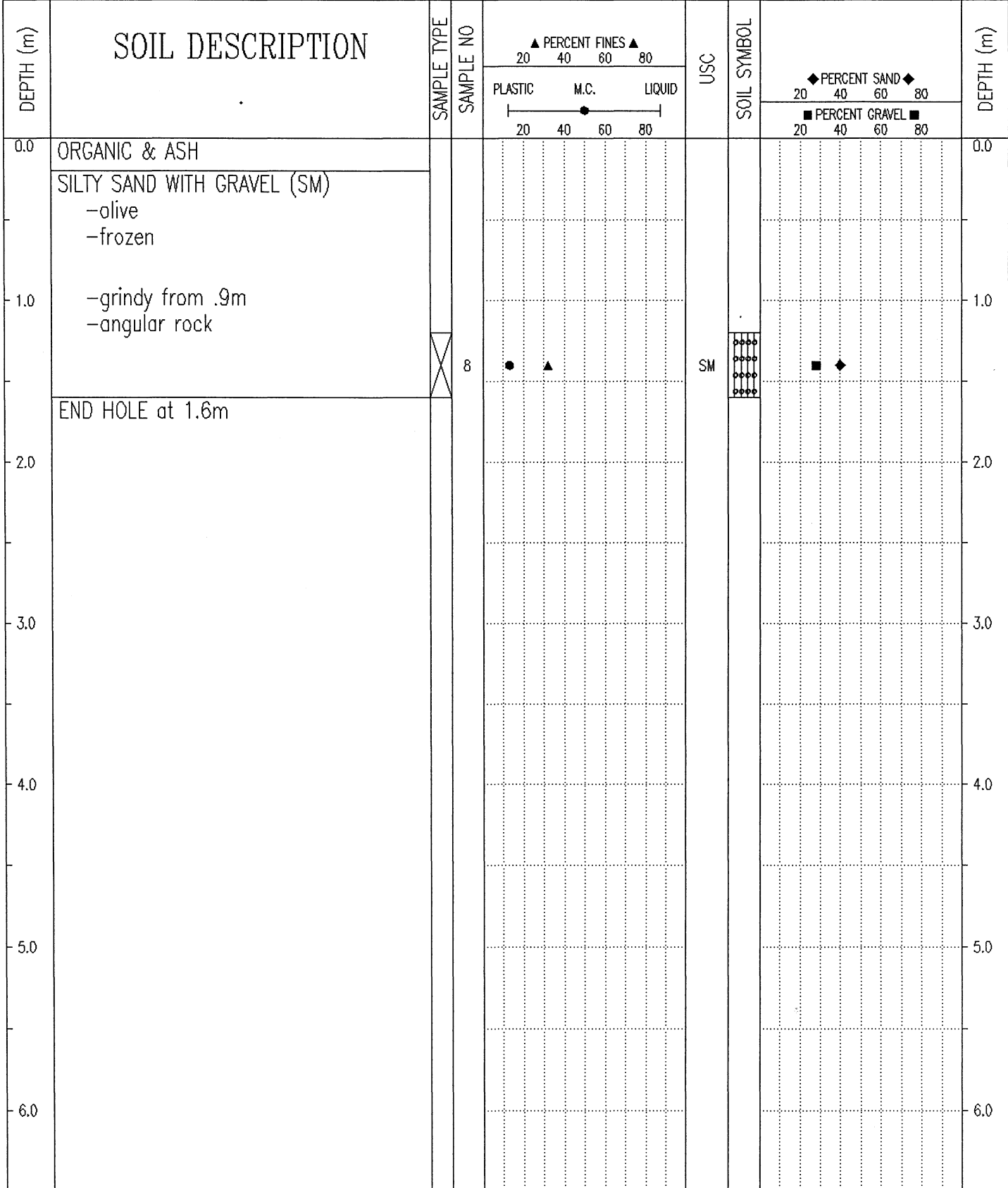
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-258
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+149 CENTRELINE	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> 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: 98/11/26
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-259
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+150 20M RT	ELEVATION: 0.00 (m)

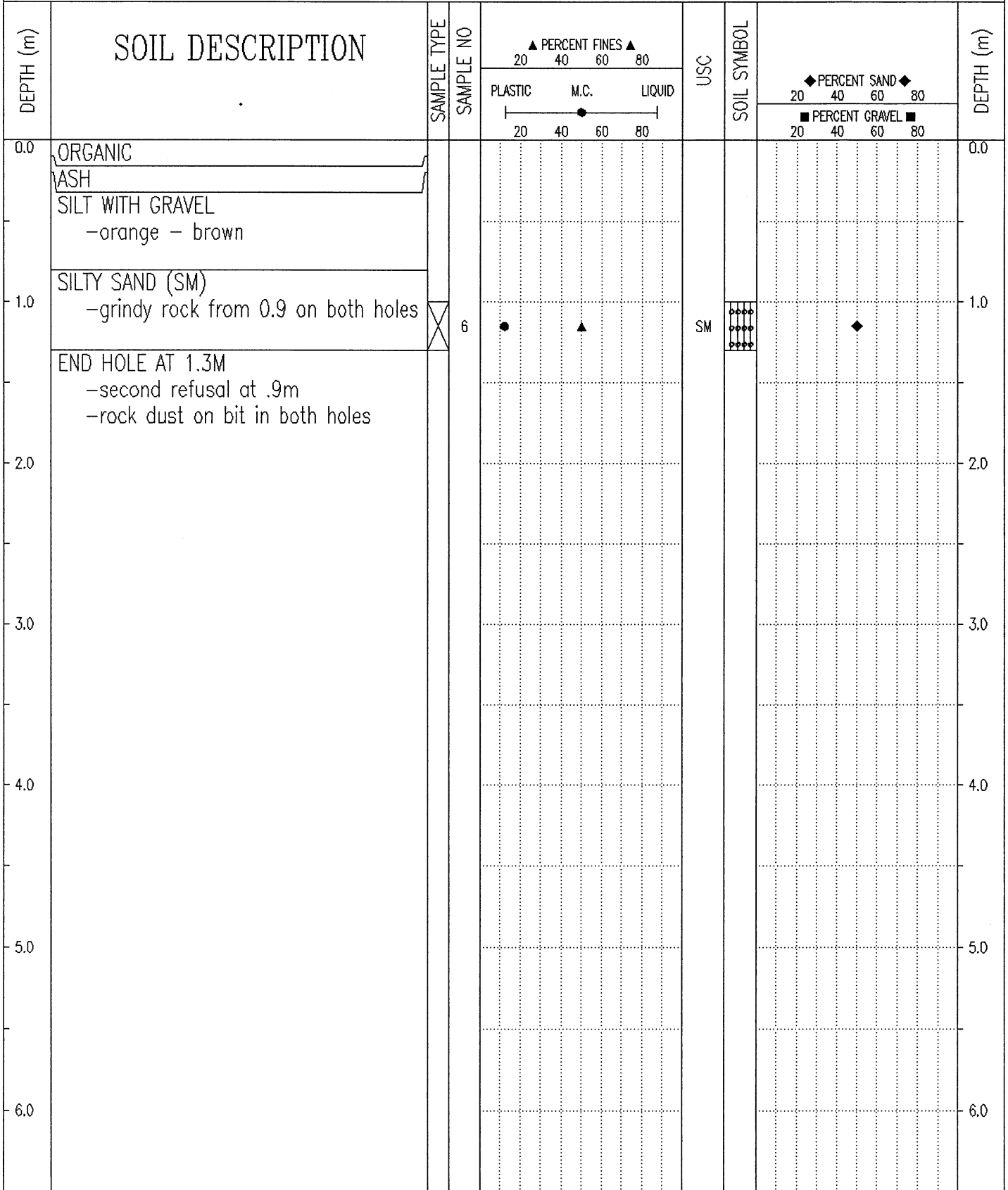
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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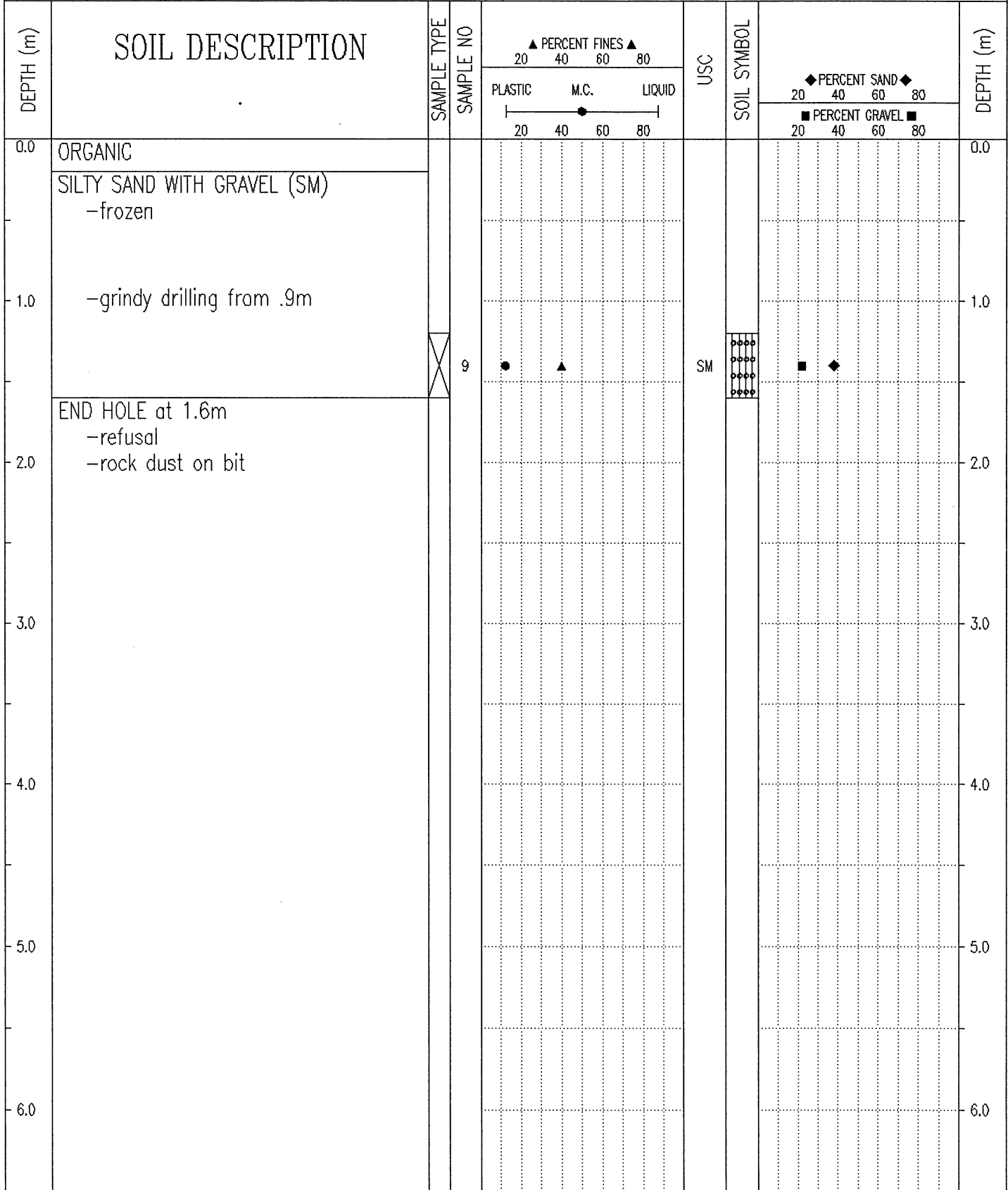
SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-257
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+199 CENTRELINE	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> 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: 98/11/26
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-260
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+200 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



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	REVIEWED BY:	COMPLETE: 98/11/26
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-319
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1795+250	ELEVATION: 0.00 (m)

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

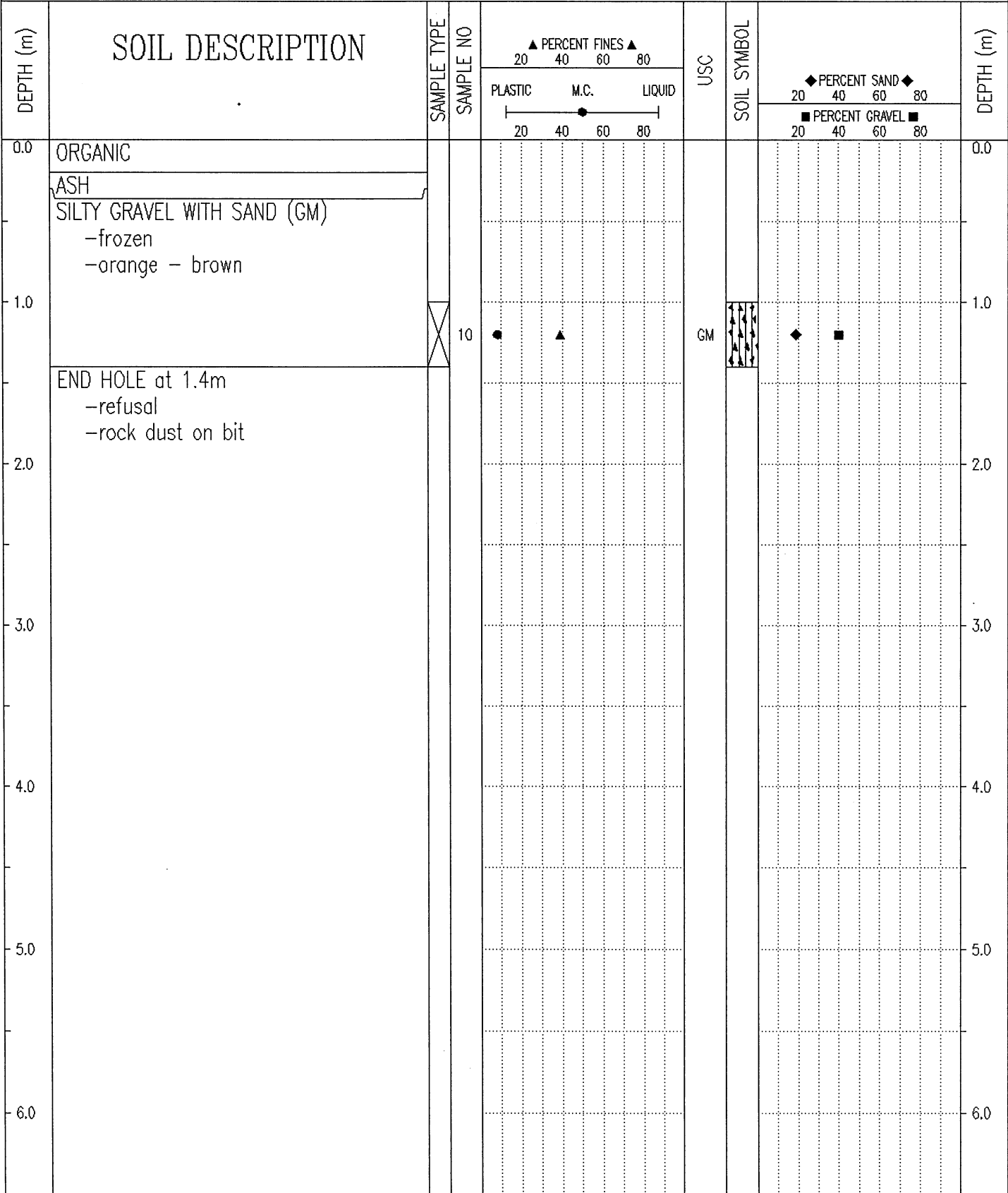
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling												0.0
	SILTY SANDY GRAVEL -brown -frozen												
1.0													1.0
	WEATHERED ROCK												
2.0	END HOLE at 1.6m -refusal -rock dust on bit -exposed bedrock in area of hole												2.0
3.0													3.0
4.0													4.0
5.0													5.0
6.0													6.0

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Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-261
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+250 20M RT	ELEVATION: 0.00 (m)

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



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COMPLETION DEPTH: 1.4 m
COMPLETE: 98/11/26

SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-273
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1795+250 25M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	ORGANIC & ASH -frozen											0.0
0.3	END HOLE at .3m -refusal -exposed rock approx. 15m downchain & 15m LHS of test hole											
1.0	NOTE: Exposed rock at 1795+200 20m LHS											1.0
2.0												2.0
3.0												3.0
4.0												4.0
5.0												5.0
6.0												6.0

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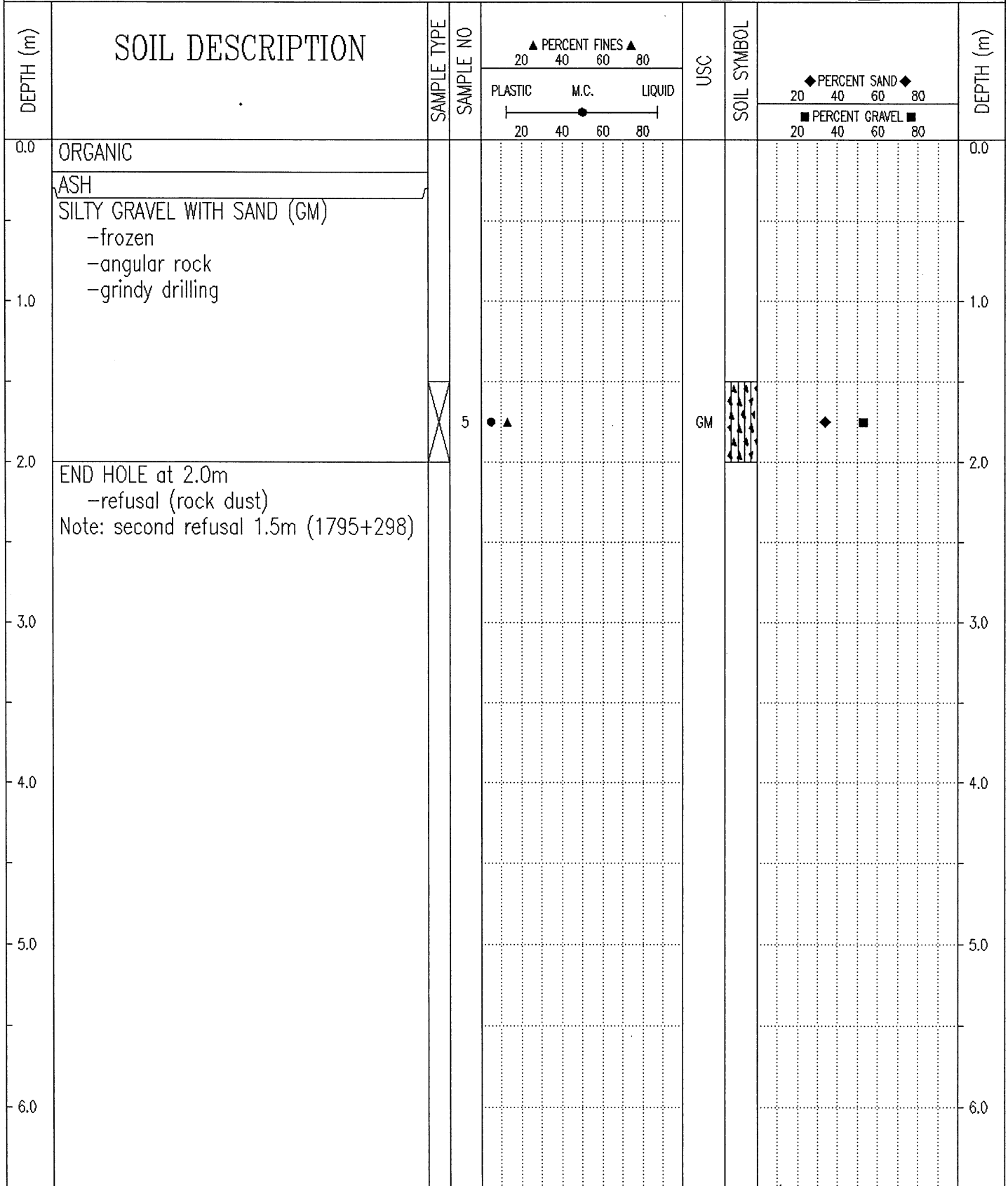
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Fig. No:

COMPLETION DEPTH: 0.3 m

COMPLETE: 98/11/27

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-256
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+299 CENTRELINE	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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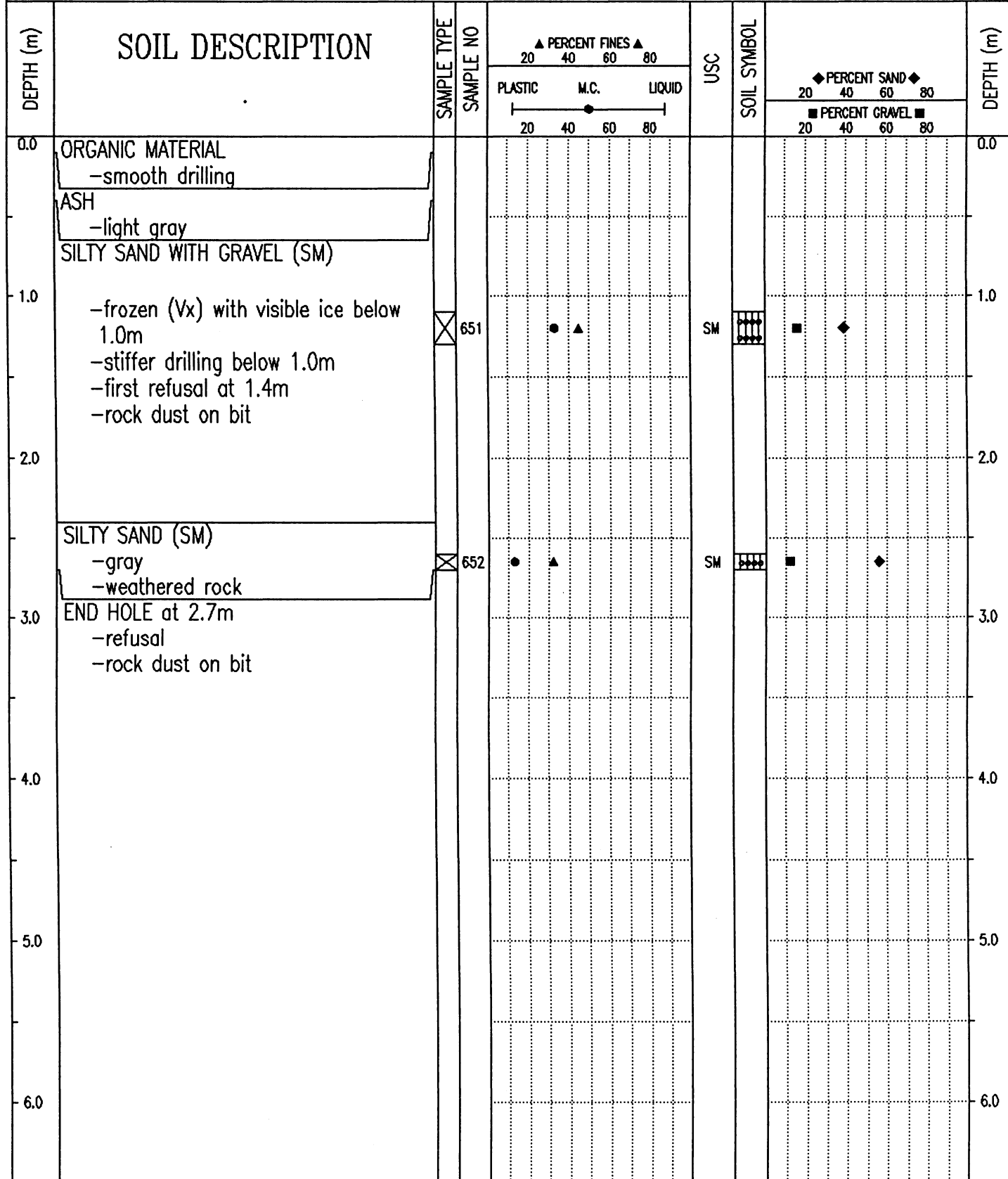
LOGGED BY: G.C.
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 2.0 m
COMPLETE: 98/11/26

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY PRE-ENGINEERING		TEST PIT NO: 500-262				
SHAKWAK PROJECT SEGMENT 12B		KM 1761 - 1799		Project No: 092-202101-0328				
D-4 CAT B40		LOCATION: 1795+300 20M RT		ELEVATION: 0.00 (m)				
SAMPLE TYPE <input type="checkbox"/> RETURN		<input checked="" type="checkbox"/> S.P.T.		<input checked="" type="checkbox"/> AUGER				
		<input type="checkbox"/> BULK		<input type="checkbox"/> TUBE				
				<input type="checkbox"/> CORE				
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲	USC	SOIL SYMBOL	◆ PERCENT SAND ◆	DEPTH (m)
				PLASTIC			M.C.	
0.0	ORGANIC			20 40 60 80			20 40 60 80	0.0
	ASH							
1.0	SILTY SAND WITH GRAVEL (SM) -olive -frozen							1.0
2.0			11			SM		2.0
3.0	END HOLE at 2.5m -refusal -rock dust on bit							3.0
4.0								4.0
5.0								5.0
6.0								6.0
Government of Yukon Transportation Engineering				LOGGED BY: G.C.		COMPLETION DEPTH: 2.5 m		
				REVIEWED BY:		COMPLETE: 98/11/26		
				Fig. No:		Page 1 of 1		

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-318
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1795+350	ELEVATION: 0.00 (m)

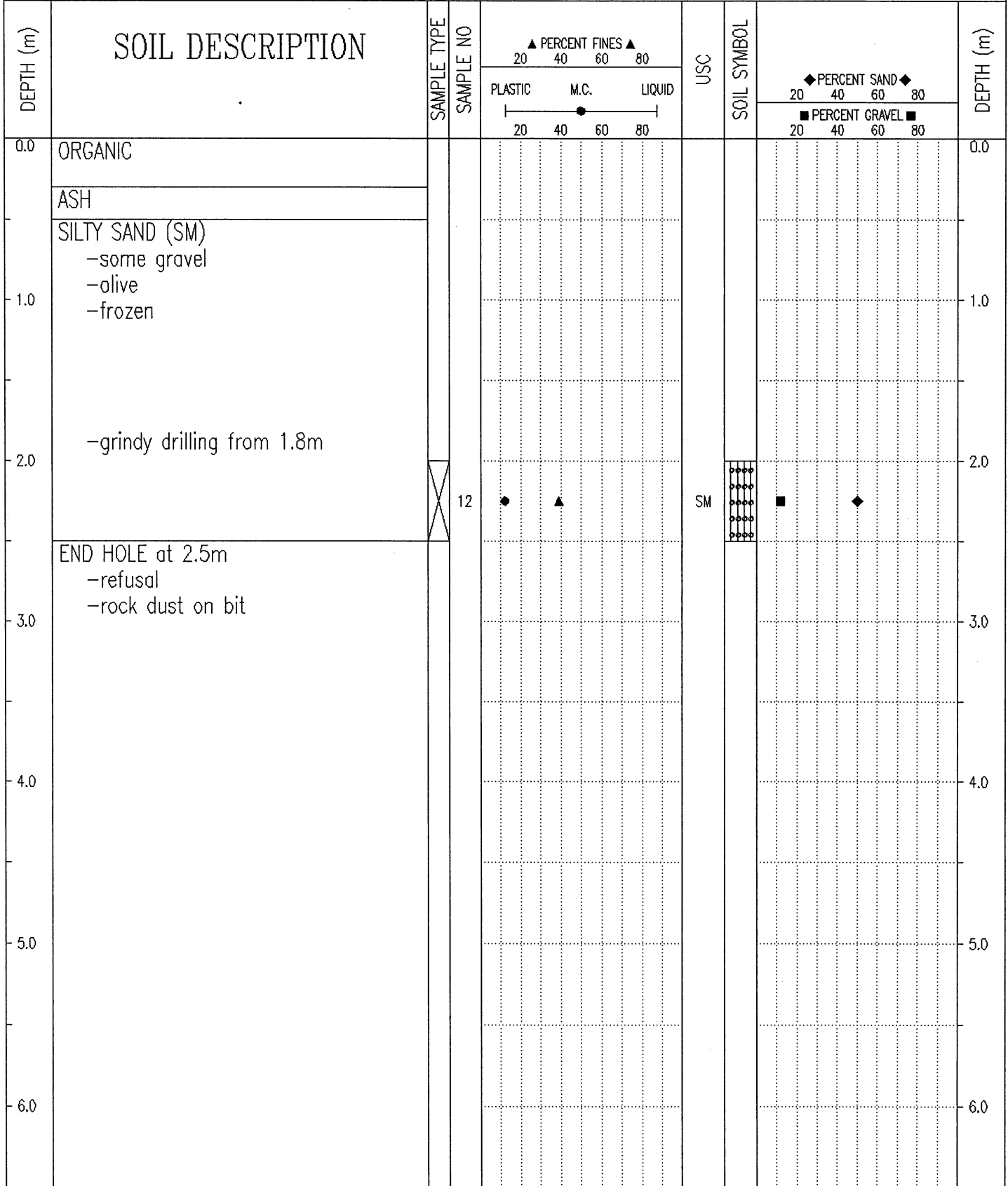
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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Fig. No:
COMPLETION DEPTH: 2.7 m
COMPLETE: 95/07/27
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-263
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+350 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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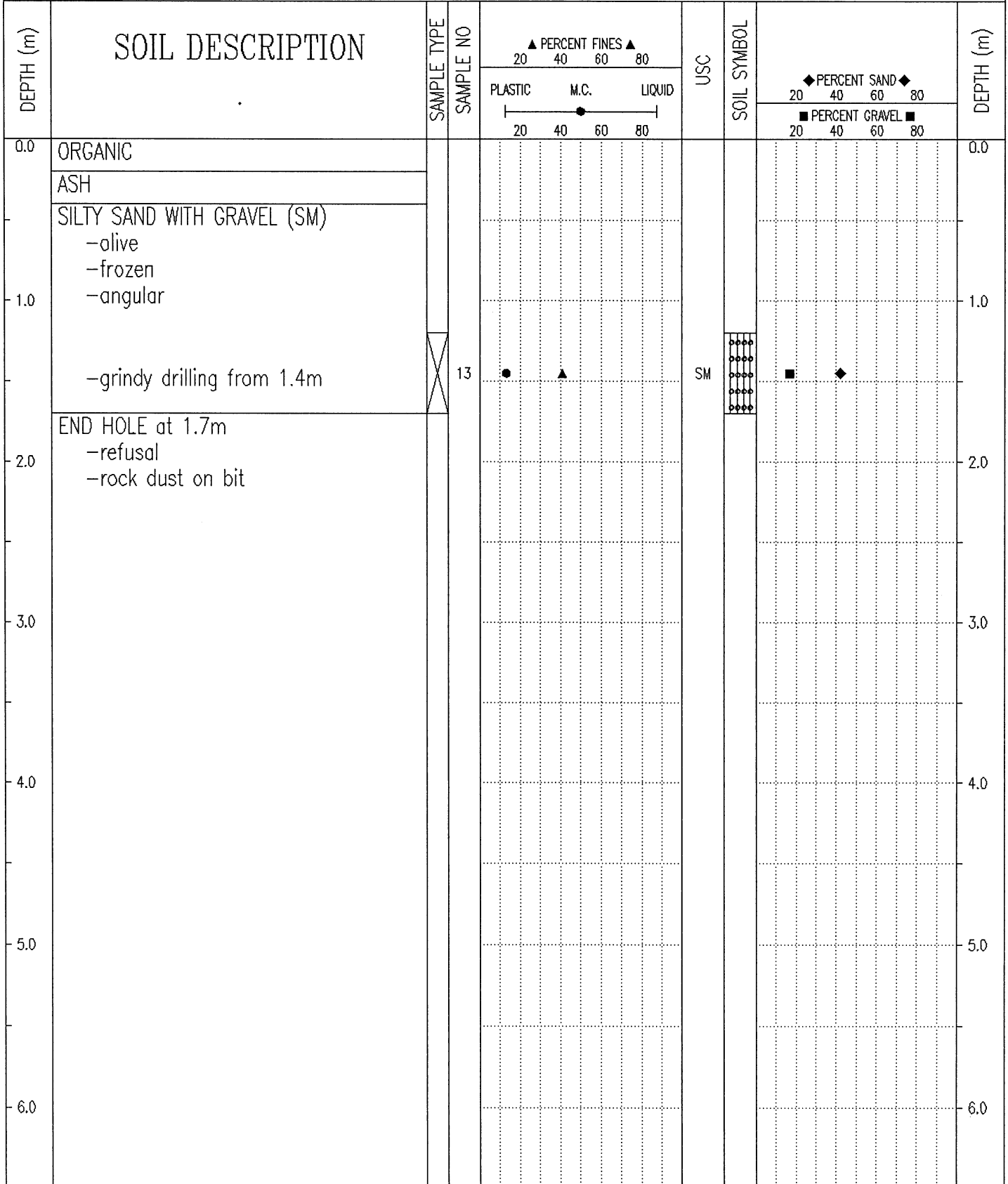
SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 501-271								
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328								
D-4 CAT B-40		LOCATION: 1795+350 20M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲		USC	SOIL SYMBOL	◆ PERCENT SAND ◆		DEPTH (m)		
				PLASTIC	M.C.			LIQUID	PERCENT GRAVEL ■			
0.0	ORGANIC -frozen									0.0		
	ASH -frozen											
1.0										1.0		
	SILTY SAND WITH GRAVEL (SM) -frozen -grindy drilling -first refusal at 1.7m -move 5m downchain	<input checked="" type="checkbox"/>	21	●	▲		SM	■	◆			
2.0										2.0		
	END HOLE at 2.5m -2nd refusal											
3.0										3.0		
4.0										4.0		
5.0										5.0		
6.0										6.0		
Government of Yukon Transportation Engineering				LOGGED BY: B.S.		COMPLETION DEPTH: 2.5 m						
				REVIEWED BY:		COMPLETE: 98/11/27						
				Fig. No:								Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-255
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+399 CENTRELINE	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 SANDY SILT -grey -frozen										0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -grinding rock 1.0 to 1.4m -first refusal at 1.0m END HOLE at 1.4m -2nd refusal (1795+398)	<input checked="" type="checkbox"/>	4	●	▲		SM	◆	■		1.0	
2.0											2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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	REVIEWED BY:	COMPLETE: 98/11/26
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-264
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+400 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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COMPLETION DEPTH: 1.7 m

REVIEWED BY:

COMPLETE: 98/11/26

Fig. No:

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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-270
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1795+400 20M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC										0.0	
	ORGANIC SILT -frozen (Vx)											
1.0											1.0	
		<input checked="" type="checkbox"/>	20									
	GRAVEL -frozen											
2.0	END HOLE at 1.7m -refusal										2.0	
3.0											3.0	
4.0											4.0	
5.0											5.0	
6.0											6.0	

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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-269
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1795+440 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	DEPTH (m)										
				PLASTIC	M.C.	LIQUID													
				20	40	60		20	40	60	80								
0.0	ORGANIC -frozen -ASH layer 0.1-0.3m																		0.0
1.0	SANDY SILT -with traces of gravel																		1.0
			19																
2.0	WEATHER ROCK END HOLE at 1.4m -refusal -moved 5m downchain refusal at 1.5m																		2.0
3.0																			3.0
4.0																			4.0
5.0																			5.0
6.0																			6.0

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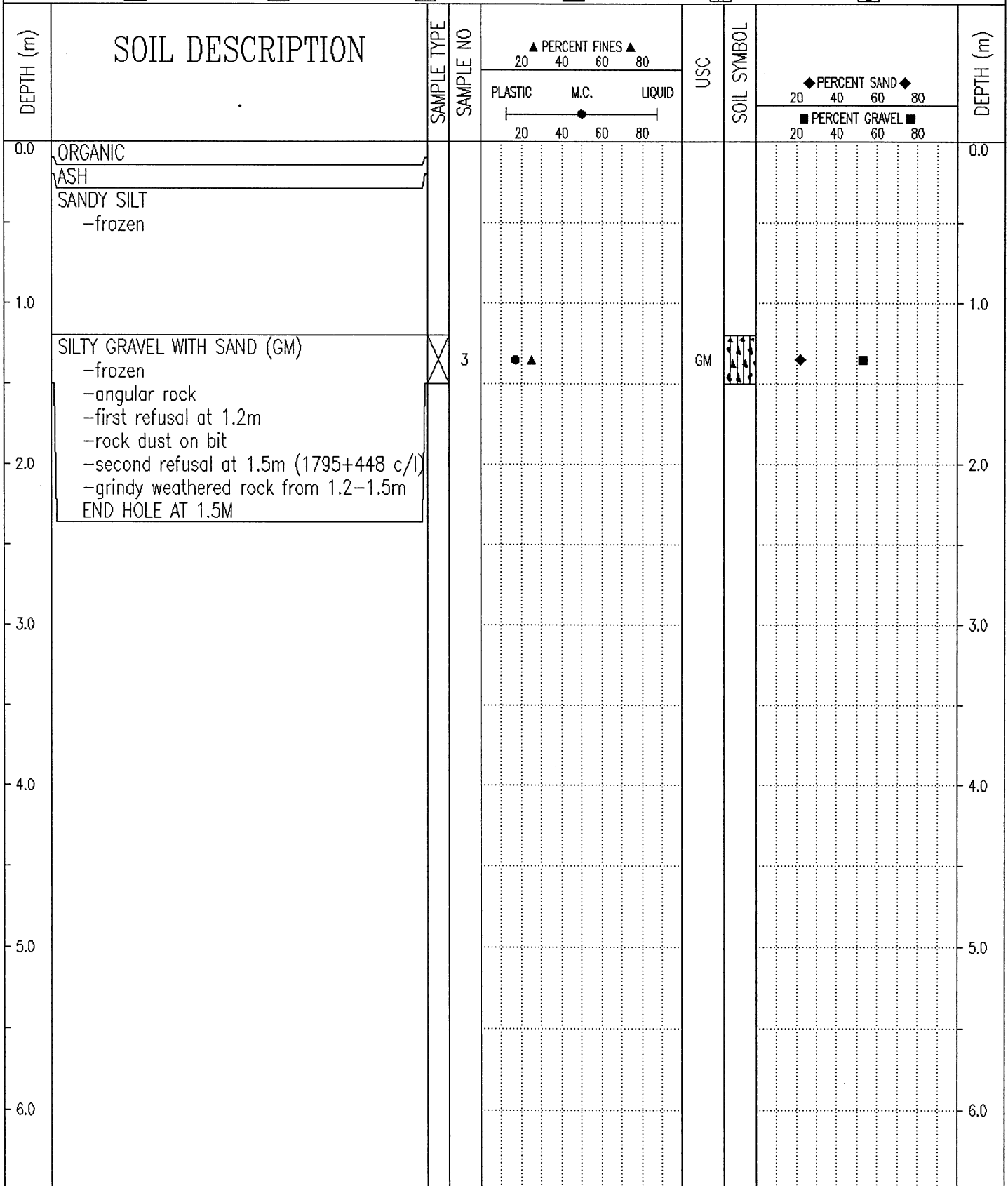
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Fig. No:

COMPLETION DEPTH: 1.5 m

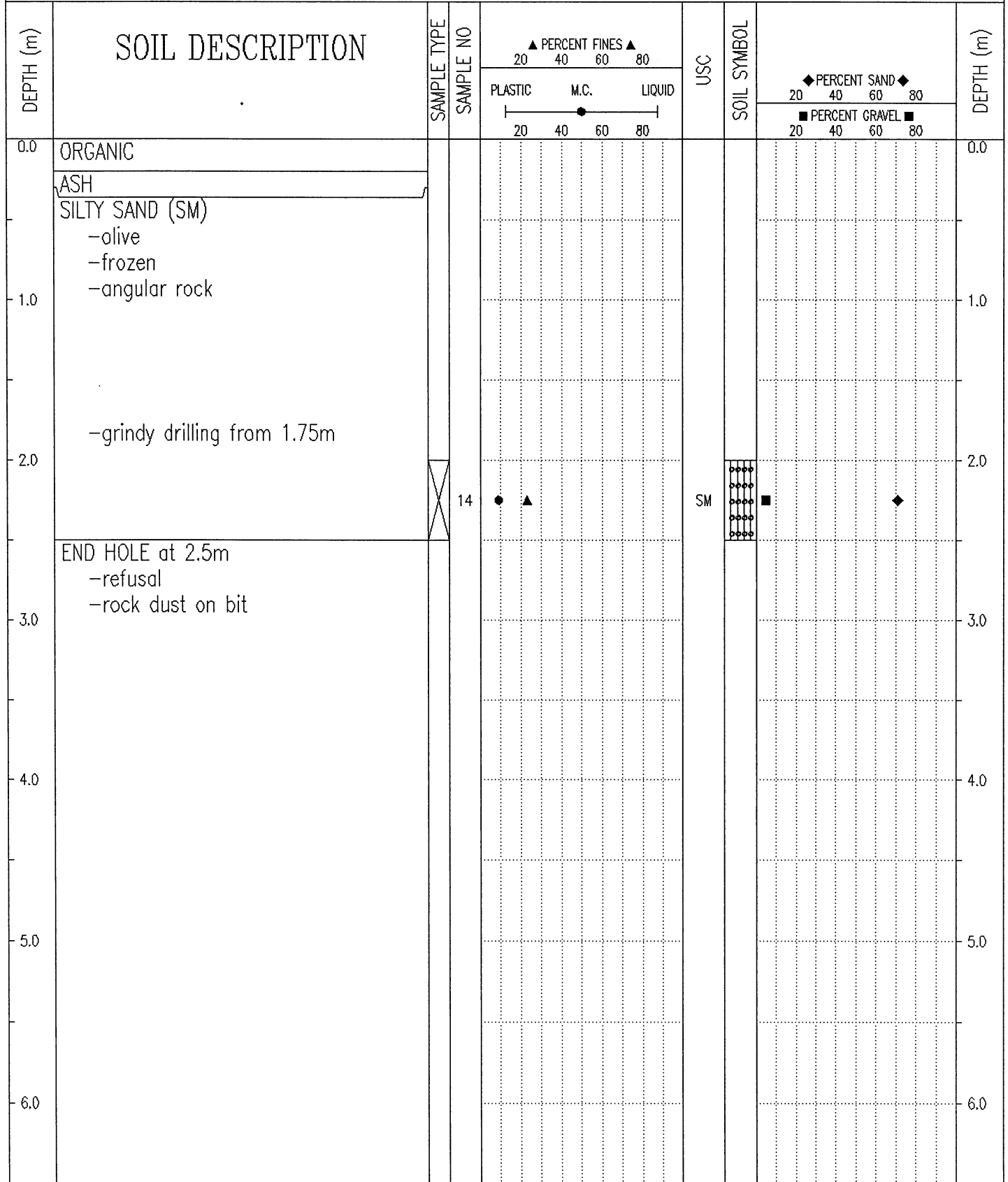
COMPLETE: 98/11/27

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-254
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+449 CENTRELINE	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: 98/11/26
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-265
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+450 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE



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Fig. No:

COMPLETION DEPTH: 2.5 m
COMPLETE: 98/11/26

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-317
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1795+500	ELEVATION: 0.00 (m)

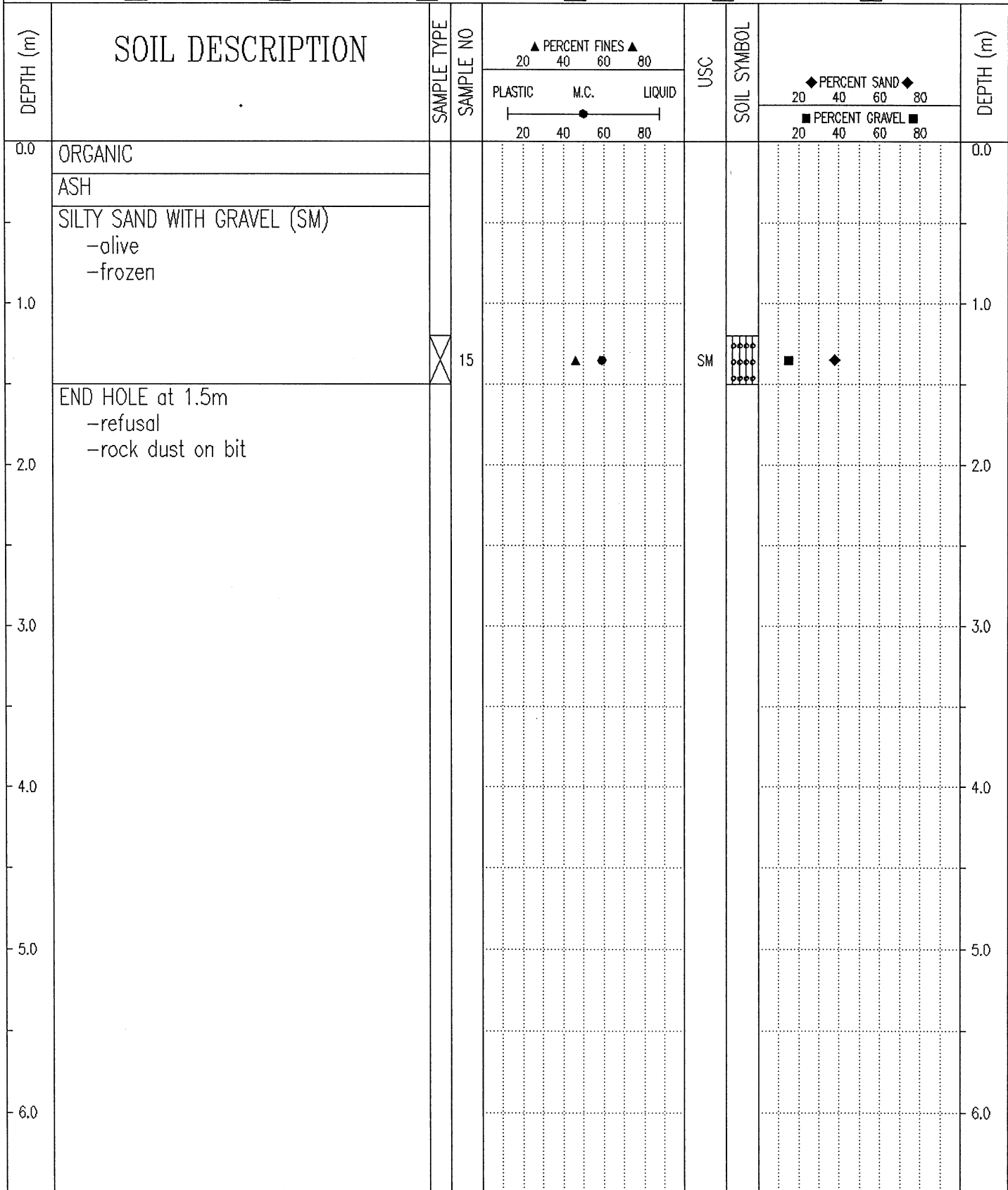
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■	PERCENT SAND ◆	
0.0	ORGANIC MATERIAL -smooth drilling									0.0	
1.0	SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice									1.0	
1.5	-first refusal at 1.5m		650	●	▲		SM	■	◆		
2.0	END HOLE at 1.6m -refusal -rock dust on bit									2.0	
3.0										3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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LOGGED BY: CC	COMPLETION DEPTH: 1.6 m
REVIEWED BY:	COMPLETE: 95/07/27
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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-266
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+500 20M RT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



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LOGGED BY: G.C.	COMPLETION DEPTH: 1.5 m
REVIEWED BY:	COMPLETE: 98/11/26
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SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-268
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1795+500 20M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER
	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE
		<input type="checkbox"/> CORE

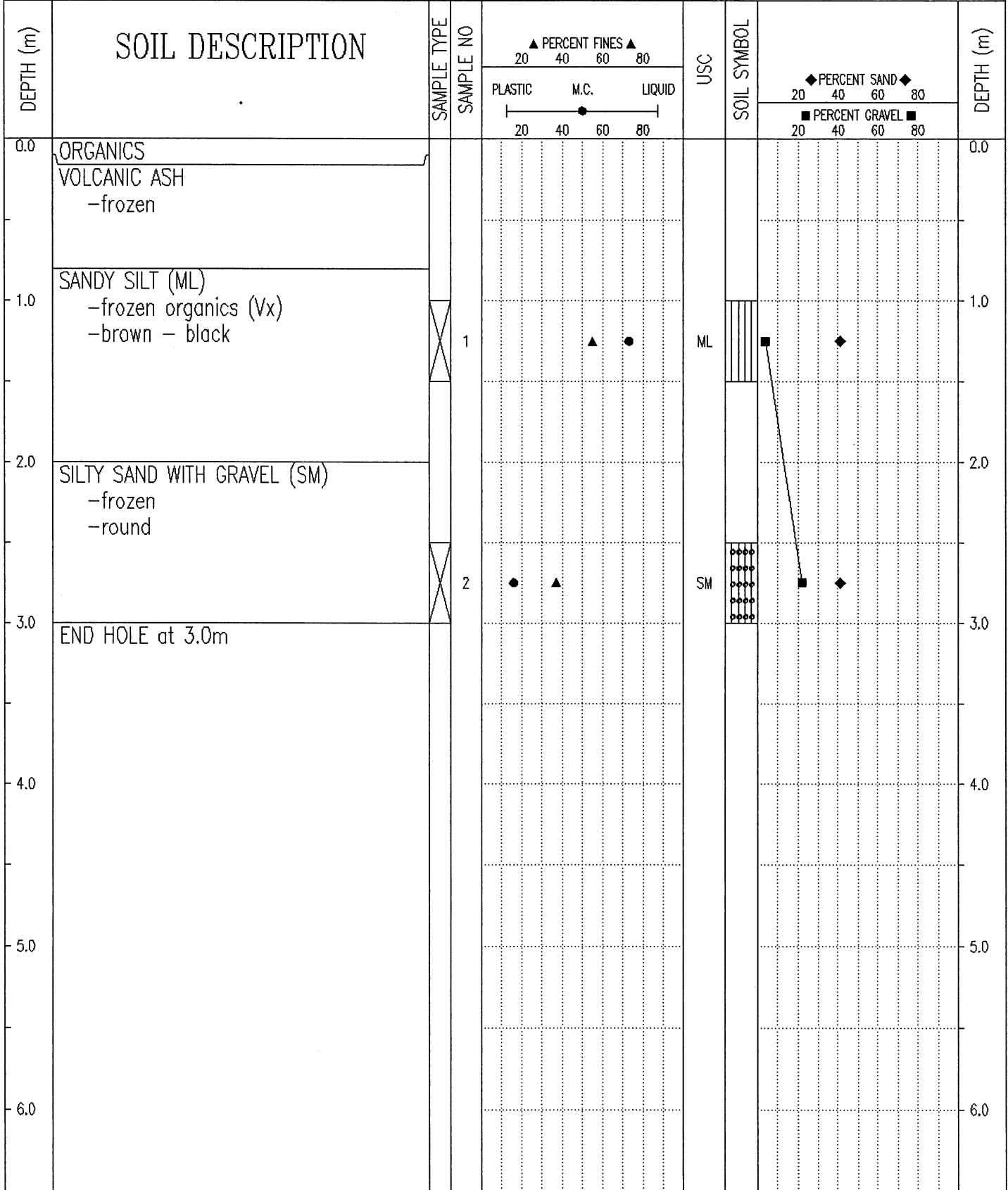
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			PERCENT GRAVEL	DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60		
0.0	ORGANIC SANDY SILT WITH VOLCANIC ASH -frozen												0.0
1.0			18										1.0
1.4	SANDY GRAVEL -wet END HOLE at 1.4m -refusal -moved 5m downchain - refusal at 1.5m -rock dust on bit												1.4
2.0													2.0
3.0													3.0
4.0													4.0
5.0													5.0
6.0													6.0

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Fig. No:

COMPLETION DEPTH: 1.5 m
COMPLETE: 98/11/27

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 500-253
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
D-4 CAT B40	LOCATION: 1795+548 CENTRELINE	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: G.C.	COMPLETION DEPTH: 3.0 m
REVIEWED BY:	COMPLETE: 98/11/26
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		ENGINEERING CAPITAL		TEST HOLE NO: 501-267								
SHAKWAK SEG 12 B		KM 1761-1799 A/H		Project No: 092-202101-0328								
D-4 CAT B-40		LOCATION: 1795+550 20M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	ORGANIC VOLCANIC ASH / SILT WITH ORGANICS -frozen - traces of (Vx)										0.0	
1.0											1.0	
2.0	SILTY SAND WITH GRAVEL (SM) -frozen -slow grindy drilling										2.0	
3.0		<input checked="" type="checkbox"/>	17	●	▲		SM	◆	■		3.0	
4.0	END HOLE at 3.5m -refusal -broken rock fragment on bit										4.0	
5.0											5.0	
6.0											6.0	
Government of Yukon Transportation Engineering				LOGGED BY: B.S. REVIEWED BY:		COMPLETION DEPTH: 3.5 m COMPLETE: 98/11/27		Fig. No: Page 1 of 1				

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-316
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1795+600	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	ORGANIC MATERIAL -smooth drilling									0.0	
1.0	SILT -brown -frozen -organics -stiffer drilling									1.0	
2.0	SANDY SILT (ML) -gray -frozen (Nf) -weathered rock -organics -hard grindy drilling	<input checked="" type="checkbox"/>	649	45	55	75	ML		◆	2.0	
3.0	END HOLE at 1.5m -refusal -rock dust on bit									3.0	
4.0										4.0	
5.0										5.0	
6.0										6.0	

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LOGGED BY: CC	COMPLETION DEPTH: 1.5 m
REVIEWED BY:	COMPLETE: 95/07/27
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SUBSURFACE EXPLORATION AND TEST REPORT		SHAKWAK PROJECT		TEST HOLE NO: 371-315									
ENGINEERING-CAPITAL		SEGMENT 12B		Project No: 092-202101-0328									
Drill: B40L 150mm SOLID STEM AUGER		LOCATION: 1795+950		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 ■				
				20	40	60	80		20	40	60	80	
				20	40	60	80		20	40	60	80	
0.0	ORGANIC MATERIAL -smooth drilling SILTY SAND -brown -damp												0.0
1.0													1.0
2.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 75mm material augered up -grindy drilling	<input checked="" type="checkbox"/>	646					GP	▲▲▲▲	◆	■		2.0
3.0	SILTY SAND (SM) -brown -moist -smoother drilling	<input checked="" type="checkbox"/>	647					SM	○○○○		■		3.0
4.0	SANDY SILT (ML) -brown -moist	<input checked="" type="checkbox"/>	648					ML			◆		4.0
5.0	END OF HOLE 4.5m												5.0
6.0													6.0

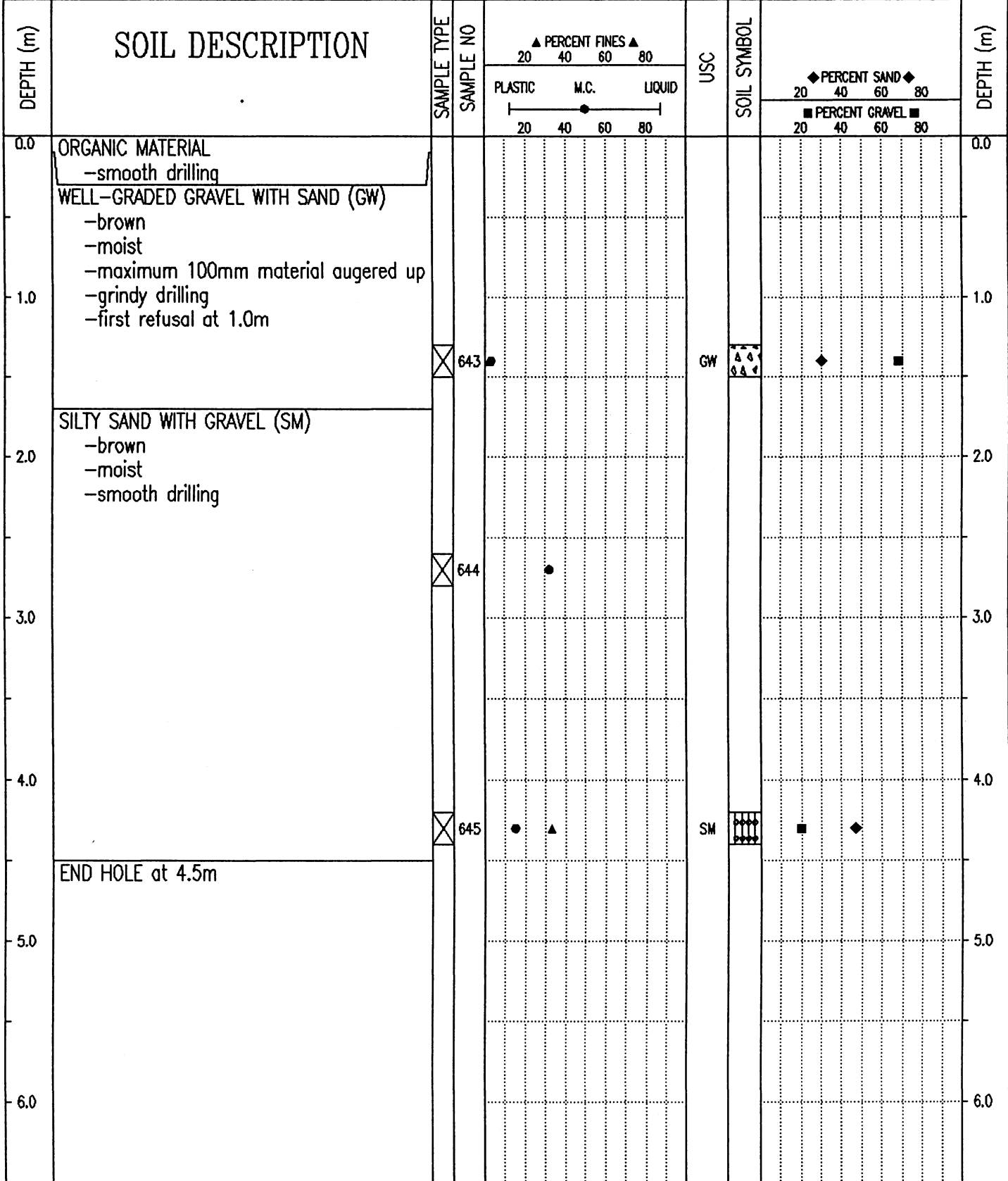
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Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/07/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-314
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1796+050 o/s 7m Lt.	ELEVATION: 0.00 (m)

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

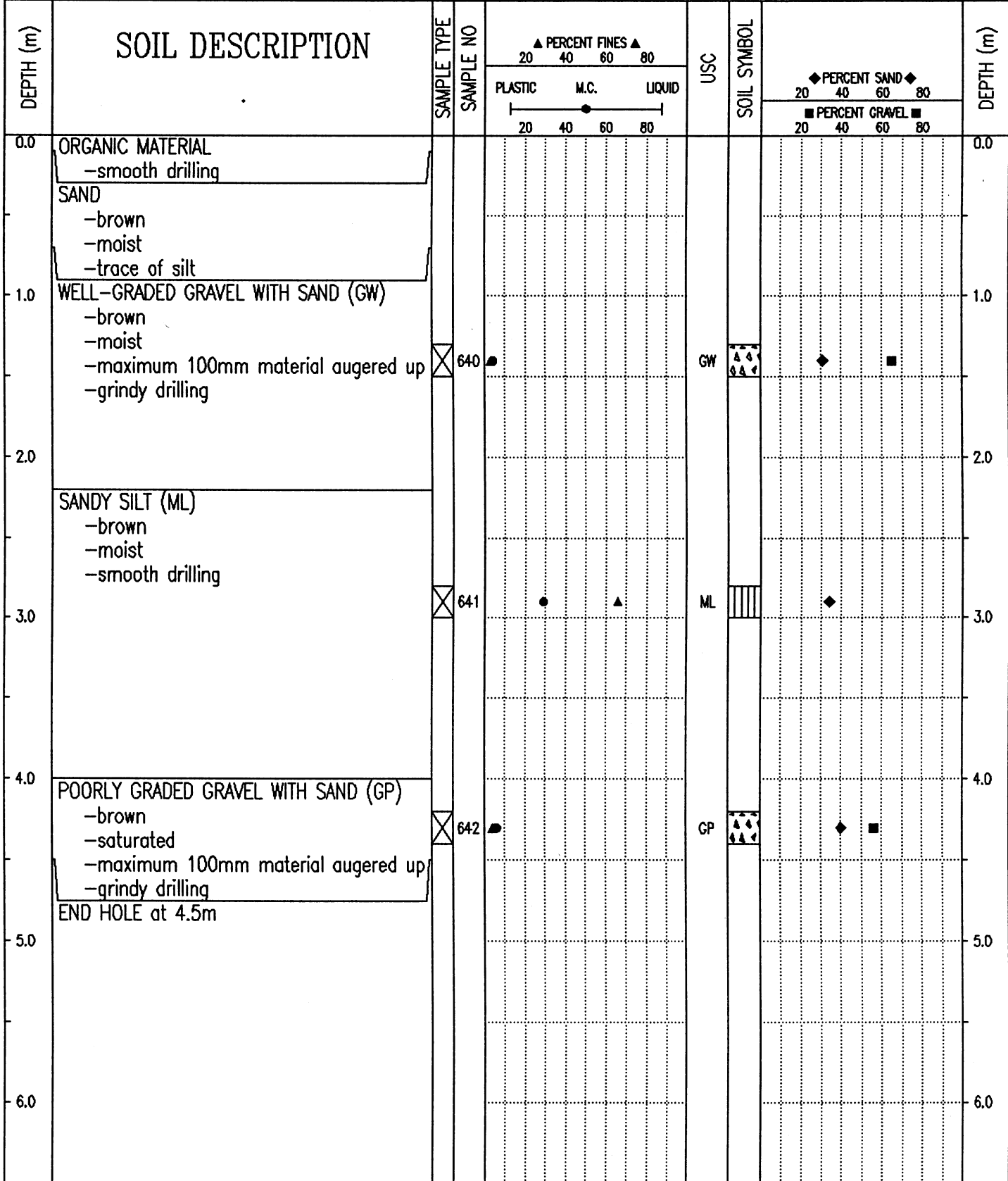


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LOGGED BY: CC	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 95/07/27
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-313
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1796+150 o/s 8m Lt.	ELEVATION: 0.00 (m)

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



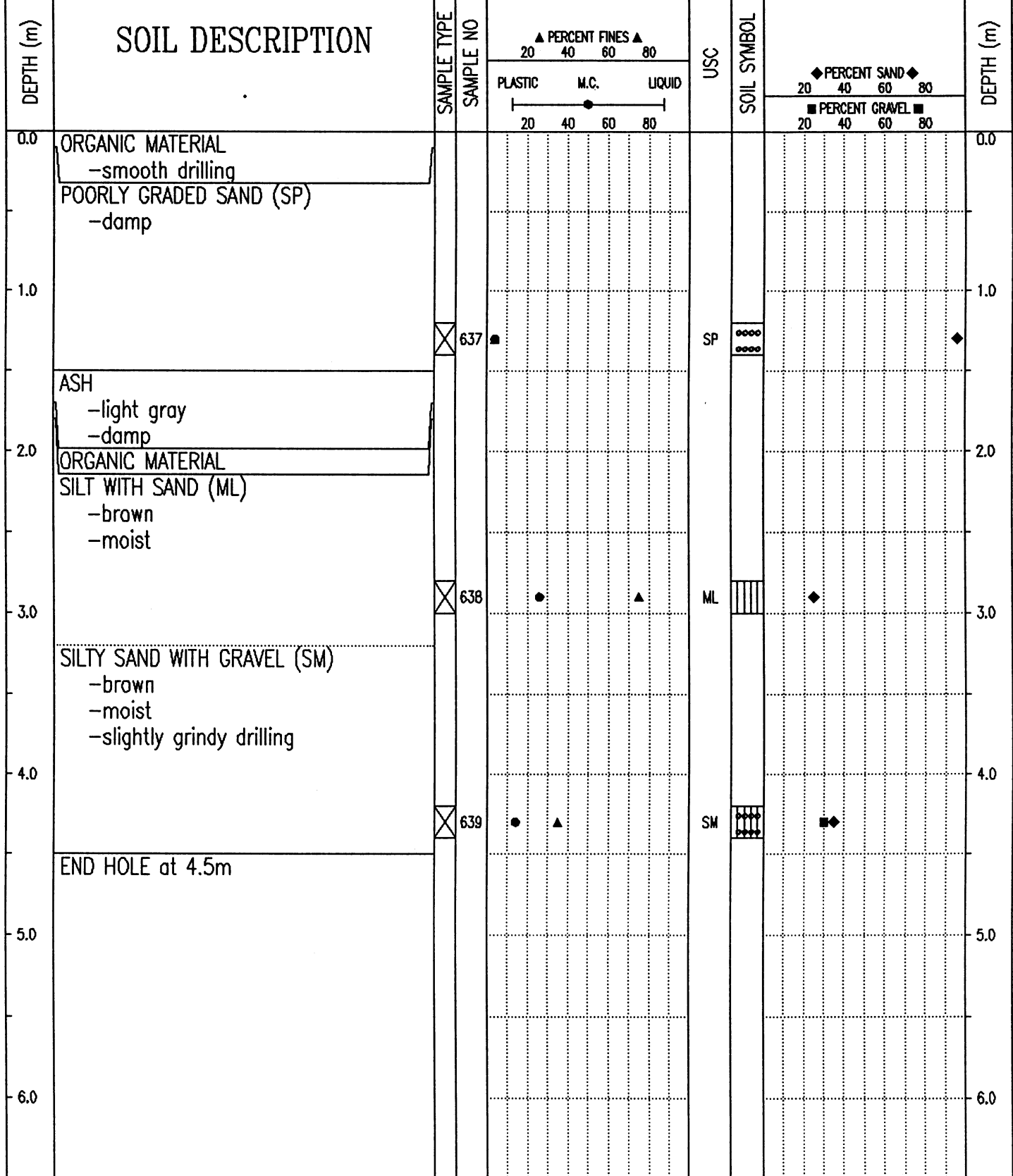
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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.5 m
COMPLETE: 95/07/27

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-312
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1796+250 o/s 8m Lt.	ELEVATION: 0.00 (m)

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

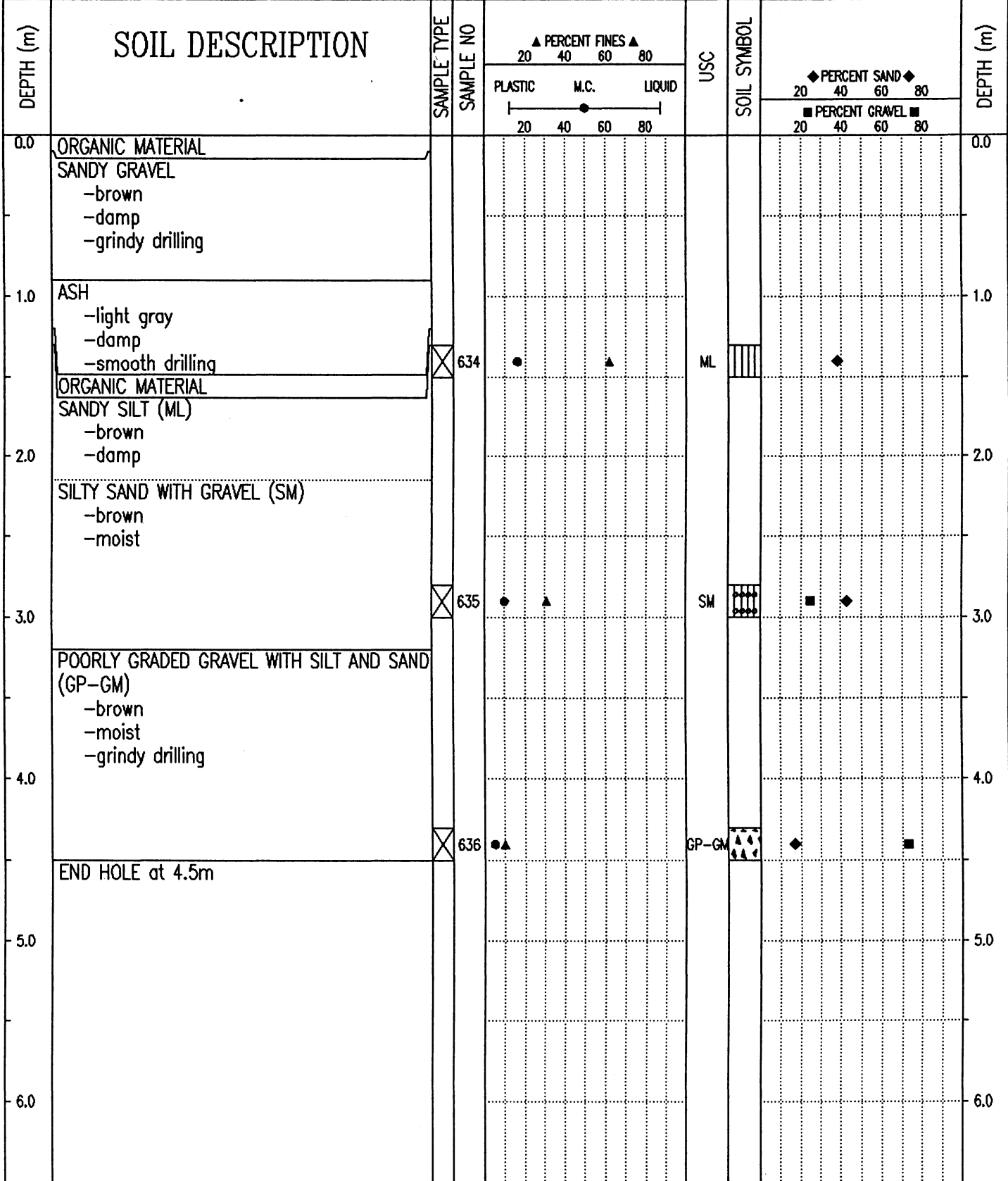


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LOGGED BY: CC	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 95/07/27
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-311
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1796+350 o/s 9m Lt.	ELEVATION: 0.00 (m)

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



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Fig. No:
COMPLETION DEPTH: 4.5 m
COMPLETE: 95/07/27
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SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-310
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1796+455 o/s 12m Lt.	ELEVATION: 0.00 (m)

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

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	ORGANIC MATERIAL -smooth drilling											0.0	
	SILTY SAND -brown -damp												
1.0	ASH -light gray -damp											1.0	
	ORGANIC MATERIAL												
2.0	SILTY SAND -brown -moist -trace of gravel											2.0	
	POORLY GRADED SAND WITH SILT (SP-SM) -brown -moist												
3.0		⊗	632	●▲			SP-SM	○○○○			◆	3.0	
	SILTY SAND WITH GRAVEL (SM) -brown -saturated -grindy drilling												
4.0		⊗	633	▲			SM	○○○○	■		◆	4.0	
5.0	END HOLE at 4.5m											5.0	
6.0												6.0	

Government of Yukon Transportation Engineering	LOGGED BY: CC	COMPLETION DEPTH: 4.5 m
	REVIEWED BY:	COMPLETE: 95/07/27
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	SHAKWAK PROJECT	TEST HOLE NO: 371-309
ENGINEERING-CAPITAL	SEGMENT 12B	Project No: 092-202101-0328
Drill: B40L 150mm SOLID STEM AUGER	LOCATION: 1796+550 o/s 6m Lt.	ELEVATION: 0.00 (m)

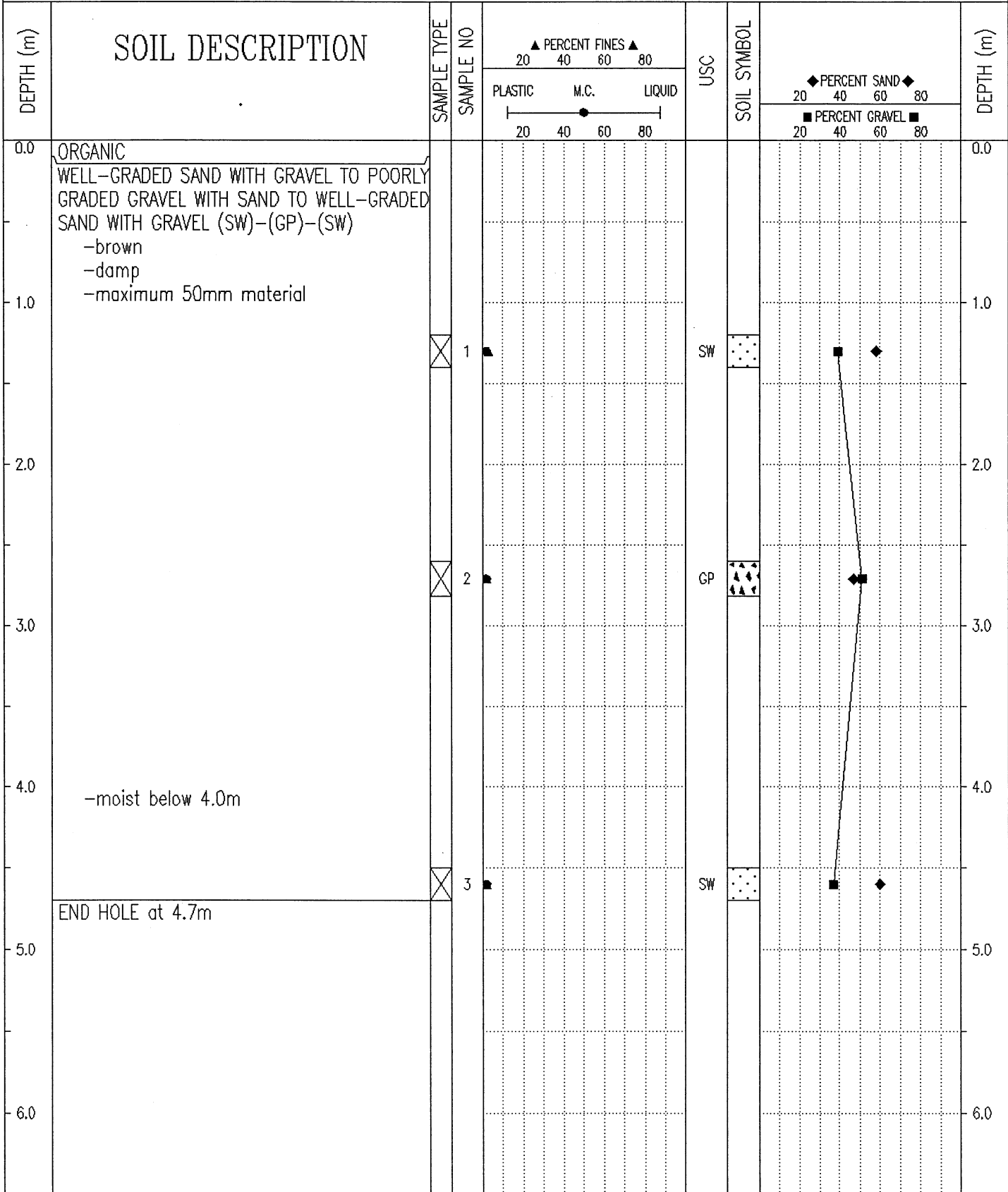
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		DEPTH (m)
				20	40	60			80	20	40	60	
0.0	GRAVELLY ORGANIC MATERIAL -smooth drilling											0.0	
1.0	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 100mm material augered up -grindy drilling											1.0	
2.0		<input checked="" type="checkbox"/>	629				GP	▲▲▲	◆	■		2.0	
3.0		<input checked="" type="checkbox"/>	630				GP	▲▲▲	◆	■		3.0	
4.0		<input checked="" type="checkbox"/>	631				GP	▲▲▲	◆	■		4.0	
5.0	END HOLE at 4.5m											5.0	
6.0												6.0	

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LOGGED BY: CC	COMPLETION DEPTH: 4.5 m
REVIEWED BY:	COMPLETE: 95/07/27
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 499-242
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1796+700 9M LT	ELEVATION: 0:00 (m)
SAMPLE TYPE	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE	



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LOGGED BY: W.E.

REVIEWED BY:

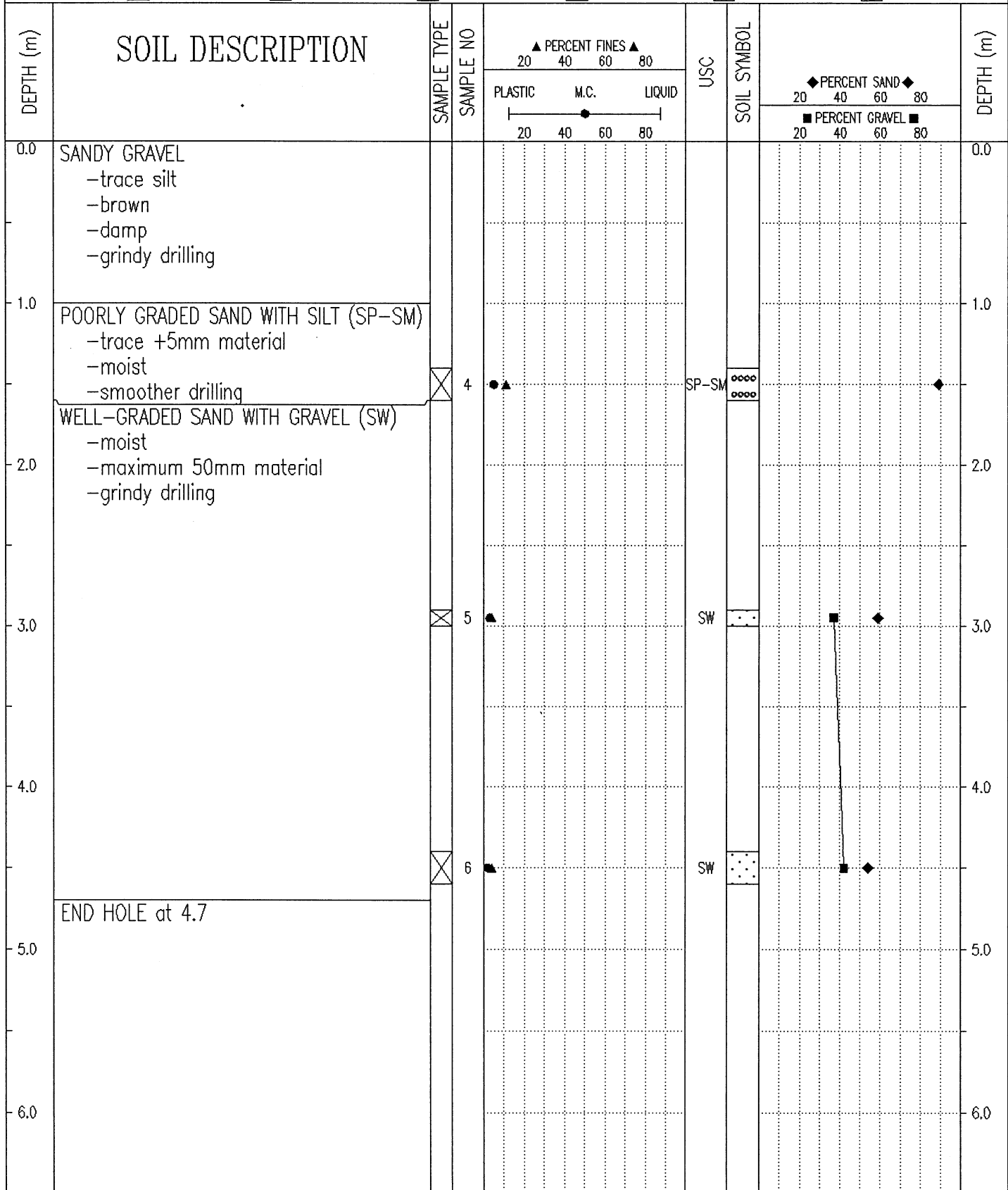
Fig. No:

COMPLETION DEPTH: 4.7 m

COMPLETE: 98/11/10

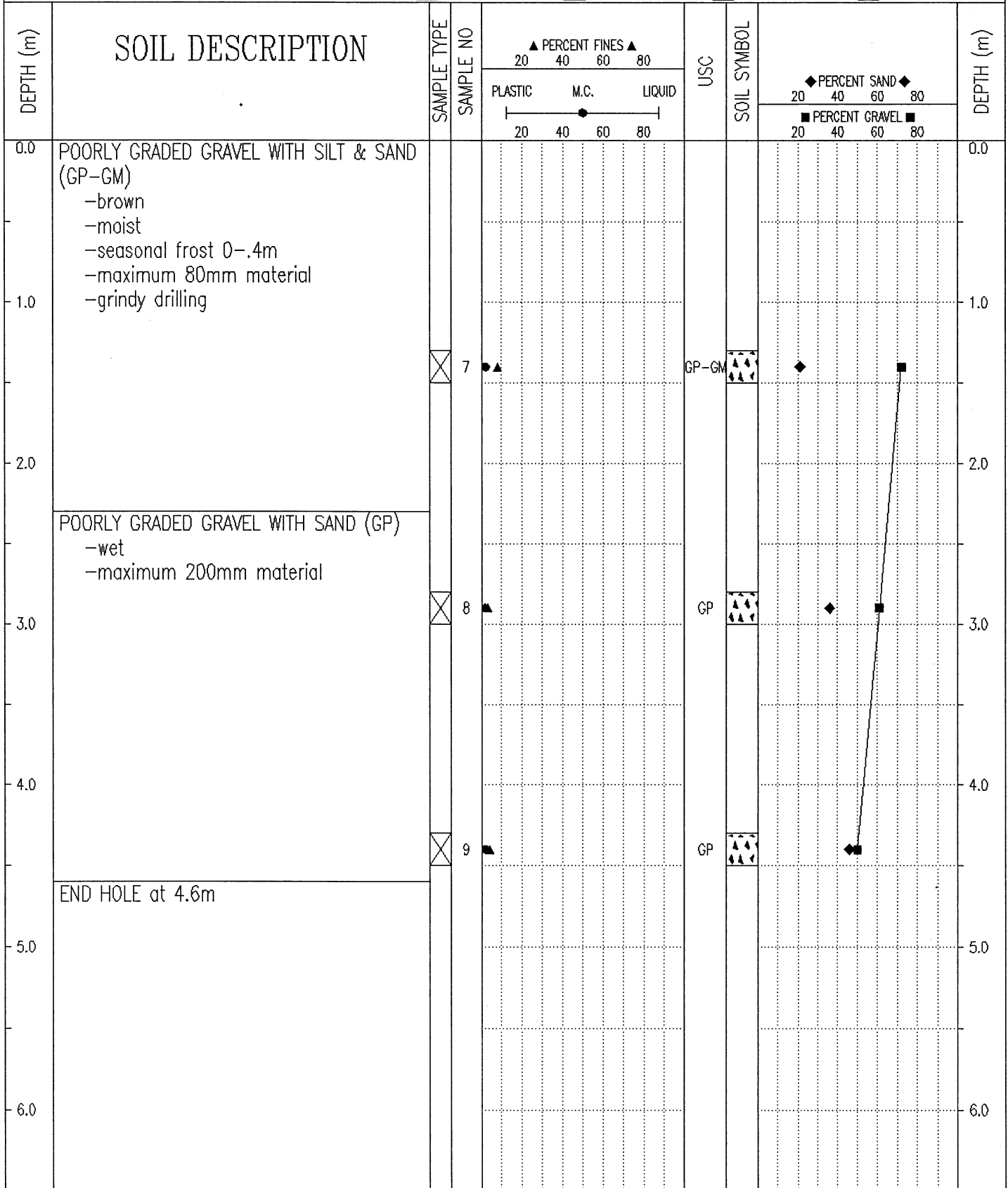
Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 499-243
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1796+750 7M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon Transportation Engineering	LOGGED BY: W.E.	COMPLETION DEPTH: 4.7 m
	REVIEWED BY:	COMPLETE: 98/11/10
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 499-244
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1796+800 6M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

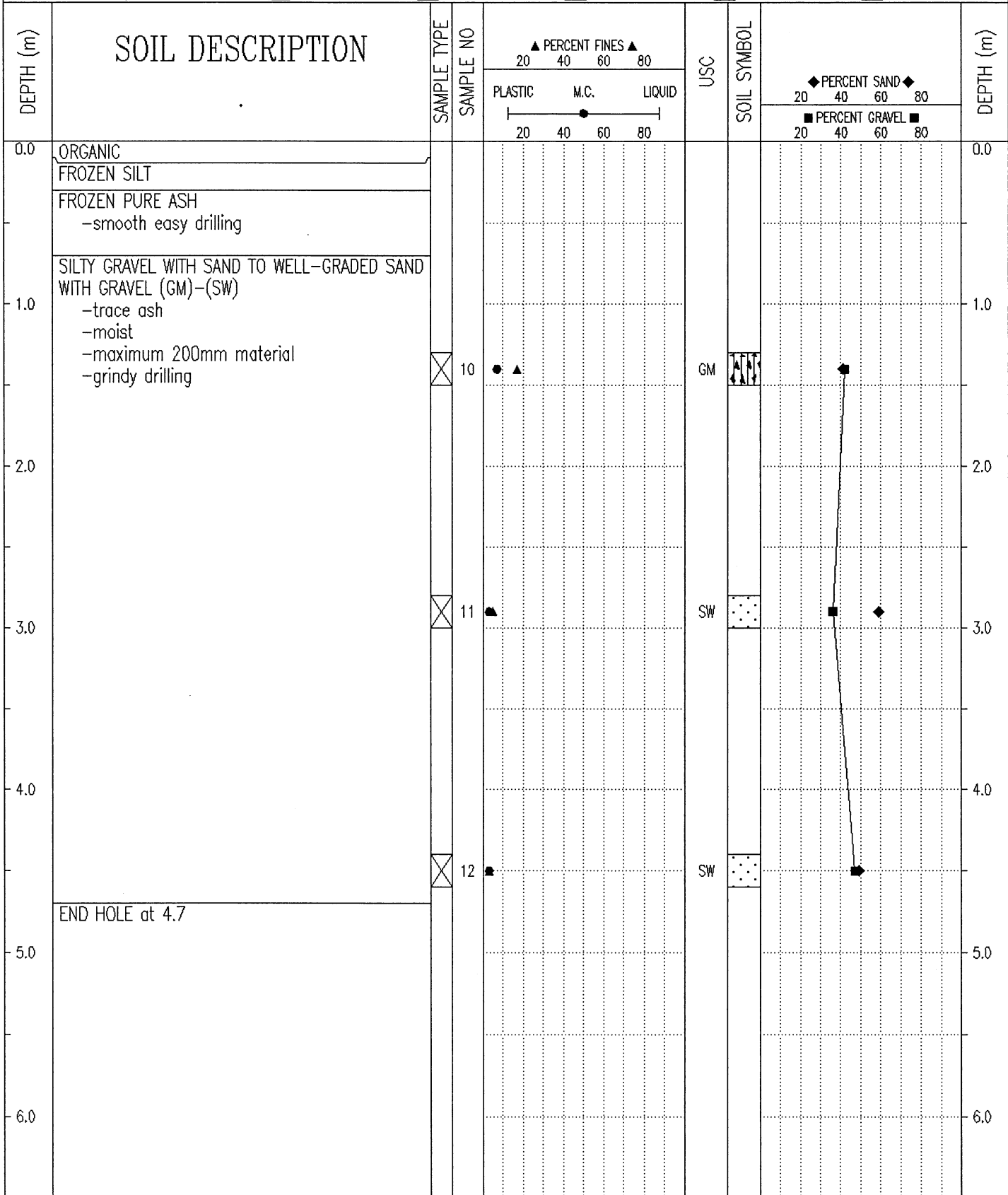


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LOGGED BY: W.E.	COMPLETION DEPTH: 4.6 m
REVIEWED BY:	COMPLETE: 98/11/10
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 499-245
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1796+873 8M LT	ELEVATION: 0.00 (m)

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

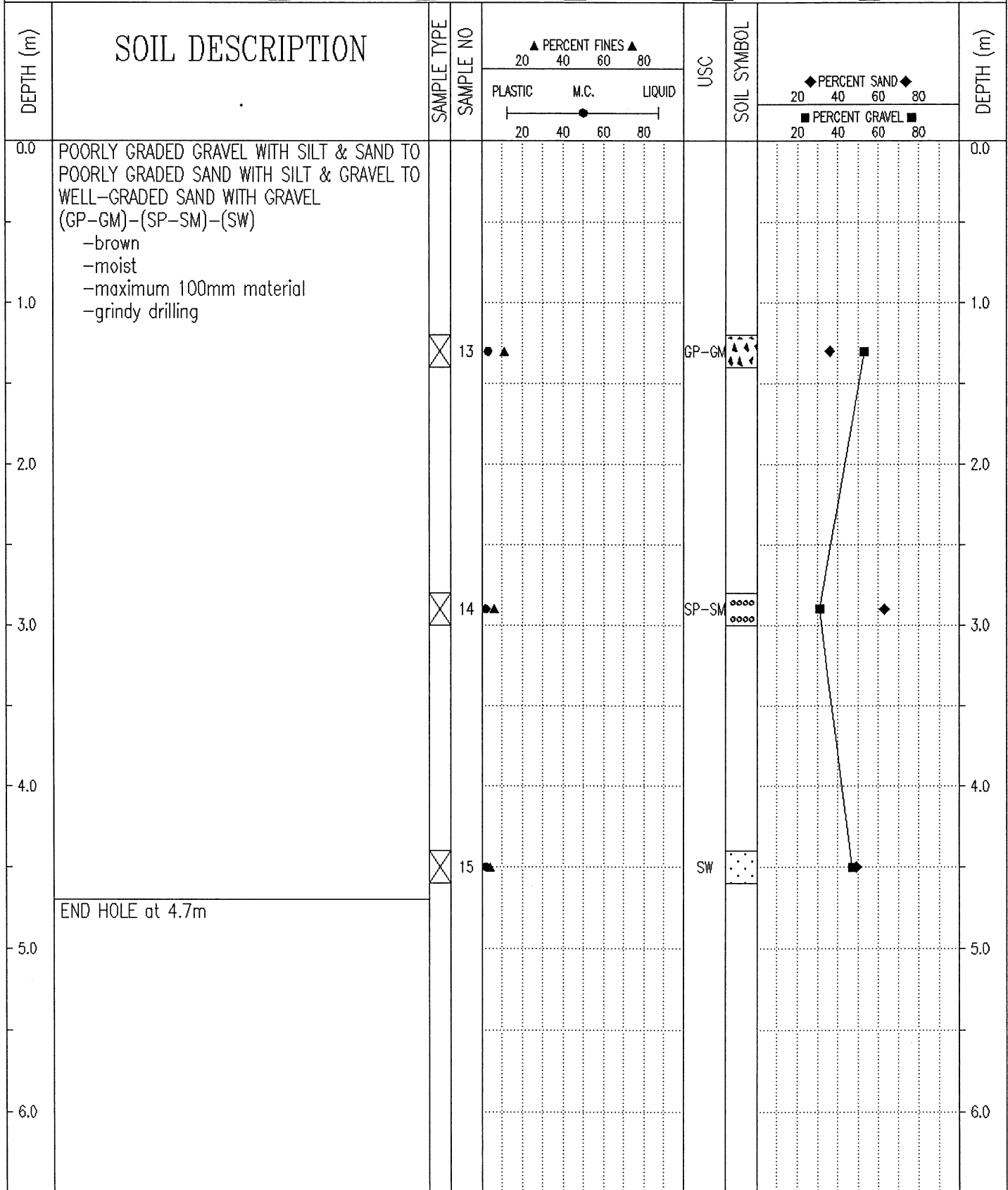


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LOGGED BY: W.E.
REVIEWED BY:
Fig. No:

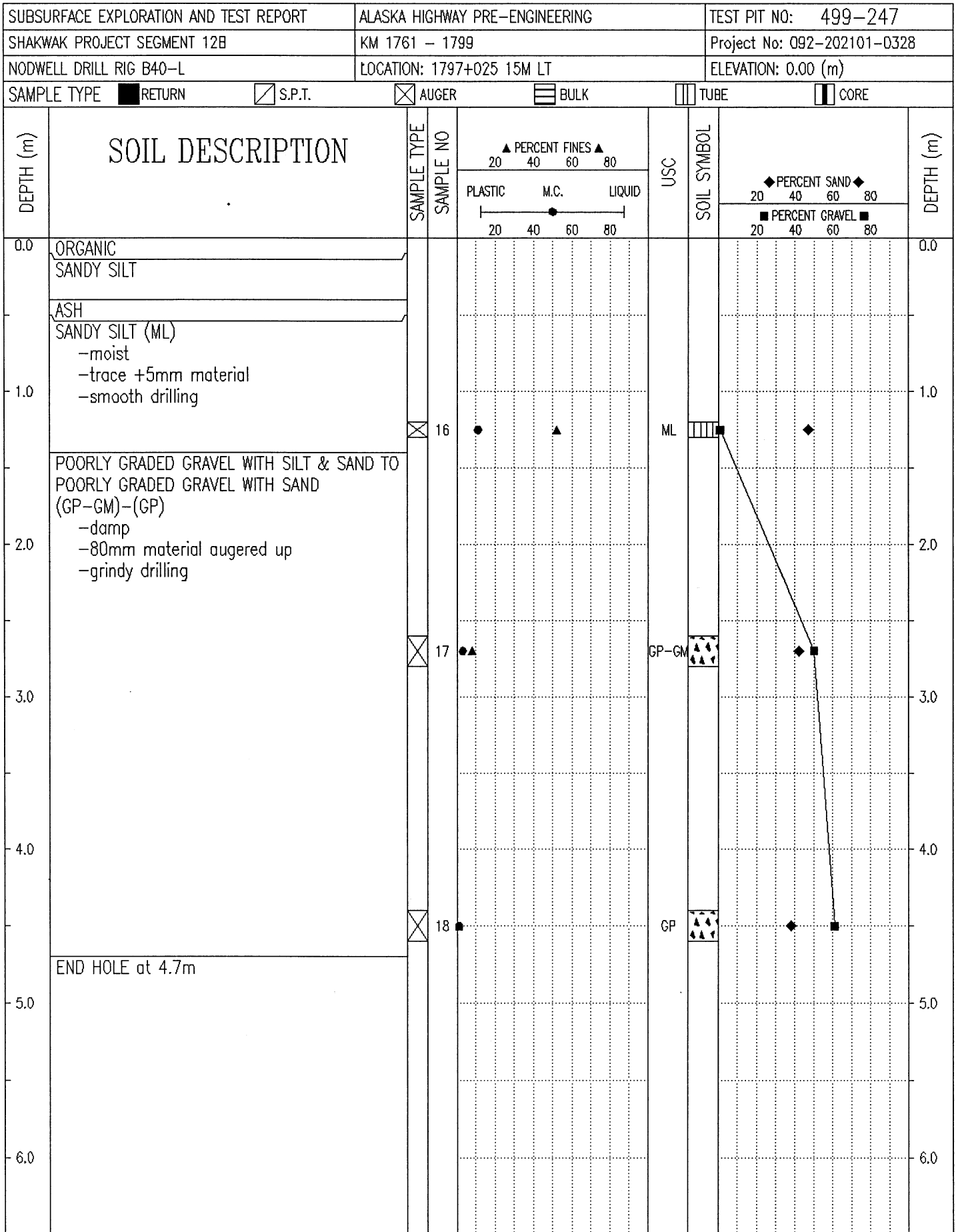
COMPLETION DEPTH: 4.7 m
COMPLETE: 98/11/10

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 499-246
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1796+950 6M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE



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REVIEWED BY:	COMPLETE: 98/11/10
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REVIEWED BY:

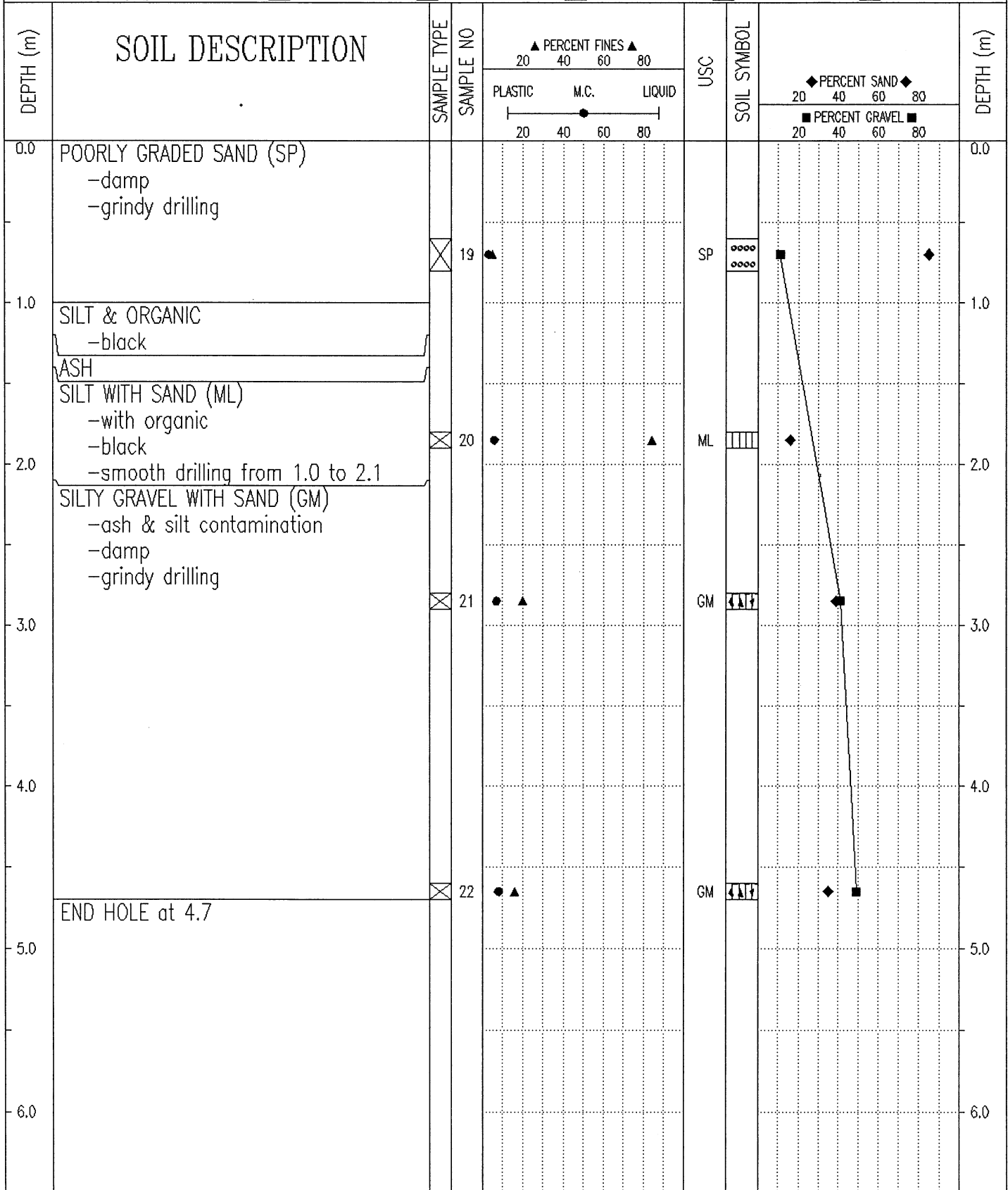
Fig. No:

COMPLETION DEPTH: 4.7 m

COMPLETE: 98/11/10

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SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 499-248
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1797+100 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: W.E.	COMPLETION DEPTH: 4.7 m
REVIEWED BY:	COMPLETE: 98/11/10
Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY PRE-ENGINEERING		TEST PIT NO: 499-249								
SHAKWAK PROJECT SEGMENT 12B		KM 1761 - 1799		Project No: 092-202101-0328								
NODWELL DRILL RIG B40-L		LOCATION: 1797+175 7M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE		RETURN		S.P.T.								
		AUGER		BULK								
		TUBE		CORE								
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	GRAVELLY SAND -trace +5mm material -grindy drilling											0.0
	ASH -smooth drilling											
1.0	ORGANIC -trace silt -black											1.0
	SILT -grey -moist -trace +5mm material											
2.0	SILTY SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SILT & SAND (SM)-(GP-GM) -light brown -damp -grindy drilling											2.0
3.0			23				SM					3.0
4.0			24				GP-GM					4.0
5.0	END HOLE at 4.7m											5.0
6.0												6.0

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REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.7 m
COMPLETE: 98/11/10

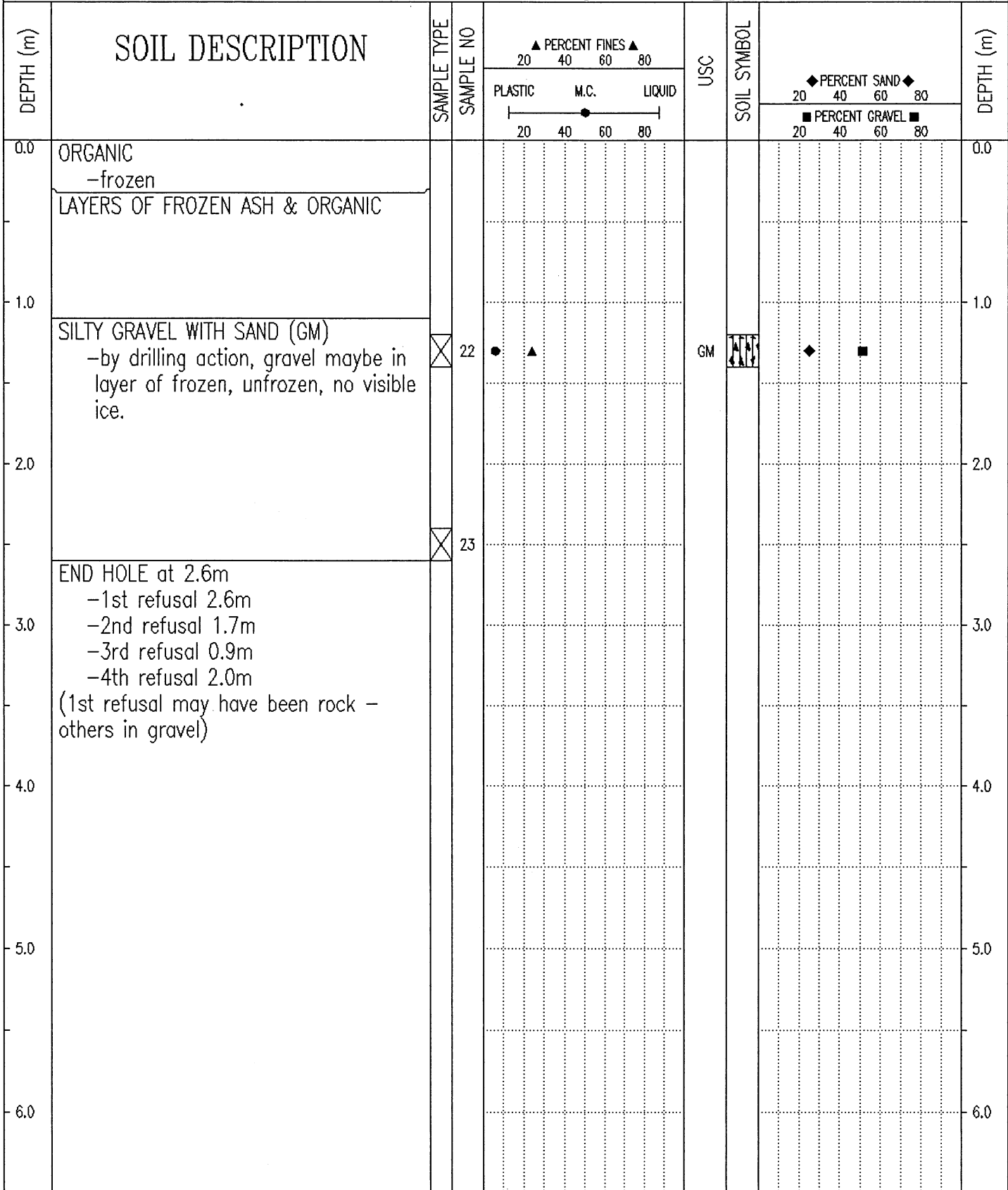
SUBSURFACE EXPLORATION AND TEST REPORT		ALASKA HIGHWAY PRE-ENGINEERING		TEST HOLE NO: 499-250								
SHAKWAK PROJECT SEGMENT 12B		KM 1761 - 1799		Project No: 092-202101-0328								
NODWELL DRILL RIG B40-L		LOCATION: 1797+252 7M LT		ELEVATION: 0.00 (m)								
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE												
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			DEPTH (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	SANDY GRAVEL -grindy drilling										0.0	
	FROZEN SILTY SAND											
	ASH											
1.0	SILT WITH SAND (ML) -organic -trace gravel -smooth drilling	<input checked="" type="checkbox"/>	25	●	▲		ML	▨	◆		1.0	
2.0	POORLY GRADED GRAVEL WITH SILT & SAND TO WELL-GRADED SAND WITH SILT & GRAVEL (GP-GM)-(SW-SM) -damp -grindy drilling	<input checked="" type="checkbox"/>	26	●	▲		GP-GM	▨	◆	■	2.0	
3.0											3.0	
4.0											4.0	
5.0	END HOLE at 4.7m	<input checked="" type="checkbox"/>	27	●	▲		SW-SM	▨	◆	■	5.0	
6.0											6.0	

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Fig. No:

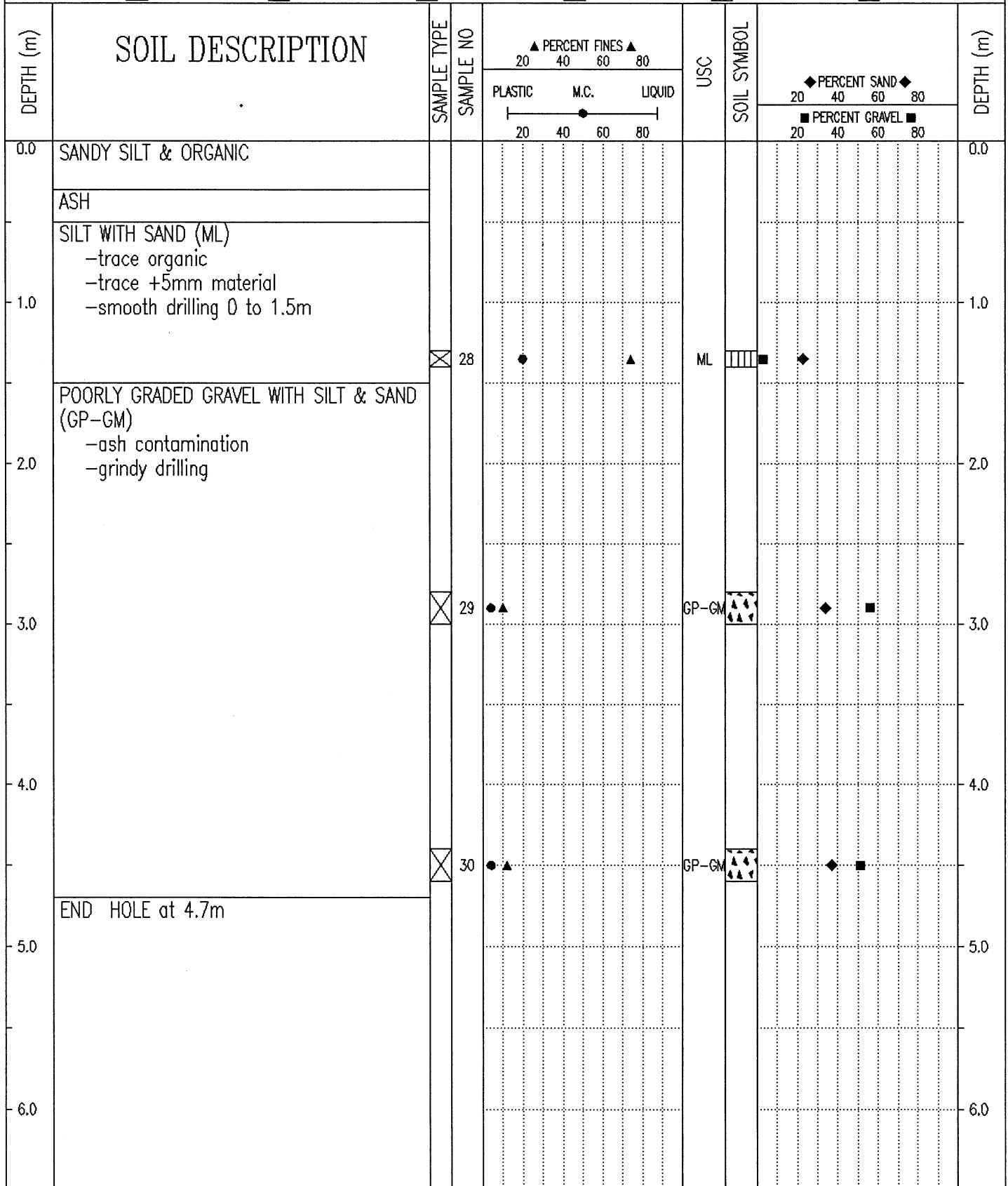
COMPLETION DEPTH: 4.7 m
COMPLETE: 98/11/10

SUBSURFACE EXPLORATION AND TEST REPORT	ENGINEERING CAPITAL	TEST HOLE NO: 501-272
SHAKWAK SEG 12 B	KM 1761-1799 A/H	Project No: 092-202101-0328
D-4 CAT B-40	LOCATION: 1795+300 25M 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: B.S.	COMPLETION DEPTH: 2.6 m
	REVIEWED BY:	COMPLETE: 98/11/27
	Fig. No:	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST HOLE NO: 499-251
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1797+352 11M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		

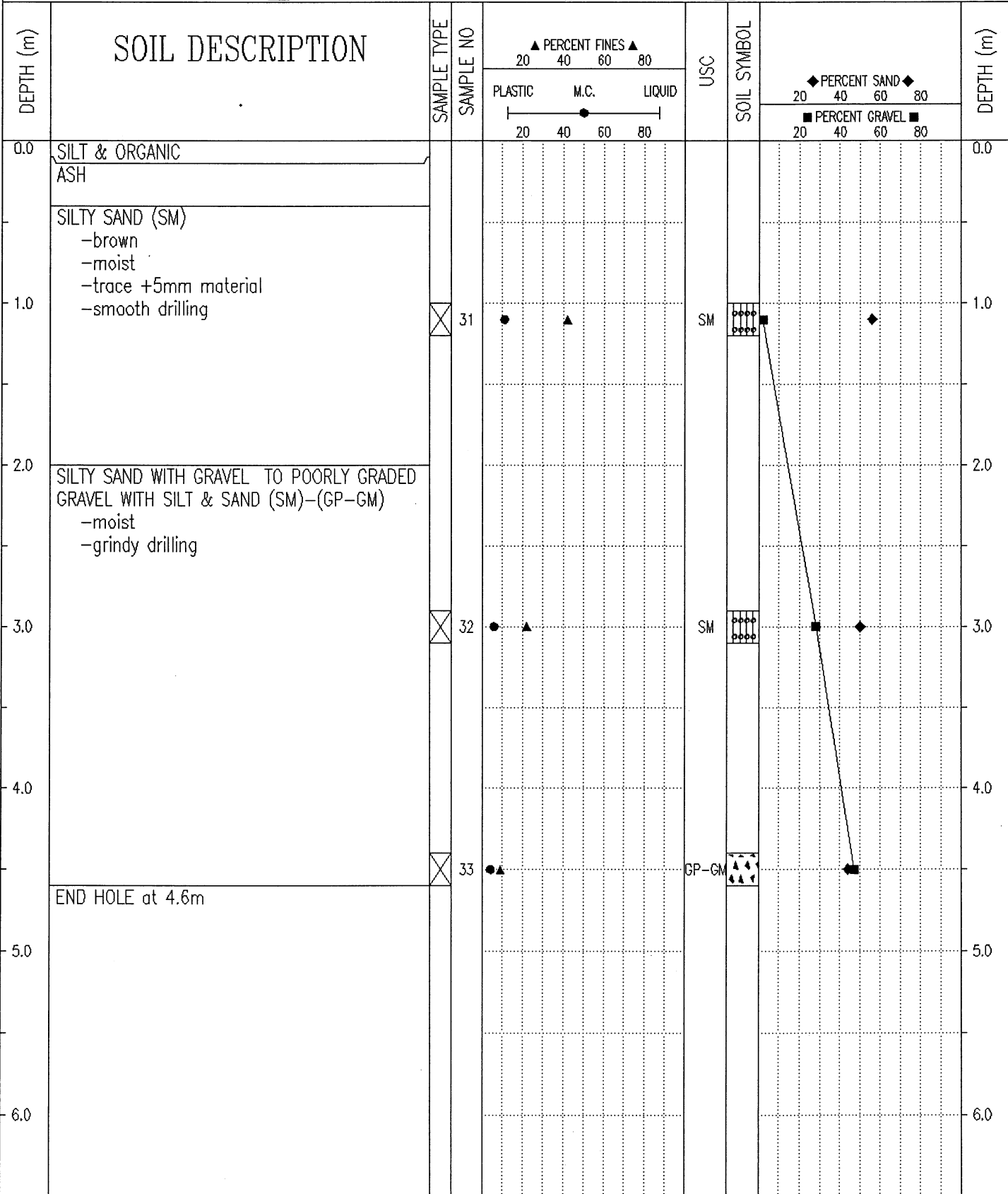


Government of Yukon
Transportation Engineering

LOGGED BY: W.E.
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 4.7 m
COMPLETE: 98/11/10

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	TEST PIT NO: 499-252
SHAKWAK PROJECT SEGMENT 12B	KM 1761 - 1799	Project No: 092-202101-0328
NODWELL DRILL RIG B40-L	LOCATION: 1797+455 9M LT	ELEVATION: 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE		



Government of Yukon
Transportation Engineering

LOGGED BY: W.E.	COMPLETION DEPTH: 4.6 m
REVIEWED BY:	COMPLETE: 98/11/10
Fig. No:	Page 1 of 1

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

KM 1787.5 TO KM 1797.6
YUKON 1999-2000

ALASKA HIGHWAY #1

Highway Construction
Km 1787.5 to Km 1797.6
Alaska Highway #1
Yukon 1999-2000
Book 2 of 2

This Data Package prepared for project viewing:

January, 1999

Transportation Engineering Branch
Geotechnical Services
461 Range Road
Whitehorse, Yukon

GR-01-085

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION
KM 1787.5 TO KM 1797.6
YUKON 1999-2000

ALASKA HIGHWAY #1

CENTRELINE TESTING CONTINUED
Km 1787.5 to Km 1797.6
ALASKA HIGHWAY

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION
KM 1787.5 TO KM 1797.6
YUKON 1999-2000

ALASKA HIGHWAY #1

CENTRELINE TESTING CONTINUED
Km 1787.5 to Km 1797.6
ALASKA HIGHWAY

PROJECT NUMBER: 092-202101-0328-194 **HOLE NUMBER:** 371-309
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 12B
DRILL UNIT: 36-002
HOLE LOCATION: 1796+550 O/S 6M LT
LOGGED BY: CC **DATE COMPLETED:** 95.07.27

FIELD NO: 629
LAB NO: 856
DEPTH: 1.4-1.6
TYPE: AUGER

FIELD NO: 630
LAB NO: 857
DEPTH: 2.6-2.8
TYPE: AUGER

FIELD NO: 631
LAB NO: 858
DEPTH: 4.3-4.5
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	67
31.5	--
25.0	46
20.0	42
12.5	38
10.0	36
5.0	31
2.5	26
2.0	--
1.25	19
0.840	--
0.630	9
0.420	--
0.315	2
0.160	1
0.150	--
0.080	1

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	87
31.5	--
25.0	74
20.0	68
12.5	58
10.0	54
5.0	43
2.5	35
2.0	--
1.25	26
0.840	--
0.630	15
0.420	--
0.315	6
0.160	4
0.150	--
0.080	3

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	80
31.5	--
25.0	63
20.0	57
12.5	48
10.0	45
5.0	36
2.5	29
2.0	--
1.25	22
0.840	--
0.630	14
0.420	--
0.315	6
0.160	3
0.150	--
0.080	3

M.C. (%): 2

M.C. (%): 3

M.C. (%): 5

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

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

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

% GRAVEL: 69
% SAND: 30
% FINES: 1

% GRAVEL: 57
% SAND: 40
% FINES: 3

% GRAVEL: 64
% SAND: 33
% FINES: 3

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-310
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1796+455 O/S 12M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 632
 LAB NO: 859
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 633
 LAB NO: 860
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	96
0.420	--
0.315	61
0.160	24
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	90
10.0	85
5.0	76
2.5	69
2.0	--
1.25	62
0.840	--
0.630	55
0.420	--
0.315	38
0.160	21
0.150	--
0.080	14

M.C. (%): 5

M.C. (%): 11

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

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

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

% GRAVEL: 24
 % SAND: 62
 % FINES: 14

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

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 **HOLE NUMBER:** 371-311
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 12B
DRILL UNIT: 36-002
HOLE LOCATION: 1796+350 O/S 9M LT
LOGGED BY: CC **DATE COMPLETED:** 95.07.27

FIELD NO: 634
LAB NO: 861
DEPTH: 1.3-1.5
TYPE: AUGER

FIELD NO: 635
LAB NO: 862
DEPTH: 2.8-3.0
TYPE: AUGER

FIELD NO: 636
LAB NO: 863
DEPTH: 4.3-4.5
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	--
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	91
0.150	--
0.080	62

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	84
12.5	77
10.0	77
5.0	75
2.5	73
2.0	--
1.25	72
0.840	--
0.630	70
0.420	--
0.315	59
0.160	47
0.150	--
0.080	31

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	75
31.5	--
25.0	44
20.0	38
12.5	33
10.0	31
5.0	27
2.5	25
2.0	--
1.25	23
0.840	--
0.630	21
0.420	--
0.315	18
0.160	14
0.150	--
0.080	10

M.C. (%): 16

M.C. (%): 10

M.C. (%): 5

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

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

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

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

% GRAVEL: 25
% SAND: 43
% FINES: 31

% GRAVEL: 73
% SAND: 17
% FINES: 10

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

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

PROJECT NUMBER: 092-202101-0328-194 **HOLE NUMBER:** 371-312
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 12B
DRILL UNIT: 36-002
HOLE LOCATION: 1796+250 O/S 8M LT
LOGGED BY: CC **DATE COMPLETED:** 95.07.27

FIELD NO: 637
LAB NO: 864
DEPTH: 1.2-1.4
TYPE: AUGER

FIELD NO: 638
LAB NO: 865
DEPTH: 2.8-3.0
TYPE: AUGER
 ORGANICS

FIELD NO: 639
LAB NO: 866
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	99
2.0	--
1.25	99
0.840	--
0.630	90
0.420	--
0.315	42
0.160	10
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	100
0.840	--
0.630	100
0.420	--
0.315	98
0.160	93
0.150	--
0.080	75

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	77
12.5	75
10.0	73
5.0	70
2.5	68
2.0	--
1.25	66
0.840	--
0.630	64
0.420	--
0.315	54
0.160	44
0.150	--
0.080	35

M.C. (%): 4

M.C. (%): 26

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: 96
% FINES: 4

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

% GRAVEL: 30
% SAND: 35
% FINES: 35

CLASSIFICATION:
 POORLY GRADED
 SAND (SP)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-313
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1796+150 O/S 8M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 640
 LAB NO: 867
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 641
 LAB NO: 868
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 642
 LAB NO: 869
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	68
20.0	59
12.5	51
10.0	46
5.0	35
2.5	29
2.0	--
1.25	26
0.840	--
0.630	24
0.420	--
0.315	16
0.160	8
0.150	--
0.080	3

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	97
0.160	86
0.150	--
0.080	66

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	81
12.5	64
10.0	58
5.0	44
2.5	34
2.0	--
1.25	25
0.840	--
0.630	18
0.420	--
0.315	10
0.160	6
0.150	--
0.080	4

M.C. (%): 4

M.C. (%): 29

M.C. (%): 6

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

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

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

% GRAVEL: 65
 % SAND: 31
 % FINES: 3

% GRAVEL: 0
 % SAND: 34
 % FINES: 66

% GRAVEL: 56
 % SAND: 40
 % FINES: 4

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 POORLY GRADED
 GRAVEL WITH SAND
 (GP)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-314
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1796+050 O/S 7M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 643
 LAB NO: 870
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 644
 LAB NO: 871
 DEPTH: 2.6-2.8
 TYPE: AUGER
 SEIVE LOST

FIELD NO: 645
 LAB NO: 872
 DEPTH: 4.2-4.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	69
20.0	57
12.5	46
10.0	42
5.0	32
2.5	25
2.0	--
1.25	18
0.840	--
0.630	10
0.420	--
0.315	4
0.160	2
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	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	91
80.0	--
50.0	100
31.5	--
25.0	91
20.0	91
12.5	85
10.0	84
5.0	80
2.5	76
2.0	--
1.25	71
0.840	--
0.630	62
0.420	--
0.315	49
0.160	38
0.150	--
0.080	33

M.C. (%): 3

M.C. (%): 32

M.C. (%): 15

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

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

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

% GRAVEL: 68
 % SAND: 30
 % FINES: 2

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 20
 % SAND: 47
 % FINES: 33

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 371-315
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1795+950
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+950
 LOGGED BY: C.C. DATE COMP 95-07-27

FIELD NO: 646	FIELD No. 647	FIELD No: 648
LAB NO: 873	LAB No. 874	LAB No: 875
DEPTH: 1.3-1.5	DEPTH 2.8-3.0	DEPTH: 4.3-4.5
TYPE: AUGER	TYPE AUGER	TYPE: AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%
25.0	83%	25.0	100%	25.0	100%
20.0	78%	20.0	100%	20.0	99%
12.5	66%	12.5	93%	12.5	99%
10.0	58%	10.0	91%	10.0	99%
5.0	45%	5.0	86%	5.0	97%
2.5	35%	2.5	79%	2.5	95%
1.25	27%	1.25	71%	1.25	93%
0.630	19%	0.630	61%	0.630	90%
0.315	9%	0.315	52%	0.315	85%
0.160	4%	0.160	48%	0.160	71%
0.080	2%	0.080	45%	0.080	54%

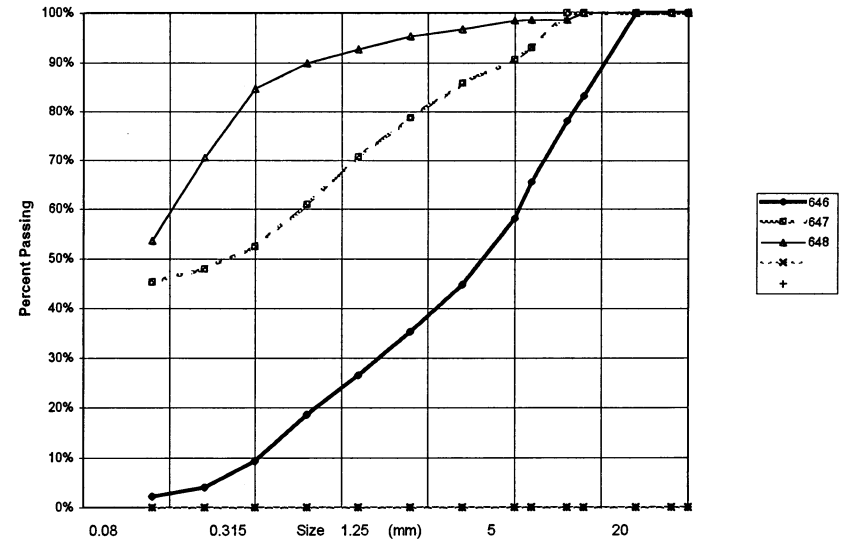
M.C.(%): 0%	M.C.(%): 0%	M.C.(%): 0%
-------------	-------------	-------------

LIMITS	LIMITS	LIMITS
LIQUID: 0.0	LIQUID: 0.0	LIQUID: 0.0
PLASTIC: 0.0	PLASTIC: 0.0	PLASTIC: 0.0
P.I.: 0.0	P.I.: 0.0	P.I.: 0.0

% GRAVEL: 55	% GRAVEL: 14	% GRAVEL: 3
% SAND: 43	% SAND: 41	% SAND: 43
% FINES: 2	% FINES: 45	% FINES: 54

CLASSIFICATION: POORLY GRADED GRAVEL WITH SAND (GP)	CLASSIFICATION: SILTY SAND (SM)	CLASSIFICATION: SANDY SILT (ML)
--	------------------------------------	------------------------------------

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-316
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1975+600
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 649
 LAB NO: 876
 DEPTH: 1.4-1.5
 TYPE: AUGER
 ORGANICS

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	95
10.0	95
5.0	92
2.5	88
2.0	--
1.25	83
0.840	--
0.630	77
0.420	--
0.315	71
0.160	65
0.150	--
0.080	58

M.C. (%): 29

LIMITS

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

% GRAVEL: 8
 % SAND: 35
 % FINES: 58

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-317
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1795+500
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 650
 LAB NO: 877
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	91
10.0	87
5.0	82
2.5	76
2.0	--
1.25	70
0.840	--
0.630	65
0.420	--
0.315	60
0.160	53
0.150	--
0.080	46

M.C. (%): 21

LIMITS

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

% GRAVEL: 18
 % SAND: 35
 % FINES: 46

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-318
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1795+350
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 651
 LAB NO: 878
 DEPTH: 1.1-1.3
 TYPE: AUGER

FIELD NO: 652
 LAB NO: 879
 DEPTH: 2.6-2.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	90
5.0	84
2.5	77
2.0	--
1.25	68
0.840	--
0.630	65
0.420	--
0.315	59
0.160	52
0.150	--
0.080	45

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	88
2.5	76
2.0	--
1.25	66
0.840	--
0.630	58
0.420	--
0.315	50
0.160	40
0.150	--
0.080	32

M.C. (%): 33

M.C. (%): 13

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

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

% GRAVEL: 16
 % SAND: 39
 % FINES: 45

% GRAVEL: 12
 % SAND: 56
 % FINES: 32

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-320
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1795+100
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 653
 LAB NO: 880
 DEPTH: 2.1-2.2
 TYPE: AUGER
 VERY ORGANIC

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	94
2.0	--
1.25	87
0.840	--
0.630	80
0.420	--
0.315	74
0.160	68
0.150	--
0.080	61

M.C. (%): 53

LIMITS

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

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

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-321
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1795+108 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 654
 LAB NO: 881
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 655
 LAB NO: 882
 DEPTH: 2.7-2.9
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	82
12.5	79
10.0	77
5.0	73
2.5	70
2.0	--
1.25	67
0.840	--
0.630	65
0.420	--
0.315	61
0.160	57
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	90
10.0	86
5.0	75
2.5	68
2.0	--
1.25	61
0.840	--
0.630	55
0.420	--
0.315	47
0.160	39
0.150	--
0.080	30

M.C. (%): 22

M.C. (%): 13

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

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

% GRAVEL: 27
 % SAND: 21
 % FINES: 52

% GRAVEL: 25
 % SAND: 46
 % FINES: 30

CLASSIFICATION:
 GRAVELLY SILT
 WITH SAND (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-322
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1795+095 O/S 23M RT
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 656
 LAB NO: 883
 DEPTH: 2.7-2.9
 TYPE: AUGER

FIELD NO: 657
 LAB NO: 884
 DEPTH: 3.6-3.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	91
10.0	85
5.0	74
2.5	66
2.0	--
1.25	58
0.840	--
0.630	53
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	97
10.0	93
5.0	81
2.5	72
2.0	--
1.25	65
0.840	--
0.630	59
0.420	--
0.315	52
0.160	44
0.150	--
0.080	36

M.C. (%): 18

M.C. (%): 20

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

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

% GRAVEL: 26
 % SAND: 41
 % FINES: 34

% GRAVEL: 19
 % SAND: 45
 % FINES: 36

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-323
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1795+000
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 658
 LAB NO: 885
 DEPTH: 1.3-1.5
 TYPE: AUGER

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	77
2.5	68
2.0	--
1.25	60
0.840	--
0.630	53
0.420	--
0.315	45
0.160	36
0.150	--
0.080	29

M.C. (%): 16

LIMITS

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

% GRAVEL: 23
 % SAND: 48
 % FINES: 29

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-324
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+875
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 659
 LAB NO: 886
 DEPTH: 1.3-1.5
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	89
5.0	87
2.5	79
2.0	--
1.25	71
0.840	--
0.630	65
0.420	--
0.315	60
0.160	54
0.150	--
0.080	46

M.C. (%): 19

LIMITS

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

% GRAVEL: 13
 % SAND: 40
 % FINES: 46

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-325
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+750 O/S 5M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 660
 LAB NO: 887
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 661
 LAB NO: 888
 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	79
12.5	77
10.0	76
5.0	69
2.5	64
2.0	--
1.25	60
0.840	--
0.630	56
0.420	--
0.315	52
0.160	46
0.150	--
0.080	39

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	90
12.5	88
10.0	86
5.0	79
2.5	68
2.0	--
1.25	56
0.840	--
0.630	45
0.420	--
0.315	35
0.160	24
0.150	--
0.080	15

M.C. (%): 10

M.C. (%): 8

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

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

% GRAVEL: 31
 % SAND: 31
 % FINES: 39

% GRAVEL: 21
 % SAND: 64
 % FINES: 15

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-326
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+650
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 662
 LAB NO: 889
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 663
 LAB NO: 890
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	89
10.0	86
5.0	80
2.5	74
2.0	--
1.25	69
0.840	--
0.630	64
0.420	--
0.315	59
0.160	52
0.150	--
0.080	44

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	90
10.0	81
5.0	65
2.5	50
2.0	--
1.25	40
0.840	--
0.630	33
0.420	--
0.315	27
0.160	21
0.150	--
0.080	16

M.C. (%): 9

M.C. (%): 3

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

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

% GRAVEL: 20
 % SAND: 36
 % FINES: 44

% GRAVEL: 35
 % SAND: 49
 % FINES: 16

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-327
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+550
 LOGGED BY: CC DATE COMPLETED: 95.07.27

FIELD NO: 664
 LAB NO: 891
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 665
 LAB NO: 892
 DEPTH: 2.5-2.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	89
12.5	81
10.0	77
5.0	69
2.5	65
2.0	--
1.25	60
0.840	--
0.630	56
0.420	--
0.315	50
0.160	44
0.150	--
0.080	38

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	89
2.5	80
2.0	--
1.25	73
0.840	--
0.630	67
0.420	--
0.315	61
0.160	54
0.150	--
0.080	47

M.C. (%): 15

M.C. (%): 15

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

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

% GRAVEL: 31
 % SAND: 31
 % FINES: 38

% GRAVEL: 11
 % SAND: 42
 % FINES: 47

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-328
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+450
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 666
 LAB NO: 893
 DEPTH: 2.7-2.9
 TYPE: AUGER

FIELD NO: 667
 LAB NO: 894
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	93
10.0	89
5.0	81
2.5	75
2.0	--
1.25	69
0.840	--
0.630	64
0.420	--
0.315	59
0.160	52
0.150	--
0.080	44

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	56
31.5	--
25.0	51
20.0	47
12.5	47
10.0	47
5.0	46
2.5	42
2.0	--
1.25	38
0.840	--
0.630	33
0.420	--
0.315	30
0.160	27
0.150	--
0.080	24

M.C. (%): 11

M.C. (%): 11

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

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

% GRAVEL: 19
 % SAND: 37
 % FINES: 44

% GRAVEL: 54
 % SAND: 22
 % FINES: 24

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-329
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+300
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 668
 LAB NO: 895
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 669
 LAB NO: 896
 DEPTH: 2.6-2.8
 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	92
0.840	--
0.630	89
0.420	--
0.315	85
0.160	78
0.150	--
0.080	71

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	100
10.0	97
5.0	88
2.5	77
2.0	--
1.25	67
0.840	--
0.630	60
0.420	--
0.315	53
0.160	47
0.150	--
0.080	40

M.C. (%): 35

M.C. (%): 14

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

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

% GRAVEL: 3
 % SAND: 26
 % FINES: 71

% GRAVEL: 12
 % SAND: 49
 % FINES: 40

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-330
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+300 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 670
 LAB NO: 897
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 671
 LAB NO: 898
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	80
12.5	75
10.0	73
5.0	64
2.5	58
2.0	--
1.25	53
0.840	--
0.630	49
0.420	--
0.315	44
0.160	40
0.150	--
0.080	35

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	89
2.5	79
2.0	--
1.25	70
0.840	--
0.630	63
0.420	--
0.315	55
0.160	47
0.150	--
0.080	39

M.C. (%): 22

M.C. (%): 11

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

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

% GRAVEL: 36
 % SAND: 29
 % FINES: 35

% GRAVEL: 11
 % SAND: 50
 % FINES: 39

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-331
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+200 *o/s 30m Rt.*
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 672
 LAB NO: 899
 DEPTH: 2.3-2.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	94
5.0	84
2.5	72
2.0	--
1.25	64
0.840	--
0.630	57
0.420	--
0.315	51
0.160	46
0.150	--
0.080	40

M.C. (%): 20

LIMITS

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

% GRAVEL: 16
 % SAND: 44
 % FINES: 40

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-332
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+200
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 673
 LAB NO: 900
 DEPTH: 1.8-2.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	92
12.5	75
10.0	68
5.0	52
2.5	42
2.0	--
1.25	36
0.840	--
0.630	32
0.420	--
0.315	27
0.160	23
0.150	--
0.080	19

M.C. (%): 16

LIMITS

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

% GRAVEL: 48
 % SAND: 33
 % FINES: 19

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-333
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+090 O/S 5M RT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 674
 LAB NO: 901
 DEPTH: 1.4-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	93
10.0	91
5.0	87
2.5	84
2.0	--
1.25	82
0.840	--
0.630	80
0.420	--
0.315	77
0.160	74
0.150	--
0.080	71

M.C. (%): 31

LIMITS

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

% GRAVEL: 13
 % SAND: 17
 % FINES: 71

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-334
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1794+000
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 675
 LAB NO: 902
 DEPTH: 1.2-1.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	92
10.0	90
5.0	84
2.5	79
2.0	--
1.25	73
0.840	--
0.630	69
0.420	--
0.315	64
0.160	58
0.150	--
0.080	52

M.C. (%): 22

LIMITS

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

% GRAVEL: 16
 % SAND: 32
 % FINES: 52

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-335
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+900
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 676
 LAB NO: 903
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	88
20.0	83
12.5	79
10.0	73
5.0	66
2.5	62
2.0	--
1.25	58
0.840	--
0.630	56
0.420	--
0.315	52
0.160	48
0.150	--
0.080	43

M.C. (%): 12

LIMITS

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

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

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-336
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+800
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 677
 LAB NO: 904
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	80
31.5	--
25.0	70
20.0	64
12.5	57
10.0	52
5.0	38
2.5	29
2.0	--
1.25	24
0.840	--
0.630	21
0.420	--
0.315	18
0.160	15
0.150	--
0.080	12

M.C. (%): 10

LIMITS

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

% GRAVEL: 62
 % SAND: 26
 % FINES: 12

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

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-337
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+800 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 678
 LAB NO: 905
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	73
12.5	69
10.0	63
5.0	58
2.5	49
2.0	--
1.25	41
0.840	--
0.630	39
0.420	--
0.315	37
0.160	35
0.150	--
0.080	32

M.C. (%): 19

LIMITS

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

% GRAVEL: 42
 % SAND: 27
 % FINES: 32

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-338
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+800 O/S 25M RT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 679
 LAB NO: 906
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 680
 LAB NO: 907
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	88
2.5	71
2.0	--
1.25	57
0.840	--
0.630	48
0.420	--
0.315	39
0.160	30
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	92
10.0	88
5.0	75
2.5	63
2.0	--
1.25	53
0.840	--
0.630	46
0.420	--
0.315	39
0.160	32
0.150	--
0.080	26

M.C. (%): 18

M.C. (%): 10

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

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

% GRAVEL: 12
 % SAND: 66
 % FINES: 22

% GRAVEL: 25
 % SAND: 49
 % FINES: 26

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-339
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+650 O/S 25M RT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 681
 LAB NO: 908
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	82
20.0	72
12.5	56
10.0	50
5.0	37
2.5	27
2.0	--
1.25	20
0.840	--
0.630	16
0.420	--
0.315	13
0.160	11
0.150	--
0.080	9

M.C. (%): 7

LIMITS

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

% GRAVEL: 63
 % SAND: 28
 % FINES: 9

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

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-340
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+650
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 682
 LAB NO: 909
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 683
 LAB NO: 910
 DEPTH: 2.5-2.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	89
10.0	83
5.0	70
2.5	60
2.0	--
1.25	53
0.840	--
0.630	47
0.420	--
0.315	41
0.160	36
0.150	--
0.080	30

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	89
10.0	80
5.0	58
2.5	41
2.0	--
1.25	29
0.840	--
0.630	21
0.420	--
0.315	15
0.160	10
0.150	--
0.080	8

M.C. (%): 15

M.C. (%): 7

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

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

% GRAVEL: 30
 % SAND: 40
 % FINES: 30

% GRAVEL: 42
 % SAND: 51
 % FINES: 8

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

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

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-341
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+650 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 684
 LAB NO: 911
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	91
12.5	84
10.0	79
5.0	62
2.5	51
2.0	--
1.25	43
0.840	--
0.630	37
0.420	--
0.315	30
0.160	24
0.150	--
0.080	20

M.C. (%): 11

LIMITS

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

% GRAVEL: 38
 % SAND: 42
 % FINES: 20

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-342
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+550
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 685
 LAB NO: 912
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 686
 LAB NO: 913
 DEPTH: 2.8-3.0
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	79
12.5	60
10.0	52
5.0	35
2.5	24
2.0	--
1.25	17
0.840	--
0.630	13
0.420	--
0.315	10
0.160	8
0.150	--
0.080	7

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	80
12.5	64
10.0	58
5.0	45
2.5	35
2.0	--
1.25	27
0.840	--
0.630	21
0.420	--
0.315	16
0.160	12
0.150	--
0.080	10

M.C. (%): 6

M.C. (%): 6

LIMITS

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

LIMITS

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

% GRAVEL: 65
 % SAND: 28
 % FINES: 7

% GRAVEL: 55
 % SAND: 35
 % FINES: 10

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

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

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-343
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+550 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 687
 LAB NO: 914
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	86
12.5	74
10.0	67
5.0	58
2.5	51
2.0	--
1.25	38
0.840	--
0.630	19
0.420	--
0.315	11
0.160	7
0.150	--
0.080	5

M.C. (%): 4

LIMITS

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

% GRAVEL: 42
 % SAND: 52
 % FINES: 5

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

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-344
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+450
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 688
 LAB NO: 915
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	81
12.5	71
10.0	66
5.0	51
2.5	37
2.0	--
1.25	28
0.840	--
0.630	21
0.420	--
0.315	16
0.160	12
0.150	--
0.080	9

M.C. (%): 8

LIMITS

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

% GRAVEL: 49
 % SAND: 41
 % FINES: 9

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

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-345
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+350
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 689
 LAB NO: 916
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	70
12.5	60
10.0	55
5.0	46
2.5	40
2.0	--
1.25	36
0.840	--
0.630	33
0.420	--
0.315	29
0.160	25
0.150	--
0.080	22

M.C. (%): 17

LIMITS

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

% GRAVEL: 54
 % SAND: 24
 % FINES: 22

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-346
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+240 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 690
 LAB NO: 917
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	80
12.5	68
10.0	63
5.0	50
2.5	41
2.0	--
1.25	34
0.840	--
0.630	29
0.420	--
0.315	24
0.160	20
0.150	--
0.080	17

M.C. (%): 13

LIMITS

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

% GRAVEL: 50
 % SAND: 33
 % FINES: 17

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-194 HOLE NUMBER: 371-348
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+240 O/S 25M RT
 LOGGED BY: CC DATE COMPLETED: 95.07.28

FIELD NO: 691
 LAB NO: 919
 DEPTH: 2.0-2.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	93
5.0	82
2.5	72
2.0	--
1.25	62
0.840	--
0.630	56
0.420	--
0.315	50
0.160	47
0.150	--
0.080	43

M.C. (%): 14

LIMITS

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

% GRAVEL: 18
 % SAND: 39
 % FINES: 43

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-349
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+215 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 690
 LAB NO: 918
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 691
 LAB NO: 920
 DEPTH: 3.4-3.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	86
12.5	74
10.0	69
5.0	56
2.5	49
2.0	--
1.25	44
0.840	--
0.630	40
0.420	--
0.315	34
0.160	27
0.150	--
0.080	21

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	88
5.0	67
2.5	52
2.0	--
1.25	42
0.840	--
0.630	35
0.420	--
0.315	28
0.160	21
0.150	--
0.080	16

M.C. (%): 14

M.C. (%): 10

LIMITS

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

LIMITS

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

% GRAVEL: 44
 % SAND: 35
 % FINES: 21

% GRAVEL: 33
 % SAND: 50
 % FINES: 16

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-350
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+190 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 692
 LAB NO: 921
 DEPTH: 1.3-1.6
 TYPE: AUGER

FIELD NO: 693
 LAB NO: 922
 DEPTH: 2.5-2.7
 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	100
2.0	--
1.25	98
0.840	--
0.630	92
0.420	--
0.315	76
0.160	57
0.150	--
0.080	45

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	93
10.0	86
5.0	65
2.5	50
2.0	--
1.25	39
0.840	--
0.630	31
0.420	--
0.315	24
0.160	18
0.150	--
0.080	14

M.C. (%): 55

M.C. (%): 9

LIMITS

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

LIMITS

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

% GRAVEL: 0
 % SAND: 55
 % FINES: 45

% GRAVEL: 35
 % SAND: 51
 % FINES: 14

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-351
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+165 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 694
 LAB NO: 923
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 695
 LAB NO: 924
 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	100
2.0	--
1.25	98
0.840	--
0.630	91
0.420	--
0.315	74
0.160	57
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	90
10.0	86
5.0	69
2.5	55
2.0	--
1.25	43
0.840	--
0.630	33
0.420	--
0.315	25
0.160	19
0.150	--
0.080	15

M.C. (%): 22

M.C. (%): 9

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

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

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

% GRAVEL: 31
 % SAND: 54
 % FINES: 15

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-352
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+100
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 696
 LAB NO: 925
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 697
 LAB NO: 926
 DEPTH: 2.8-3.0
 TYPE: AUGER
 VERY ORGANIC

FIELD NO: 698
 LAB NO: 927
 DEPTH: 4.1-4.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	93
5.0	86
2.5	80
2.0	--
1.25	73
0.840	--
0.630	67
0.420	--
0.315	57
0.160	46
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	99
2.0	--
1.25	97
0.840	--
0.630	92
0.420	--
0.315	83
0.160	73
0.150	--
0.080	64

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	97
10.0	96
5.0	95
2.5	94
2.0	--
1.25	93
0.840	--
0.630	91
0.420	--
0.315	85
0.160	75
0.150	--
0.080	62

M.C. (%): 30

M.C. (%): 50

M.C. (%): 37

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

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

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

% GRAVEL: 14
 % SAND: 48
 % FINES: 37

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

% GRAVEL: 5
 % SAND: 33
 % FINES: 62

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-353
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+000 O/S 25M RT
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 699
 LAB NO: 928
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 700
 LAB NO: 929
 DEPTH: 2.2-2.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	83
12.5	69
10.0	62
5.0	45
2.5	37
2.0	--
1.25	31
0.840	--
0.630	28
0.420	--
0.315	25
0.160	21
0.150	--
0.080	16

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	88
12.5	74
10.0	67
5.0	47
2.5	34
2.0	--
1.25	25
0.840	--
0.630	20
0.420	--
0.315	16
0.160	12
0.150	--
0.080	9

M.C. (%): 24

M.C. (%): 10

LIMITS

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

LIMITS

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

% GRAVEL: 55
 % SAND: 30
 % FINES: 16

% GRAVEL: 53
 % SAND: 38
 % FINES: 9

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-354
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1793+000
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 701
 LAB NO: 930
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 702
 LAB NO: 931
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 703
 LAB NO: 932
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	80
12.5	62
10.0	54
5.0	36
2.5	25
2.0	--
1.25	18
0.840	--
0.630	15
0.420	--
0.315	13
0.160	11
0.150	--
0.080	9

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	68
12.5	57
10.0	53
5.0	39
2.5	29
2.0	--
1.25	24
0.840	--
0.630	20
0.420	--
0.315	17
0.160	14
0.150	--
0.080	11

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	80
12.5	65
10.0	58
5.0	40
2.5	29
2.0	--
1.25	22
0.840	--
0.630	18
0.420	--
0.315	14
0.160	11
0.150	--
0.080	9

M.C. (%): 14

M.C. (%): 19

M.C. (%): 17

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

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

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

% GRAVEL: 64
 % SAND: 27
 % FINES: 9

% GRAVEL: 61
 % SAND: 27
 % FINES: 11

% GRAVEL: 60
 % SAND: 31
 % FINES: 9

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: 092-202101-0329-194 HOLE NUMBER: 372-355
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+975 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 704
 LAB NO: 933
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 705
 LAB NO: 934
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	89
12.5	80
10.0	75
5.0	65
2.5	57
2.0	--
1.25	49
0.840	--
0.630	41
0.420	--
0.315	34
0.160	28
0.150	--
0.080	21

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	90
10.0	84
5.0	66
2.5	54
2.0	--
1.25	43
0.840	--
0.630	35
0.420	--
0.315	29
0.160	25
0.150	--
0.080	19

M.C. (%): 24

M.C. (%): 16

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

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

% GRAVEL: 35
 % SAND: 44
 % FINES: 21

% GRAVEL: 34
 % SAND: 47
 % FINES: 19

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-356
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+850 O/S 25M LT
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 706
 LAB NO: 935
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 707
 LAB NO: 936
 DEPTH: 2.2-2.4
 TYPE: AUGER
 SIEVE SPILLED

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	92
0.160	82
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	--
5.0	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 44

M.C. (%): 8

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

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

% GRAVEL: 0
 % SAND: 27
 % FINES: 73

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-357
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+850
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 708
 LAB NO: 937
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	72
12.5	51
10.0	45
5.0	32
2.5	26
2.0	--
1.25	21
0.840	--
0.630	18
0.420	--
0.315	13
0.160	8
0.150	--
0.080	6

M.C. (%): 8

LIMITS

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

% GRAVEL: 68
 % SAND: 26
 % FINES: 6

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-358
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+850 O/S 25M RT
 LOGGED BY: CC DATE COMPLETED: 95.07.29

FIELD NO: 709
 LAB NO: 938
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 710
 LAB NO: 939
 DEPTH: 2.4-2.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	72
12.5	61
10.0	54
5.0	41
2.5	31
2.0	--
1.25	23
0.840	--
0.630	16
0.420	--
0.315	11
0.160	7
0.150	--
0.080	5

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	71
20.0	63
12.5	55
10.0	49
5.0	37
2.5	29
2.0	--
1.25	23
0.840	--
0.630	17
0.420	--
0.315	12
0.160	9
0.150	--
0.080	7

M.C. (%): 6

M.C. (%): 9

LIMITS

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

LIMITS

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

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

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

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

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-359
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+750
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 711
 LAB NO: 940
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	85
12.5	72
10.0	62
5.0	45
2.5	32
2.0	--
1.25	23
0.840	--
0.630	15
0.420	--
0.315	9
0.160	6
0.150	--
0.080	5

M.C. (%): 6

LIMITS

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

% GRAVEL: 55
 % SAND: 40
 % FINES: 5

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-360
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+700
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 712
 LAB NO: 941
 DEPTH: 1.2-1.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	86
12.5	73
10.0	65
5.0	53
2.5	41
2.0	--
1.25	31
0.840	--
0.630	21
0.420	--
0.315	14
0.160	11
0.150	--
0.080	9

M.C. (%): 7

LIMITS

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

% GRAVEL: 47
 % SAND: 44
 % FINES: 9

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-361
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+600 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 713
 LAB NO: 942
 DEPTH: 1.2-1.4
 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	99
0.420	--
0.315	98
0.160	95
0.150	--
0.080	90

M.C. (%): 31

LIMITS

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

% GRAVEL: 0
 % SAND: 10
 % FINES: 90

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-363
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+600 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 714
 LAB NO: 943
 DEPTH: 1.1-1.2
 TYPE: AUGER

FIELD NO: 715
 LAB NO: 944
 DEPTH: 1.8-2.0
 TYPE: AUGER
 SIEVE SPILLED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	83
12.5	72
10.0	65
5.0	53
2.5	44
2.0	--
1.25	38
0.840	--
0.630	33
0.420	--
0.315	29
0.160	26
0.150	--
0.080	24

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	--
0.160	--
0.150	--
0.080	--

M.C. (%): 13

M.C. (%): 7

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

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

% GRAVEL: 47
 % SAND: 29
 % FINES: 24

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-364
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+500
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 716
 LAB NO: 945
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 717
 LAB NO: 946
 DEPTH: 1.9-2.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	85
12.5	68
10.0	60
5.0	42
2.5	30
2.0	--
1.25	20
0.840	--
0.630	14
0.420	--
0.315	9
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	97
12.5	94
10.0	90
5.0	69
2.5	50
2.0	--
1.25	36
0.840	--
0.630	27
0.420	--
0.315	20
0.160	15
0.150	--
0.080	12

M.C. (%): 7

M.C. (%): 4

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

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

% GRAVEL: 58
 % SAND: 37
 % FINES: 5

% GRAVEL: 31
 % SAND: 57
 % FINES: 12

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

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-365
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+375
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 718
 LAB NO: 947
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 719
 LAB NO: 948
 DEPTH: 1.8-2.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	99
5.0	98
2.5	96
2.0	--
1.25	95
0.840	--
0.630	93
0.420	--
0.315	89
0.160	86
0.150	--
0.080	85

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	45
31.5	--
25.0	45
20.0	45
12.5	42
10.0	39
5.0	34
2.5	29
2.0	--
1.25	25
0.840	--
0.630	23
0.420	--
0.315	20
0.160	18
0.150	--
0.080	16

M.C. (%): 23

M.C. (%): 6

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

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

% GRAVEL: 2
 % SAND: 13
 % FINES: 85

% GRAVEL: 66
 % SAND: 18
 % FINES: 16

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-366
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+275 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 720
 LAB NO: 949
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 721
 LAB NO: 950
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 722
 LAB NO: 951
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	95
10.0	94
5.0	89
2.5	85
2.0	--
1.25	80
0.840	--
0.630	76
0.420	--
0.315	70
0.160	60
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	73
12.5	67
10.0	65
5.0	60
2.5	56
2.0	--
1.25	52
0.840	--
0.630	48
0.420	--
0.315	44
0.160	40
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	89
10.0	86
5.0	77
2.5	68
2.0	--
1.25	60
0.840	--
0.630	53
0.420	--
0.315	47
0.160	42
0.150	--
0.080	37

M.C. (%): 49

M.C. (%): 16

M.C. (%): 17

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

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

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

% GRAVEL: 11
 % SAND: 38
 % FINES: 52

% GRAVEL: 40
 % SAND: 24
 % FINES: 36

% GRAVEL: 23
 % SAND: 40
 % FINES: 37

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-367
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+275
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 723
 LAB NO: 952
 DEPTH: 1.5-1.7
 TYPE: AUGER

FIELD NO: 724
 LAB NO: 953
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	100
10.0	99
5.0	97
2.5	95
2.0	--
1.25	93
0.840	--
0.630	91
0.420	--
0.315	89
0.160	87
0.150	--
0.080	84

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	89
10.0	81
5.0	65
2.5	53
2.0	--
1.25	44
0.840	--
0.630	38
0.420	--
0.315	33
0.160	28
0.150	--
0.080	23

M.C. (%): 19

M.C. (%): 8

LIMITS

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

LIMITS

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

% GRAVEL: 3
 % SAND: 13
 % FINES: 84

% GRAVEL: 35
 % SAND: 42
 % FINES: 23

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-368
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+275 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 725
 LAB NO: 954
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 726
 LAB NO: 955
 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	81
12.5	68
10.0	63
5.0	45
2.5	29
2.0	--
1.25	17
0.840	--
0.630	11
0.420	--
0.315	7
0.160	5
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	95
10.0	91
5.0	82
2.5	75
2.0	--
1.25	68
0.840	--
0.630	63
0.420	--
0.315	58
0.160	53
0.150	--
0.080	46

M.C. (%): 6

M.C. (%): 15

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

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

% GRAVEL: 55
 % SAND: 41
 % FINES: 4

% GRAVEL: 18
 % SAND: 36
 % FINES: 46

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-369
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+200
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 727
 LAB NO: 956
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 728
 LAB NO: 957
 DEPTH: 2.8-3.0
 TYPE: AUGER
 SIEVE SPILLED

FIELD NO: 729
 LAB NO: 958
 DEPTH: 3.8-3.9
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	90
10.0	86
5.0	75
2.5	66
2.0	--
1.25	57
0.840	--
0.630	49
0.420	--
0.315	39
0.160	31
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	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	95
12.5	86
10.0	81
5.0	65
2.5	54
2.0	--
1.25	45
0.840	--
0.630	39
0.420	--
0.315	32
0.160	26
0.150	--
0.080	22

M.C. (%): 11

M.C. (%): 10

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: 25
 % SAND: 50
 % FINES: 25

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 35
 % SAND: 42
 % FINES: 22

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-370
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+100
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 730
 LAB NO: 959
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 731
 LAB NO: 960
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	91
12.5	80
10.0	75
5.0	59
2.5	45
2.0	--
1.25	32
0.840	--
0.630	24
0.420	--
0.315	18
0.160	17
0.150	--
0.080	14

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	98
31.5	--
25.0	86
20.0	70
12.5	59
10.0	52
5.0	44
2.5	34
2.0	--
1.25	26
0.840	--
0.630	21
0.420	--
0.315	16
0.160	13
0.150	--
0.080	11

M.C. (%): 33

M.C. (%): 8

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

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

% GRAVEL: 41
 % SAND: 45
 % FINES: 14

% GRAVEL: 56
 % SAND: 33
 % FINES: 11

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-371
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1792+000
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 732
 LAB NO: 961
 DEPTH: 1.1-1.3
 TYPE: AUGER

FIELD NO: 733
 LAB NO: 962
 DEPTH: 1.9-2.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	95
5.0	91
2.5	87
2.0	--
1.25	83
0.840	--
0.630	81
0.420	--
0.315	76
0.160	69
0.150	--
0.080	60

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	93
12.5	90
10.0	87
5.0	73
2.5	60
2.0	--
1.25	48
0.840	--
0.630	40
0.420	--
0.315	34
0.160	29
0.150	--
0.080	24

M.C. (%): 24

M.C. (%): 10

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

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

% GRAVEL: 9
 % SAND: 31
 % FINES: 60

% GRAVEL: 27
 % SAND: 49
 % FINES: 24

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-372
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+900
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 734
 LAB NO: 963
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 735
 LAB NO: 964
 DEPTH: 2.5-2.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	86
12.5	78
10.0	72
5.0	59
2.5	49
2.0	--
1.25	42
0.840	--
0.630	36
0.420	--
0.315	28
0.160	22
0.150	--
0.080	17

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	90
12.5	86
10.0	81
5.0	63
2.5	47
2.0	--
1.25	35
0.840	--
0.630	26
0.420	--
0.315	19
0.160	13
0.150	--
0.080	9

M.C. (%): 7

M.C. (%): 8

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

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

% GRAVEL: 41
 % SAND: 42
 % FINES: 17

% GRAVEL: 37
 % SAND: 54
 % FINES: 9

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-373
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+825 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 736
 LAB NO: 965
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 737
 LAB NO: 966
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 738
 LAB NO: 967
 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	100
10.0	99
5.0	94
2.5	91
2.0	--
1.25	88
0.840	--
0.630	84
0.420	--
0.315	76
0.160	60
0.150	--
0.080	42

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	93
0.160	83
0.150	--
0.080	70

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	93
5.0	78
2.5	66
2.0	--
1.25	57
0.840	--
0.630	50
0.420	--
0.315	43
0.160	37
0.150	--
0.080	31

M.C. (%): 20

M.C. (%): 26

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: 6
 % SAND: 53
 % FINES: 42

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

% GRAVEL: 22
 % SAND: 47
 % FINES: 31

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-374
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+825
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 739
 LAB NO: 968
 DEPTH: 1.4-1.5
 TYPE: AUGER

FIELD NO: 740
 LAB NO: 969
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 741
 LAB NO: 970
 DEPTH: 4.0-4.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	96
5.0	91
2.5	89
2.0	--
1.25	87
0.840	--
0.630	86
0.420	--
0.315	84
0.160	81
0.150	--
0.080	77

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	92
0.160	82
0.150	--
0.080	67

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	96
12.5	91
10.0	86
5.0	77
2.5	70
2.0	--
1.25	63
0.840	--
0.630	59
0.420	--
0.315	54
0.160	48
0.150	--
0.080	40

M.C. (%): 36

M.C. (%): 25

M.C. (%): 17

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

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

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

% GRAVEL: 9
 % SAND: 14
 % FINES: 77

% GRAVEL: 0
 % SAND: 32
 % FINES: 67

% GRAVEL: 23
 % SAND: 36
 % FINES: 40

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-375
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+825 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 742
 LAB NO: 971
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 743
 LAB NO: 972
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	83
12.5	75
10.0	71
5.0	60
2.5	51
2.0	--
1.25	44
0.840	--
0.630	40
0.420	--
0.315	36
0.160	32
0.150	--
0.080	29

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	100
10.0	99
5.0	99
2.5	99
2.0	--
1.25	98
0.840	--
0.630	97
0.420	--
0.315	91
0.160	77
0.150	--
0.080	61

M.C. (%): 11

M.C. (%): 23

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

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

% GRAVEL: 40
 % SAND: 31
 % FINES: 29

% GRAVEL: 1
 % SAND: 39
 % FINES: 61

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-376
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+725
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 744
 LAB NO: 973
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 745
 LAB NO: 974
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 746
 LAB NO: 975
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	82
12.5	75
10.0	67
5.0	53
2.5	43
2.0	--
1.25	36
0.840	--
0.630	31
0.420	--
0.315	27
0.160	23
0.150	--
0.080	19

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	75
12.5	63
10.0	58
5.0	44
2.5	35
2.0	--
1.25	29
0.840	--
0.630	26
0.420	--
0.315	23
0.160	19
0.150	--
0.080	16

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	92
2.5	85
2.0	--
1.25	78
0.840	--
0.630	74
0.420	--
0.315	69
0.160	61
0.150	--
0.080	50

M.C. (%): 15

M.C. (%): 8

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: 47
 % SAND: 33
 % FINES: 19

% GRAVEL: 56
 % SAND: 28
 % FINES: 16

% GRAVEL: 8
 % SAND: 42
 % FINES: 50

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-377
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+642
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 747
 LAB NO: 976
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 748
 LAB NO: 977
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 749
 LAB NO: 978
 DEPTH: 3.4-3.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	81
12.5	76
10.0	73
5.0	66
2.5	59
2.0	--
1.25	53
0.840	--
0.630	48
0.420	--
0.315	43
0.160	37
0.150	--
0.080	32

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	78
31.5	--
25.0	74
20.0	68
12.5	65
10.0	60
5.0	51
2.5	45
2.0	--
1.25	39
0.840	--
0.630	34
0.420	--
0.315	30
0.160	26
0.150	--
0.080	22

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	86
20.0	83
12.5	73
10.0	69
5.0	60
2.5	52
2.0	--
1.25	45
0.840	--
0.630	40
0.420	--
0.315	35
0.160	30
0.150	--
0.080	26

M.C. (%): 7

M.C. (%): 6

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: 34
 % SAND: 34
 % FINES: 32

% GRAVEL: 49
 % SAND: 29
 % FINES: 22

% GRAVEL: 40
 % SAND: 34
 % FINES: 26

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 373-378
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+525
 LOGGED BY: CC DATE COMPLETED: 95.08.01

FIELD NO: 750
 LAB NO: 979
 DEPTH: 1.3-1.5
 TYPE: AUGER
 SIEVE SPILLED

FIELD NO: 751
 LAB NO: 980
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 752
 LAB NO: 981
 DEPTH: 3.6-3.8
 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	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

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	86
2.5	71
2.0	--
1.25	57
0.840	--
0.630	47
0.420	--
0.315	38
0.160	31
0.150	--
0.080	25

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	92
5.0	78
2.5	65
2.0	--
1.25	54
0.840	--
0.630	36
0.420	--
0.315	39
0.160	33
0.150	--
0.080	27

M.C. (%): 12

M.C. (%): 7

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: --
 % SAND: --
 % FINES: --

% GRAVEL: 14
 % SAND: 61
 % FINES: 25

% GRAVEL: 22
 % SAND: 51
 % FINES: 27

CLASSIFICATION:

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-379
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+450
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 753
 LAB NO: 982
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 754
 LAB NO: 983
 DEPTH: 2.5-2.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	93
20.0	90
12.5	80
10.0	76
5.0	64
2.5	57
2.0	--
1.25	52
0.840	--
0.630	48
0.420	--
0.315	44
0.160	40
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	94
5.0	83
2.5	74
2.0	--
1.25	63
0.840	--
0.630	52
0.420	--
0.315	42
0.160	34
0.150	--
0.080	27

M.C. (%): 14

M.C. (%): 10

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

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

% GRAVEL: 36
 % SAND: 29
 % FINES: 36

% GRAVEL: 17
 % SAND: 57
 % FINES: 27

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-380
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+425
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 755
 LAB NO: 984
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 756
 LAB NO: 985
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 757
 LAB NO: 986
 DEPTH: 3.6-3.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	89
12.5	82
10.0	75
5.0	65
2.5	58
2.0	--
1.25	52
0.840	--
0.630	48
0.420	--
0.315	44
0.160	39
0.150	--
0.080	34

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	85
2.0	--
1.25	82
0.840	--
0.630	79
0.420	--
0.315	75
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	95
10.0	91
5.0	78
2.5	64
2.0	--
1.25	53
0.840	--
0.630	45
0.420	--
0.315	39
0.160	31
0.150	--
0.080	24

M.C. (%): 13

M.C. (%): 14

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: 35
 % SAND: 32
 % FINES: 34

% GRAVEL: 10
 % SAND: 56
 % FINES: 33

% GRAVEL: 22
 % SAND: 54
 % FINES: 24

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-381
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+350 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 758
 LAB NO: 987
 DEPTH: 1.3-1.5
 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	100
2.0	--
1.25	100
0.840	--
0.630	98
0.420	--
0.315	95
0.160	87
0.150	--
0.080	72

M.C. (%): 40

LIMITS

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

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

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-382
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+350
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 759
 LAB NO: 988
 DEPTH: 1.3-1.5
 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	97
2.0	--
1.25	94
0.840	--
0.630	91
0.420	--
0.315	88
0.160	85
0.150	--
0.080	81

M.C. (%): 44

LIMITS

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

% GRAVEL: 1
 % SAND: 18
 % FINES: 81

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-383
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+350 O/S 15M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 760
 LAB NO: 989
 DEPTH: 1.3-1.5
 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	100
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	93
0.160	90
0.150	--
0.080	83

M.C. (%): 47

LIMITS

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

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

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-384
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+250
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 767
 LAB NO: 990
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 768
 LAB NO: 991
 DEPTH: 2.8-3.0
 TYPE: AUGER
 SIEVE SPILLED

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	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	95
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	--
2.5	--
2.0	--
1.25	--
0.840	--
0.630	--
0.420	--
0.315	--
0.160	--
0.150	--
0.080	--

M.C. (%): 48

M.C. (%): 3

LIMITS

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

LIMITS

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

% GRAVEL: 0
 % SAND: 8
 % FINES: 92

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-385
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+160
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 769
 LAB NO: 992
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 770
 LAB NO: 993
 DEPTH: 2.8-3.0
 TYPE: AUGER
 SIEVE SPILLED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	97
5.0	94
2.5	92
2.0	--
1.25	90
0.840	--
0.630	87
0.420	--
0.315	82
0.160	71
0.150	--
0.080	54

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	--
0.160	--
0.150	--
0.080	--

M.C. (%): 39

M.C. (%): 9

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

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

% GRAVEL: 6
 % SAND: 40
 % FINES: 54

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0329-194 **HOLE NUMBER:** 372-386
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 12B
DRILL UNIT: 36-002
HOLE LOCATION: 1791+075 O/S 15M RT
LOGGED BY: CC **DATE COMPLETED:** 95.08.02

FIELD NO: 771
LAB NO: 994
DEPTH: 1.3-1.5
TYPE: AUGER

FIELD NO: 772
LAB NO: 995
DEPTH: 2.8-3.0
TYPE: AUGER

FIELD NO: 773
LAB NO: 996
DEPTH: 4.3-4.5
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	96
0.150	--
0.080	85

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	84
20.0	78
12.5	70
10.0	65
5.0	53
2.5	43
2.0	--
1.25	34
0.840	--
0.630	27
0.420	--
0.315	21
0.160	16
0.150	--
0.080	13

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	85
20.0	80
12.5	70
10.0	63
5.0	47
2.5	36
2.0	--
1.25	27
0.840	--
0.630	21
0.420	--
0.315	16
0.160	12
0.150	--
0.080	9

M.C. (%) : 56

M.C. (%) : 6

M.C. (%) : 5

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

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

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

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

% GRAVEL: 47
% SAND: 41
% FINES: 13

% GRAVEL: 53
% SAND: 38
% FINES: 9

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

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

PROJECT NUMBER: 092-202101-0329-194 **HOLE NUMBER:** 372-387
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 12B
DRILL UNIT: 36-002
HOLE LOCATION: 1791+005 O/S 15M RT
LOGGED BY: CC **DATE COMPLETED:** 95.08.02

FIELD NO: 774
LAB NO: 997
DEPTH: 1.3-1.5
TYPE: AUGER

FIELD NO: 775
LAB NO: 998
DEPTH: 2.8-3.0
TYPE: AUGER

FIELD NO: 776
LAB NO: 999
DEPTH: 4.3-4.5
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	74
12.5	68
10.0	63
5.0	52
2.5	42
2.0	--
1.25	31
0.840	--
0.630	20
0.420	--
0.315	10
0.160	3
0.150	--
0.080	2

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	74
31.5	--
25.0	56
20.0	52
12.5	46
10.0	43
5.0	33
2.5	23
2.0	--
1.25	16
0.840	--
0.630	14
0.420	--
0.315	11
0.160	6
0.150	--
0.080	4

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	68
20.0	57
12.5	48
10.0	43
5.0	32
2.5	23
2.0	--
1.25	15
0.840	--
0.630	11
0.420	--
0.315	8
0.160	5
0.150	--
0.080	3

M.C. (%): 9

M.C. (%): 7

M.C. (%): 4

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

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

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

% GRAVEL: 48
% SAND: 50
% FINES: 2

% GRAVEL: 67
% SAND: 29
% FINES: 4

% GRAVEL: 68
% SAND: 29
% FINES: 3

CLASSIFICATION:
 POORLY GRADED
 SAND WITH GRAVEL
 (SP)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

CLASSIFICATION:
 WELL-GRADED
 GRAVEL WITH SAND
 (GW)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-388
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+005
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 777
 LAB NO: 1000
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 778
 LAB NO: 1001
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 779
 LAB NO: 1002
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	97
2.5	94
2.0	--
1.25	89
0.840	--
0.630	82
0.420	--
0.315	63
0.160	30
0.150	--
0.080	15

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	97
0.160	91
0.150	--
0.080	74

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	76
12.5	65
10.0	61
5.0	53
2.5	45
2.0	--
1.25	40
0.840	--
0.630	36
0.420	--
0.315	30
0.160	19
0.150	--
0.080	12

M.C. (%): 22

M.C. (%): 35

M.C. (%): 13

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: 0
 % SAND: 26
 % FINES: 74

% GRAVEL: 47
 % SAND: 41
 % FINES: 12

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

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

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-389
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1791+005 O/S 15M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 780
 LAB NO: 1003
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 781
 LAB NO: 1004
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	100
10.0	99
5.0	98
2.5	96
2.0	--
1.25	93
0.840	--
0.630	89
0.420	--
0.315	84
0.160	74
0.150	--
0.080	58

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	90
12.5	83
10.0	79
5.0	75
2.5	71
2.0	--
1.25	68
0.840	--
0.630	65
0.420	--
0.315	59
0.160	47
0.150	--
0.080	33

M.C. (%): 33

M.C. (%): 29

LIMITS

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

LIMITS

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

% GRAVEL: 2
 % SAND: 40
 % FINES: 58

% GRAVEL: 25
 % SAND: 43
 % FINES: 33

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-390
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+850 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 782
 LAB NO: 1005
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 783
 LAB NO: 1006
 DEPTH: 2.8-3.0
 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	100
0.840	--
0.630	100
0.420	--
0.315	99
0.160	96
0.150	--
0.080	85

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	99
0.840	--
0.630	98
0.420	--
0.315	97
0.160	96
0.150	--
0.080	93

M.C. (%): 49

M.C. (%): 41

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

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

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

% GRAVEL: 0
 % SAND: 6
 % FINES: 93

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-391
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+850
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 784
 LAB NO: 1007
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 785
 LAB NO: 1008
 DEPTH: 2.8-3.0
 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	99
2.0	--
1.25	98
0.840	--
0.630	98
0.420	--
0.315	96
0.160	85
0.150	--
0.080	55

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	98
0.160	96
0.150	--
0.080	95

M.C. (%): 64

M.C. (%): 37

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

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

% GRAVEL: 1
 % SAND: 44
 % FINES: 55

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

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-392
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+850 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 786
 LAB NO: 1009
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	74
20.0	70
12.5	59
10.0	54
5.0	43
2.5	36
2.0	--
1.25	31
0.840	--
0.630	28
0.420	--
0.315	25
0.160	23
0.150	--
0.080	21

M.C. (%): 11

LIMITS

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

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

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-393
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+725
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 787
 LAB NO: 1010
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 788
 LAB NO: 1011
 DEPTH: 2.2-2.4
 TYPE: AUGER
 SIEVE SPILLED

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	100
5.0	93
2.5	74
2.0	--
1.25	56
0.840	--
0.630	45
0.420	--
0.315	38
0.160	32
0.150	--
0.080	27

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	--
0.160	--
0.150	--
0.080	--

M.C. (%): 17

M.C. (%): 11

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

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

% GRAVEL: 7
 % SAND: 66
 % FINES: 27

% GRAVEL: --
 % SAND: --
 % FINES: --

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-394
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+600 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 789
 LAB NO: 1012
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 790
 LAB NO: 1013
 DEPTH: 2.2-2.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	91
12.5	85
10.0	84
5.0	78
2.5	75
2.0	--
1.25	72
0.840	--
0.630	68
0.420	--
0.315	64
0.160	59
0.150	--
0.080	54

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	92
5.0	84
2.5	75
2.0	--
1.25	67
0.840	--
0.630	62
0.420	--
0.315	55
0.160	47
0.150	--
0.080	38

M.C. (%): 25

M.C. (%): 12

LIMITS

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

LIMITS

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

% GRAVEL: 22
 % SAND: 24
 % FINES: 54

% GRAVEL: 16
 % SAND: 46
 % FINES: 38

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-395
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+500 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 791
 LAB NO: 1014
 DEPTH: 2.4-2.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	90
12.5	85
10.0	82
5.0	74
2.5	69
2.0	--
1.25	64
0.840	--
0.630	59
0.420	--
0.315	53
0.160	44
0.150	--
0.080	33

M.C. (%): 11

LIMITS

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

% GRAVEL: 26
 % SAND: 41
 % FINES: 33

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-396
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+400 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 792
 LAB NO: 1015
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	97
10.0	90
5.0	75
2.5	62
2.0	--
1.25	52
0.840	--
0.630	45
0.420	--
0.315	39
0.160	33
0.150	--
0.080	28

M.C. (%): 12

LIMITS

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

% GRAVEL: 25
 % SAND: 48
 % FINES: 28

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0329-194 HOLE NUMBER: 372-397
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+300 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 793
 LAB NO: 1016
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 794
 LAB NO: 1017
 DEPTH: 2.6-2.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	89
10.0	86
5.0	77
2.5	71
2.0	--
1.25	66
0.840	--
0.630	62
0.420	--
0.315	58
0.160	51
0.150	--
0.080	44

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	93
2.5	83
2.0	--
1.25	72
0.840	--
0.630	63
0.420	--
0.315	55
0.160	48
0.150	--
0.080	41

M.C. (%): 15

M.C. (%): 10

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

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

% GRAVEL: 23
 % SAND: 33
 % FINES: 44

% GRAVEL: 7
 % SAND: 53
 % FINES: 41

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0329-194 **HOLE NUMBER:** 372-398
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 12B
DRILL UNIT: 36-002
HOLE LOCATION: 1790+350
LOGGED BY: CC **DATE COMPLETED:** 95.08.02

FIELD NO: 795
LAB NO: 1018
DEPTH: 1.3-1.5
TYPE: AUGER

FIELD NO: 796
LAB NO: 1019
DEPTH: 2.8-3.0
TYPE: AUGER

FIELD NO: 797
LAB NO: 1020
DEPTH: 3.6-3.7
TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	89
12.5	80
10.0	73
5.0	64
2.5	58
2.0	--
1.25	54
0.840	--
0.630	52
0.420	--
0.315	49
0.160	47
0.150	--
0.080	44

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	93
10.0	87
5.0	70
2.5	56
2.0	--
1.25	44
0.840	--
0.630	37
0.420	--
0.315	31
0.160	26
0.150	--
0.080	21

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	93
10.0	89
5.0	66
2.5	47
2.0	--
1.25	34
0.840	--
0.630	28
0.420	--
0.315	24
0.160	20
0.150	--
0.080	17

M.C. (%): 26

M.C. (%): 10

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: 36
% SAND: 20
% FINES: 44

% GRAVEL: 30
% SAND: 49
% FINES: 21

% GRAVEL: 34
% SAND: 48
% FINES: 17

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 372-399
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+450
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 798
 LAB NO: 1021
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 799
 LAB NO: 1022
 DEPTH: 2.5-2.6
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	87
12.5	80
10.0	77
5.0	71
2.5	67
2.0	--
1.25	63
0.840	--
0.630	58
0.420	--
0.315	52
0.160	45
0.150	--
0.080	36

M.C. (%): 22

LIMITS

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

% GRAVEL: 29
 % SAND: 35
 % FINES: 36

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

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	84
2.5	74
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. (%): 9

LIMITS

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

% GRAVEL: 16
 % SAND: 50
 % FINES: 35

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 372-400
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+550
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 800
 LAB NO: 1023
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 801
 LAB NO: 1024
 DEPTH: 2.6-2.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	98
0.840	--
0.630	96
0.420	--
0.315	95
0.160	93
0.150	--
0.080	90

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	90
2.5	81
2.0	--
1.25	72
0.840	--
0.630	64
0.420	--
0.315	58
0.160	51
0.150	--
0.080	45

M.C. (%): 63

M.C. (%): 14

LIMITS

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

LIMITS

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

% GRAVEL: 0
 % SAND: 10
 % FINES: 90

% GRAVEL: 10
 % SAND: 44
 % FINES: 45

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-401
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+600 O/S 15M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 802
 LAB NO: 1025
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 803
 LAB NO: 1026
 DEPTH: 4.3-4.5
 TYPE: AUGER

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	74
2.5	68
2.0	--
1.25	63
0.840	--
0.630	58
0.420	--
0.315	51
0.160	40
0.150	--
0.080	31

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	87
2.5	79
2.0	--
1.25	68
0.840	--
0.630	61
0.420	--
0.315	54
0.160	47
0.150	--
0.080	40

M.C. (%): 17

M.C. (%): 12

LIMITS

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

LIMITS

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

% GRAVEL: 26
 % SAND: 43
 % FINES: 31

% GRAVEL: 13
 % SAND: 47
 % FINES: 40

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-402
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+500 O/S 15M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 804
 LAB NO: 1027
 DEPTH: 1.6-1.7
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	94
10.0	92
5.0	84
2.5	77
2.0	--
1.25	71
0.840	--
0.630	66
0.420	--
0.315	59
0.160	51
0.150	--
0.080	43

M.C. (%): 14

LIMITS

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

% GRAVEL: 16
 % SAND: 41
 % FINES: 43

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-403
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+400 O/S 15M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 805
 LAB NO: 1028
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 806
 LAB NO: 1029
 DEPTH: 2.5-2.7
 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	96
2.5	94
2.0	--
1.25	92
0.840	--
0.630	90
0.420	--
0.315	87
0.160	80
0.150	--
0.080	70

M.C. (%): 27

LIMITS

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

% GRAVEL: 4
 % SAND: 26
 % FINES: 70

CLASSIFICATION:
 SANDY SILT (ML)

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	87
2.5	80
2.0	--
1.25	73
0.840	--
0.630	66
0.420	--
0.315	59
0.160	48
0.150	--
0.080	41

M.C. (%): 18

LIMITS

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

% GRAVEL: 13
 % SAND: 46
 % FINES: 41

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-404
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+325 O/S 15M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.02

FIELD NO: 807
 LAB NO: 1030
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 808
 LAB NO: 1031
 DEPTH: 1.8-2.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	94
12.5	86
10.0	84
5.0	78
2.5	75
2.0	--
1.25	70
0.840	--
0.630	66
0.420	--
0.315	61
0.160	55
0.150	--
0.080	49

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	89
2.5	80
2.0	--
1.25	71
0.840	--
0.630	63
0.420	--
0.315	56
0.160	48
0.150	--
0.080	39

M.C. (%): 17

M.C. (%): 12

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

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

% GRAVEL: 22
 % SAND: 29
 % FINES: 49

% GRAVEL: 11
 % SAND: 50
 % FINES: 39

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-405
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+240 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 809
 LAB NO: 1032
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 810
 LAB NO: 1033
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	92
10.0	91
5.0	87
2.5	83
2.0	--
1.25	80
0.840	--
0.630	76
0.420	--
0.315	70
0.160	59
0.150	--
0.080	53

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	85
2.5	80
2.0	--
1.25	76
0.840	--
0.630	73
0.420	--
0.315	68
0.160	60
0.150	--
0.080	54

M.C. (%): 73

M.C. (%): 98

LIMITS

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

LIMITS

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

% GRAVEL: 13
 % SAND: 34
 % FINES: 53

% GRAVEL: 15
 % SAND: 31
 % FINES: 54

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-406
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+180
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 811
 LAB NO: 1034
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 812
 LAB NO: 1035
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	87
5.0	81
2.5	77
2.0	--
1.25	71
0.840	--
0.630	66
0.420	--
0.315	60
0.160	54
0.150	--
0.080	47

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	85
12.5	80
10.0	77
5.0	69
2.5	65
2.0	--
1.25	59
0.840	--
0.630	55
0.420	--
0.315	51
0.160	45
0.150	--
0.080	39

M.C. (%): 27

M.C. (%): 22

LIMITS

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

LIMITS

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

% GRAVEL: 19
 % SAND: 35
 % FINES: 47

% GRAVEL: 31
 % SAND: 30
 % FINES: 39

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-408
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+100 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 813
 LAB NO: 1036
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 814
 LAB NO: 1037
 DEPTH: 2.3-2.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	86
10.0	82
5.0	73
2.5	65
2.0	--
1.25	59
0.840	--
0.630	54
0.420	--
0.315	47
0.160	41
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	92
12.5	78
10.0	74
5.0	61
2.5	53
2.0	--
1.25	47
0.840	--
0.630	41
0.420	--
0.315	35
0.160	30
0.150	--
0.080	23

M.C. (%): 10

M.C. (%): 8

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

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

% GRAVEL: 27
 % SAND: 39
 % FINES: 34

% GRAVEL: 39
 % SAND: 38
 % FINES: 23

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-409
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+050 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 815
 LAB NO: 1038
 DEPTH: 2.6-2.8
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	96
10.0	95
5.0	87
2.5	81
2.0	--
1.25	72
0.840	--
0.630	67
0.420	--
0.315	61
0.160	55
0.150	--
0.080	47

M.C. (%): 17

LIMITS

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

% GRAVEL: 13
 % SAND: 39
 % FINES: 47

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-410
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+050
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 816
 LAB NO: 1039
 DEPTH: 2.8-3.0
 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	91
2.5	87
2.0	--
1.25	84
0.840	--
0.630	81
0.420	--
0.315	78
0.160	74
0.150	--
0.080	69

M.C. (%): 40

LIMITS

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

% GRAVEL: 9
 % SAND: 23
 % FINES: 69

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-411
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1790+065 O/S 15M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 817
 LAB NO: 1040
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 818
 LAB NO: 1041
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 819
 LAB NO: 1042
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	99
10.0	99
5.0	98
2.5	96
2.0	--
1.25	94
0.840	--
0.630	92
0.420	--
0.315	89
0.160	85
0.150	--
0.080	78

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	84
12.5	75
10.0	73
5.0	69
2.5	66
2.0	--
1.25	63
0.840	--
0.630	60
0.420	--
0.315	56
0.160	50
0.150	--
0.080	44

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	95
12.5	90
10.0	85
5.0	72
2.5	66
2.0	--
1.25	54
0.840	--
0.630	47
0.420	--
0.315	41
0.160	36
0.150	--
0.080	30

M.C. (%): 59

M.C. (%): 17

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: 2
 % SAND: 20
 % FINES: 78

% GRAVEL: 31
 % SAND: 24
 % FINES: 44

% GRAVEL: 28
 % SAND: 42
 % FINES: 30

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-412
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+975
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 820
 LAB NO: 1043
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 821
 LAB NO: 1044
 DEPTH: 2.8-3.0
 TYPE: AUGER

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

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	79
20.0	76
12.5	69
10.0	66
5.0	59
2.5	54
2.0	--
1.25	51
0.840	--
0.630	47
0.420	--
0.315	43
0.160	38
0.150	--
0.080	32

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	96
10.0	93
5.0	83
2.5	75
2.0	--
1.25	68
0.840	--
0.630	62
0.420	--
0.315	56
0.160	48
0.150	--
0.080	40

M.C. (%): 19

M.C. (%): 12

LIMITS

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

LIMITS

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

% GRAVEL: 41
 % SAND: 27
 % FINES: 32

% GRAVEL: 17
 % SAND: 43
 % FINES: 40

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-413
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+875
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 822
 LAB NO: 1045
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 823
 LAB NO: 1046
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 824
 LAB NO: 1047
 DEPTH: 4.3-4.5
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	--
12.5	--
10.0	--
5.0	--
2.5	100
2.0	--
1.25	100
0.840	--
0.630	99
0.420	--
0.315	99
0.160	98
0.150	--
0.080	97

M.C. (%): 92

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

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

CLASSIFICATION: SILT (ML)

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	93
12.5	91
10.0	87
5.0	80
2.5	75
2.0	--
1.25	70
0.840	--
0.630	66
0.420	--
0.315	60
0.160	53
0.150	--
0.080	45

M.C. (%): 14

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

% GRAVEL: 20
 % SAND: 36
 % FINES: 45

CLASSIFICATION: SILTY SAND WITH GRAVEL (SM)

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	93
2.5	87
2.0	--
1.25	81
0.840	--
0.630	75
0.420	--
0.315	69
0.160	62
0.150	--
0.080	54

M.C. (%): 12

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

% GRAVEL: 7
 % SAND: 39
 % FINES: 54

CLASSIFICATION: SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-414
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+775
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 825
 LAB NO: 1048
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 826
 LAB NO: 1049
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 827
 LAB NO: 1050
 DEPTH: 3.7-3.8
 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	99
0.840	--
0.630	99
0.420	--
0.315	98
0.160	98
0.150	--
0.080	97

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	86
2.5	77
2.0	--
1.25	70
0.840	--
0.630	64
0.420	--
0.315	58
0.160	52
0.150	--
0.080	44

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	94
12.5	92
10.0	90
5.0	81
2.5	72
2.0	--
1.25	65
0.840	--
0.630	60
0.420	--
0.315	54
0.160	48
0.150	--
0.080	41

M.C. (%): 58

M.C. (%): 15

M.C. (%): 13

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

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

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

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

% GRAVEL: 14
 % SAND: 42
 % FINES: 44

% GRAVEL: 19
 % SAND: 40
 % FINES: 41

CLASSIFICATION:
 SILT (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-415
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+675
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 828
 LAB NO: 1051
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 829
 LAB NO: 1052
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	87
10.0	85
5.0	79
2.5	73
2.0	--
1.25	65
0.840	--
0.630	60
0.420	--
0.315	55
0.160	48
0.150	--
0.080	42

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	91
12.5	88
10.0	87
5.0	79
2.5	72
2.0	--
1.25	65
0.840	--
0.630	59
0.420	--
0.315	54
0.160	48
0.150	--
0.080	40

M.C. (%): 16

M.C. (%): 16

LIMITS

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

LIMITS

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

% GRAVEL: 21
 % SAND: 37
 % FINES: 42

% GRAVEL: 21
 % SAND: 39
 % FINES: 40

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-416
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+575
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 830
 LAB NO: 1053
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 831
 LAB NO: 1054
 DEPTH: 3.8-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	90
10.0	85
5.0	77
2.5	71
2.0	--
1.25	64
0.840	--
0.630	60
0.420	--
0.315	54
0.160	47
0.150	--
0.080	40

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	89
20.0	89
12.5	88
10.0	87
5.0	81
2.5	73
2.0	--
1.25	67
0.840	--
0.630	62
0.420	--
0.315	56
0.160	50
0.150	--
0.080	44

M.C. (%): 12

M.C. (%): 9

LIMITS

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

LIMITS

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

% GRAVEL: 23
 % SAND: 37
 % FINES: 40

% GRAVEL: 19
 % SAND: 36
 % FINES: 44

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-417
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+500 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 832
 LAB NO: 1055
 DEPTH: 2.2-2.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	91
20.0	87
12.5	84
10.0	83
5.0	73
2.5	65
2.0	--
1.25	61
0.840	--
0.630	57
0.420	--
0.315	53
0.160	47
0.150	--
0.080	40

M.C. (%): 16

LIMITS

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

% GRAVEL: 27
 % SAND: 33
 % FINES: 40

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-418
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+500
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 833
 LAB NO: 1056
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 834
 LAB NO: 1057
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	61
31.5	--
25.0	57
20.0	57
12.5	51
10.0	49
5.0	43
2.5	39
2.0	--
1.25	36
0.840	--
0.630	33
0.420	--
0.315	30
0.160	27
0.150	--
0.080	23

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	91
12.5	88
10.0	87
5.0	80
2.5	73
2.0	--
1.25	67
0.840	--
0.630	62
0.420	--
0.315	57
0.160	50
0.150	--
0.080	43

M.C. (%): 15

M.C. (%): 13

LIMITS

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

LIMITS

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

% GRAVEL: 57
 % SAND: 20
 % FINES: 23

% GRAVEL: 20
 % SAND: 37
 % FINES: 43

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-419
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+500 O/S 15M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 835
 LAB NO: 1058
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	94
5.0	86
2.5	79
2.0	--
1.25	72
0.840	--
0.630	66
0.420	--
0.315	60
0.160	53
0.150	--
0.080	46

M.C. (%): 20

LIMITS

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

% GRAVEL: 14
 % SAND: 40
 % FINES: 46

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-420
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+400
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 836
 LAB NO: 1059
 DEPTH: 1.3-1.5
 TYPE: AUGER
 SAMPLE LOST

FIELD NO: 837
 LAB NO: 1060
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 838
 LAB NO: 1061
 DEPTH: 4.3-4.5
 TYPE: AUGER

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

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	80
12.5	77
10.0	74
5.0	65
2.5	60
2.0	--
1.25	55
0.840	--
0.630	52
0.420	--
0.315	47
0.160	41
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	97
10.0	94
5.0	83
2.5	73
2.0	--
1.25	65
0.840	--
0.630	59
0.420	--
0.315	51
0.160	44
0.150	--
0.080	37

M.C. (%): 18

M.C. (%): 29

M.C. (%): 9

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

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

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

% GRAVEL: --
 % SAND: --
 % FINES: --

% GRAVEL: 35
 % SAND: 30
 % FINES: 36

% GRAVEL: 17
 % SAND: 46
 % FINES: 37

CLASSIFICATION:

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-421
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+320 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 839
 LAB NO: 1062
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	92
20.0	92
12.5	78
10.0	73
5.0	58
2.5	51
2.0	--
1.25	46
0.840	--
0.630	42
0.420	--
0.315	37
0.160	32
0.150	--
0.080	27

M.C. (%): 15

LIMITS

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

% GRAVEL: 42
 % SAND: 31
 % FINES: 27

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-422
CLIENT: ENGINEERING-CAPITAL
PROJECT NAME: SHAKWAK PROJECT
PROJECT LOCATION: SEGMENT 12B
DRILL UNIT: 36-002
HOLE LOCATION: 1789+320
LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 840
LAB NO: 1063
DEPTH: 2.9-3.0
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	97
2.0	--
1.25	92
0.840	--
0.630	87
0.420	--
0.315	82
0.160	74
0.150	--
0.080	60

M.C. (%): 36

LIMITS

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

% GRAVEL: 0
% SAND: 40
% FINES: 60

CLASSIFICATION:
SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-423
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+320 O/S 20M RT
 LOGGED BY: CC DATE COMPLETED: 95.08.03

FIELD NO: 841
 LAB NO: 1064
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 842
 LAB NO: 1065
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 843
 LAB NO: 1066
 DEPTH: 4.3-4.5
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	75
20.0	73
12.5	69
10.0	65
5.0	55
2.5	49
2.0	--
1.25	42
0.840	--
0.630	38
0.420	--
0.315	33
0.160	28
0.150	--
0.080	24

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

100.0	--
80.0	100
50.0	61
31.5	--
25.0	43
20.0	41
12.5	37
10.0	35
5.0	30
2.5	28
2.0	--
1.25	26
0.840	--
0.630	24
0.420	--
0.315	22
0.160	20
0.150	--
0.080	17

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	77
12.5	74
10.0	70
5.0	64
2.5	60
2.0	--
1.25	57
0.840	--
0.630	54
0.420	--
0.315	50
0.160	45
0.150	--
0.080	40

M.C. (%): 47

M.C. (%): 10

M.C. (%): 26

LIMITS

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

LIMITS

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

LIMITS

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

% GRAVEL: 45
 % SAND: 32
 % FINES: 24

% GRAVEL: 70
 % SAND: 13
 % FINES: 17

% GRAVEL: 36
 % SAND: 24
 % FINES: 40

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY GRAVEL (GM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-424
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+200
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 844
 LAB NO: 1067
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 845
 LAB NO: 1068
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	98
10.0	96
5.0	88
2.5	82
2.0	--
1.25	77
0.840	--
0.630	73
0.420	--
0.315	68
0.160	63
0.150	--
0.080	57

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	90
10.0	87
5.0	77
2.5	69
2.0	--
1.25	62
0.840	--
0.630	57
0.420	--
0.315	50
0.160	44
0.150	--
0.080	37

M.C. (%): 30

M.C. (%): 11

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

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

% GRAVEL: 12
 % SAND: 32
 % FINES: 57

% GRAVEL: 23
 % SAND: 40
 % FINES: 37

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-425
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+175 O/S 80M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 846
 LAB NO: 1069
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	87
12.5	80
10.0	76
5.0	65
2.5	59
2.0	--
1.25	53
0.840	--
0.630	49
0.420	--
0.315	44
0.160	39
0.150	--
0.080	33

M.C. (%): 11

LIMITS

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

% GRAVEL: 35
 % SAND: 32
 % FINES: 33

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-426
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+075 O/S 80M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 847
 LAB NO: 1070
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 848
 LAB NO: 1071
 DEPTH: 2.8-3.0
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	86
10.0	82
5.0	75
2.5	67
2.0	--
1.25	61
0.840	--
0.630	55
0.420	--
0.315	48
0.160	42
0.150	--
0.080	36

M.C. (%): 17

LIMITS

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

% GRAVEL: 25
 % SAND: 38
 % FINES: 36

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	88
10.0	83
5.0	74
2.5	68
2.0	--
1.25	62
0.840	--
0.630	57
0.420	--
0.315	52
0.160	46
0.150	--
0.080	40

M.C. (%): 13

LIMITS

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

% GRAVEL: 26
 % SAND: 34
 % FINES: 40

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-427
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+100
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 849
 LAB NO: 1072
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 850
 LAB NO: 1073
 DEPTH: 2.7-2.9
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	93
10.0	89
5.0	85
2.5	82
2.0	--
1.25	78
0.840	--
0.630	76
0.420	--
0.315	73
0.160	70
0.150	--
0.080	67

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	93
10.0	90
5.0	77
2.5	69
2.0	--
1.25	61
0.840	--
0.630	55
0.420	--
0.315	48
0.160	42
0.150	--
0.080	36

M.C. (%): 28

M.C. (%): 15

LIMITS

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

LIMITS

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

% GRAVEL: 15
 % SAND: 18
 % FINES: 67

% GRAVEL: 23
 % SAND: 41
 % FINES: 36

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-428
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1789+000
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 851
 LAB NO: 1074
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 852
 LAB NO: 1075
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 853
 LAB NO: 1076
 DEPTH: 3.9-4.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	65
20.0	63
12.5	58
10.0	56
5.0	51
2.5	49
2.0	--
1.25	46
0.840	--
0.630	44
0.420	--
0.315	41
0.160	38
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	89
12.5	83
10.0	80
5.0	73
2.5	68
2.0	--
1.25	63
0.840	--
0.630	59
0.420	--
0.315	54
0.160	48
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	97
5.0	86
2.5	77
2.0	--
1.25	71
0.840	--
0.630	65
0.420	--
0.315	58
0.160	49
0.150	--
0.080	40

M.C. (%): 15

M.C. (%): 18

M.C. (%): 19

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

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

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

% GRAVEL: 49
 % SAND: 17
 % FINES: 34

% GRAVEL: 27
 % SAND: 31
 % FINES: 42

% GRAVEL: 14
 % SAND: 46
 % FINES: 40

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-429
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+900
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 854
 LAB NO: 1077
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	93
12.5	90
10.0	87
5.0	79
2.5	72
2.0	--
1.25	66
0.840	--
0.630	62
0.420	--
0.315	56
0.160	50
0.150	--
0.080	43

M.C. (%): 14

LIMITS

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

% GRAVEL: 21
 % SAND: 36
 % FINES: 43

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-430
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+850
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 855
 LAB NO: 1078
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	99
12.5	93
10.0	88
5.0	69
2.5	56
2.0	--
1.25	47
0.840	--
0.630	39
0.420	--
0.315	30
0.160	24
0.150	--
0.080	20

M.C. (%): 11

LIMITS

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

% GRAVEL: 31
 % SAND: 50
 % FINES: 20

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-431
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+825 O/S 15M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 856
 LAB NO: 1079
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 857
 LAB NO: 1080
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 858
 LAB NO: 1081
 DEPTH: 4.3-4.5
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	90
12.5	80
10.0	74
5.0	61
2.5	51
2.0	--
1.25	44
0.840	--
0.630	39
0.420	--
0.315	35
0.160	31
0.150	--
0.080	26

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	94
10.0	93
5.0	86
2.5	80
2.0	--
1.25	73
0.840	--
0.630	68
0.420	--
0.315	61
0.160	54
0.150	--
0.080	47

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	96
20.0	95
12.5	92
10.0	90
5.0	86
2.5	82
2.0	--
1.25	77
0.840	--
0.630	73
0.420	--
0.315	67
0.160	61
0.150	--
0.080	55

M.C. (%): 14

M.C. (%): 17

M.C. (%): 15

LIMITS

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

LIMITS

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

LIMITS

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

% GRAVEL: 39
 % SAND: 35
 % FINES: 26

% GRAVEL: 14
 % SAND: 40
 % FINES: 47

% GRAVEL: 14
 % SAND: 31
 % FINES: 55

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-433
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+700
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 862
 LAB NO: 1085
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 863
 LAB NO: 1086
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 864
 LAB NO: 1087
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	91
10.0	89
5.0	83
2.5	79
2.0	--
1.25	74
0.840	--
0.630	70
0.420	--
0.315	63
0.160	57
0.150	--
0.080	49

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	95
10.0	92
5.0	87
2.5	83
2.0	--
1.25	79
0.840	--
0.630	76
0.420	--
0.315	71
0.160	66
0.150	--
0.080	60

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	97
20.0	95
12.5	95
10.0	94
5.0	87
2.5	81
2.0	--
1.25	76
0.840	--
0.630	72
0.420	--
0.315	66
0.160	61
0.150	--
0.080	55

M.C. (%): 11

M.C. (%): 18

M.C. (%): 20

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

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

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

% GRAVEL: 17
 % SAND: 34
 % FINES: 49

% GRAVEL: 13
 % SAND: 28
 % FINES: 60

% GRAVEL: 13
 % SAND: 31
 % FINES: 55

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-434
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+625
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 865
 LAB NO: 1088
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 866
 LAB NO: 1089
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 867
 LAB NO: 1090
 DEPTH: 4.3-4.5
 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	95
0.160	88
0.150	--
0.080	73

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	89
2.5	82
2.0	--
1.25	76
0.840	--
0.630	71
0.420	--
0.315	66
0.160	53
0.150	--
0.080	34

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	--
20.0	100
12.5	94
10.0	92
5.0	87
2.5	81
2.0	--
1.25	78
0.840	--
0.630	75
0.420	--
0.315	71
0.160	63
0.150	--
0.080	51

M.C. (%): 21

M.C. (%): 11

M.C. (%): 23

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

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

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

% GRAVEL: 0
 % SAND: 27
 % FINES: 73

% GRAVEL: 11
 % SAND: 55
 % FINES: 34

% GRAVEL: 13
 % SAND: 36
 % FINES: 51

CLASSIFICATION:
 SILT WITH SAND
 (ML)

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-435
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+540
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 868
 LAB NO: 1091
 DEPTH: 1.3-1.5
 TYPE: AUGER
 ORGANIC

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	99
0.840	--
0.630	98
0.420	--
0.315	96
0.160	92
0.150	--
0.080	84

M.C. (%): 15

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

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

CLASSIFICATION:
 SILT WITH SAND
 (ML)

FIELD NO: 869
 LAB NO: 1092
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	91
10.0	90
5.0	85
2.5	82
2.0	--
1.25	80
0.840	--
0.630	78
0.420	--
0.315	72
0.160	57
0.150	--
0.080	42

M.C. (%): 14

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

% GRAVEL: 15
 % SAND: 43
 % FINES: 42

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

FIELD NO: 870
 LAB NO: 1093
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	95
20.0	95
12.5	92
10.0	91
5.0	85
2.5	82
2.0	--
1.25	77
0.840	--
0.630	71
0.420	--
0.315	60
0.160	46
0.150	--
0.080	34

M.C. (%): 13

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

% GRAVEL: 15
 % SAND: 51
 % FINES: 34

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-436
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+435
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 871
 LAB NO: 1094
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 872
 LAB NO: 1095
 DEPTH: 5.8-6.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	90
20.0	85
12.5	82
10.0	80
5.0	74
2.5	71
2.0	--
1.25	67
0.840	--
0.630	63
0.420	--
0.315	58
0.160	52
0.150	--
0.080	46

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	81
12.5	79
10.0	78
5.0	72
2.5	69
2.0	--
1.25	65
0.840	--
0.630	61
0.420	--
0.315	56
0.160	50
0.150	--
0.080	44

M.C. (%): 7

M.C. (%): 20

LIMITS

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

LIMITS

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

% GRAVEL: 26
 % SAND: 29
 % FINES: 46

% GRAVEL: 28
 % SAND: 28
 % FINES: 44

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-437
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+350
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 873
 LAB NO: 1096
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 874
 LAB NO: 1097
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 875
 LAB NO: 1098
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	76
12.5	67
10.0	66
5.0	62
2.5	58
2.0	--
1.25	54
0.840	--
0.630	51
0.420	--
0.315	47
0.160	42
0.150	--
0.080	36

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	83
20.0	82
12.5	80
10.0	78
5.0	74
2.5	70
2.0	--
1.25	67
0.840	--
0.630	64
0.420	--
0.315	60
0.160	54
0.150	--
0.080	48

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	100
31.5	--
25.0	81
20.0	81
12.5	76
10.0	75
5.0	72
2.5	68
2.0	--
1.25	65
0.840	--
0.630	62
0.420	--
0.315	57
0.160	52
0.150	--
0.080	46

M.C. (%): 7

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: 38
 % SAND: 26
 % FINES: 36

% GRAVEL: 26
 % SAND: 26
 % FINES: 48

% GRAVEL: 28
 % SAND: 26
 % FINES: 46

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-438
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+200 O/S 20M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 876
 LAB NO: 1099
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 877
 LAB NO: 1100
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 878
 LAB NO: 1101
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	90
10.0	89
5.0	81
2.5	65
2.0	--
1.25	72
0.840	--
0.630	69
0.420	--
0.315	65
0.160	60
0.150	--
0.080	52

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	98
12.5	94
10.0	93
5.0	88
2.5	83
2.0	--
1.25	79
0.840	--
0.630	76
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	100
20.0	98
12.5	96
10.0	94
5.0	91
2.5	88
2.0	--
1.25	84
0.840	--
0.630	81
0.420	--
0.315	76
0.160	70
0.150	--
0.080	63

M.C. (%): 25

M.C. (%): 16

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: 19
 % SAND: 28
 % FINES: 52

% GRAVEL: 12
 % SAND: 26
 % FINES: 62

% GRAVEL: 9
 % SAND: 28
 % FINES: 63

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

CLASSIFICATION:
 SANDY SILT (ML)

CLASSIFICATION:
 SANDY SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-439
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1788+050 O/S 8M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 879
 LAB NO: 1102
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 880
 LAB NO: 1103
 DEPTH: 4.3-4.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	100
50.0	78
31.5	--
25.0	67
20.0	67
12.5	63
10.0	61
5.0	57
2.5	54
2.0	--
1.25	51
0.840	--
0.630	48
0.420	--
0.315	45
0.160	41
0.150	--
0.080	36

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	99
0.840	--
0.630	99
0.420	--
0.315	98
0.160	97
0.150	--
0.080	96

M.C. (%): 12

M.C. (%): 22

LIMITS

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

LIMITS

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

% GRAVEL: 43
 % SAND: 21
 % FINES: 36

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

CLASSIFICATION:
 SILTY GRAVEL
 WITH SAND (GM)

CLASSIFICATION:
 SILT (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-440
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1787+900 O/S 8M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 881
 LAB NO: 1104
 DEPTH: 1.8-2.0
 TYPE: AUGER

FIELD NO: 882
 LAB NO: 1105
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 883
 LAB NO: 1106
 DEPTH: 4.3-4.5
 TYPE: AUGER

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	89
2.5	85
2.0	--
1.25	81
0.840	--
0.630	76
0.420	--
0.315	69
0.160	60
0.150	--
0.080	49

SIEVE SIZE	PERCENT PASSING
100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	91
10.0	88
5.0	82
2.5	77
2.0	--
1.25	73
0.840	--
0.630	68
0.420	--
0.315	62
0.160	53
0.150	--
0.080	44

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	95
2.5	94
2.0	--
1.25	92
0.840	--
0.630	90
0.420	--
0.315	88
0.160	84
0.150	--
0.080	80

M.C. (%): 12

M.C. (%): 12

M.C. (%): 17

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

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

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

% GRAVEL: 11
 % SAND: 40
 % FINES: 49

% GRAVEL: 18
 % SAND: 38
 % FINES: 44

% GRAVEL: 5
 % SAND: 16
 % FINES: 80

CLASSIFICATION:
 SILTY SAND (SM)

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

CLASSIFICATION:
 SILT WITH SAND
 (ML)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-441
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1787+750 O/S 8M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 884
 LAB NO: 1107
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 885
 LAB NO: 1108
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 886
 LAB NO: 1109
 DEPTH: 4.3-4.5
 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	94
2.5	91
2.0	--
1.25	87
0.840	--
0.630	83
0.420	--
0.315	79
0.160	74
0.150	--
0.080	65

M.C. (%): 15

LIMITS

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

% GRAVEL: 6
 % SAND: 29
 % FINES: 65

CLASSIFICATION: SANDY SILT (ML)

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	80
20.0	78
12.5	75
10.0	73
5.0	68
2.5	64
2.0	--
1.25	59
0.840	--
0.630	55
0.420	--
0.315	49
0.160	42
0.150	--
0.080	34

M.C. (%): 8

LIMITS

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

% GRAVEL: 32
 % SAND: 34
 % FINES: 34

CLASSIFICATION: SILTY SAND WITH GRAVEL (SM)

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	87
20.0	80
12.5	77
10.0	75
5.0	70
2.5	66
2.0	--
1.25	63
0.840	--
0.630	59
0.420	--
0.315	55
0.160	49
0.150	--
0.080	43

M.C. (%): 11

LIMITS

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

% GRAVEL: 30
 % SAND: 27
 % FINES: 43

CLASSIFICATION: SILTY GRAVEL WITH SAND (GM)

PROJECT NUMBER: 092-202101-0328-1 HOLE NUMBER: 373-442
 CLIENT: ENGINEERING-CAPITAL
 PROJECT NAME: SHAKWAK PROJECT
 PROJECT LOCATION: SEGMENT 12B
 DRILL UNIT: 36-002
 HOLE LOCATION: 1787+550 O/S 12M LT
 LOGGED BY: CC DATE COMPLETED: 95.08.04

FIELD NO: 887
 LAB NO: 1110
 DEPTH: 1.3-1.5
 TYPE: AUGER

FIELD NO: 888
 LAB NO: 1111
 DEPTH: 2.8-3.0
 TYPE: AUGER

FIELD NO: 889
 LAB NO: 1112
 DEPTH: 4.3-4.5
 TYPE: AUGER

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	96
12.5	92
10.0	90
5.0	85
2.5	79
2.0	--
1.25	73
0.840	--
0.630	70
0.420	--
0.315	65
0.160	59
0.150	--
0.080	51

M.C. (%): 12

LIMITS

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

% GRAVEL: 15
 % SAND: 34
 % FINES: 51

CLASSIFICATION:
 SANDY SILT WITH
 GRAVEL (ML)

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

100.0	--
80.0	--
50.0	100
31.5	--
25.0	94
20.0	92
12.5	87
10.0	84
5.0	77
2.5	71
2.0	--
1.25	64
0.840	--
0.630	58
0.420	--
0.315	49
0.160	33
0.150	--
0.080	25

M.C. (%): 10

LIMITS

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

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

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

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

100.0	--
80.0	--
50.0	--
31.5	--
25.0	100
20.0	97
12.5	90
10.0	89
5.0	81
2.5	74
2.0	--
1.25	68
0.840	--
0.630	63
0.420	--
0.315	57
0.160	49
0.150	--
0.080	41

M.C. (%): 9

LIMITS

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

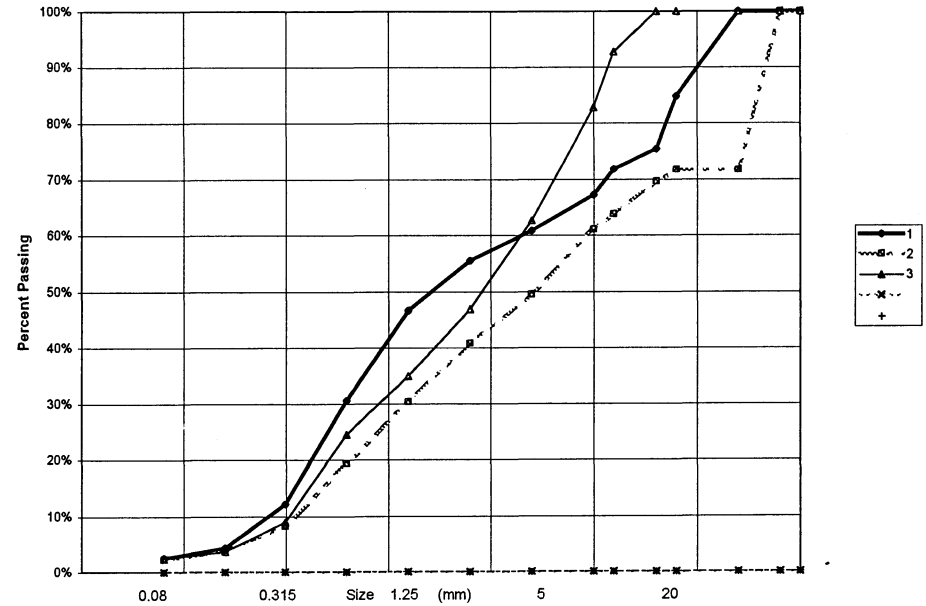
% GRAVEL: 19
 % SAND: 39
 % FINES: 41

CLASSIFICATION:
 SILTY SAND WITH
 GRAVEL (SM)

PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-242
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1796+700 9M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD No. 1		FIELD No. 2		FIELD No. 3	
LAB NO:	1211	LAB No:	1212	LAB No:	1213
DEPTH:	1.2-1.4	DEPTH:	2.6-2.8	DEPTH:	4.5-4.7
TYPE:	AUGER	TYPE:	AUGER	TYPE:	AUGER
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	72%	50.0	100%
25.0	85%	25.0	72%	25.0	100%
20.0	75%	20.0	70%	20.0	100%
12.5	72%	12.5	64%	12.5	93%
10.0	67%	10.0	61%	10.0	83%
5.0	61%	5.0	49%	5.0	63%
2.5	55%	2.5	41%	2.5	47%
1.25	47%	1.25	30%	1.25	35%
0.630	31%	0.630	19%	0.630	24%
0.315	12%	0.315	8%	0.315	9%
0.160	4%	0.160	4%	0.160	4%
0.080	3%	0.080	2%	0.080	2%
M.C.(%):	2%	M.C.(%):	2%	M.C.(%):	2%
LIMITS		LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0	P.I.:	0.0
% GRAVEL:	39	% GRAVEL:	51	% GRAVEL:	37
% SAND:	58	% SAND:	47	% SAND:	60
% FINES:	3	% FINES:	2	% FINES:	2
CLASSIFICATION:	WELL-GRADED SAND WITH GRAVEL (SW)	CLASSIFICATION:	POORLY GRADED GRAVEL WITH SAND (GP)	CLASSIFICATION:	WELL-GRADED SAND WITH GRAVEL (SW)

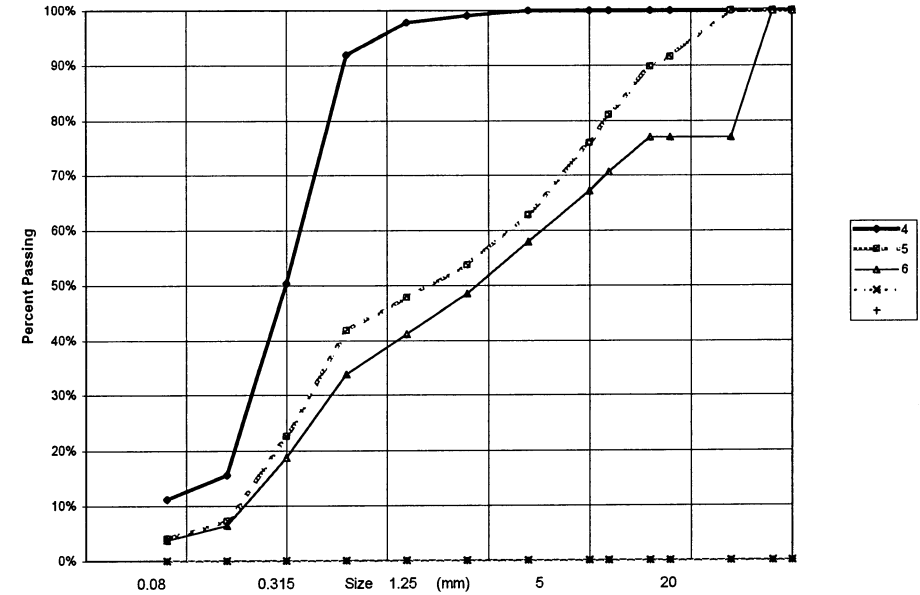
YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-243
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1796+750 7M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 4		FIELD No. 5		FIELD No: 6	
LAB NO:	1214	LAB No.	1215	LAB No:	1216
DEPTH:	1.4-1.6	DEPTH	2.9-3.0	DEPTH:	4.4-4.6
TYPE:	AUGER	TYPE	AUGER	TYPE:	AUGER
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	77%
25.0	100%	25.0	92%	25.0	77%
20.0	100%	20.0	90%	20.0	77%
12.5	100%	12.5	81%	12.5	71%
10.0	100%	10.0	76%	10.0	67%
5.0	100%	5.0	63%	5.0	58%
2.5	99%	2.5	54%	2.5	49%
1.25	98%	1.25	48%	1.25	41%
0.630	92%	0.630	42%	0.630	34%
0.315	50%	0.315	23%	0.315	19%
0.160	16%	0.160	7%	0.160	6%
0.080	11%	0.080	4%	0.080	4%
M.C.(%):	5%	M.C.(%):	3%	M.C.(%):	2%
LIMITS		LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0	P.I.:	0.0
% GRAVEL:	0	% GRAVEL:	37	% GRAVEL:	42
% SAND:	89	% SAND:	59	% SAND:	54
% FINES:	11	% FINES:	4	% FINES:	4
CLASSIFICATION:		CLASSIFICATION:		CLASSIFICATION:	
POORLY GRADED SAND WITH SILT (SP-SM)		WELL-GRADED SAND WITH GRAVEL (SW)		WELL-GRADED SAND WITH GRAVEL (SW)	

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-244
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1796+800 6M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 7	FIELD No. 8	FIELD No: 9
LAB NO: 1217	LAB No. 1218	LAB No: 1219
DEPTH: 1.3-1.5	DEPTH 2.8-3.0	DEPTH: 4.3-4.5
TYPE: AUGER	TYPE AUGER	TYPE: AUGER

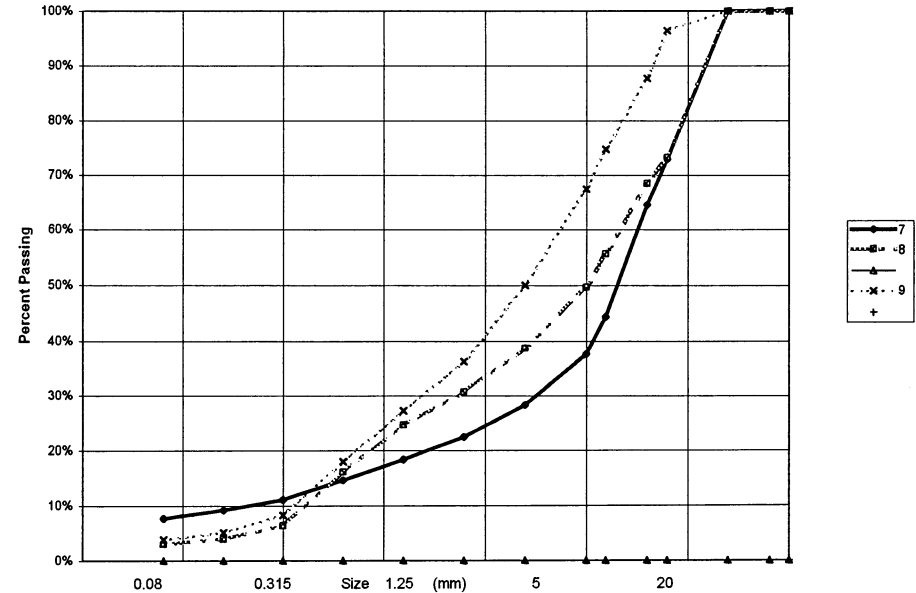
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%
25.0	73%	25.0	73%	25.0	96%
20.0	65%	20.0	69%	20.0	88%
12.5	44%	12.5	56%	12.5	75%
10.0	38%	10.0	50%	10.0	67%
5.0	28%	5.0	39%	5.0	50%
2.5	22%	2.5	31%	2.5	36%
1.25	18%	1.25	25%	1.25	27%
0.630	15%	0.630	16%	0.630	18%
0.315	11%	0.315	6%	0.315	8%
0.160	9%	0.160	4%	0.160	5%
0.080	8%	0.080	3%	0.080	4%

M.C.(%):	2%	M.C.(%):	2%	M.C.(%):	2%
LIMITS		LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0	P.I.:	0.0

% GRAVEL:	72	% GRAVEL:	61	% GRAVEL:	50
% SAND:	21	% SAND:	36	% SAND:	46
% FINES:	8	% FINES:	3	% FINES:	4

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

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-245
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1781-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1796+873 8M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 10	FIELD No. 11	FIELD No: 12
LAB NO: 1220	LAB No. 1221	LAB No: 1222
DEPTH: 1.3-1.5	DEPTH 2.8-3.0	DEPTH: 4.4-4.6
TYPE: AUGER	TYPE AUGER	TYPE: AUGER

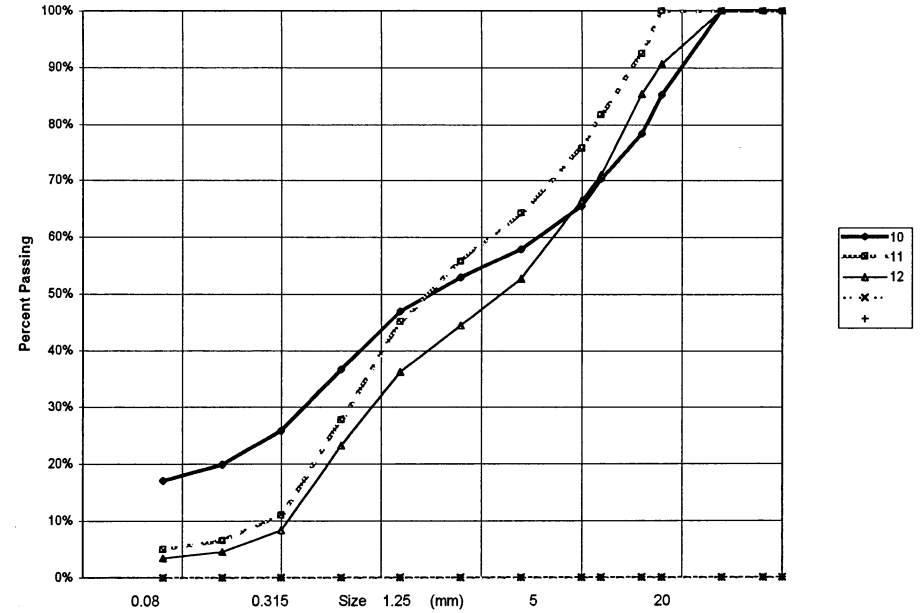
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%
25.0	85%	25.0	100%	25.0	91%
20.0	78%	20.0	93%	20.0	85%
12.5	70%	12.5	82%	12.5	71%
10.0	66%	10.0	76%	10.0	67%
5.0	58%	5.0	64%	5.0	53%
2.5	53%	2.5	56%	2.5	45%
1.25	47%	1.25	45%	1.25	36%
0.630	37%	0.630	28%	0.630	23%
0.315	26%	0.315	11%	0.315	8%
0.160	20%	0.160	7%	0.160	5%
0.080	17%	0.080	5%	0.080	3%

M.C.(%): 7%	M.C.(%): 3%	M.C.(%): 3%
LIMITS	LIMITS	LIMITS
LIQUID: 0.0	LIQUID: 0.0	LIQUID: 0.0
PLASTIC: 0.0	PLASTIC: 0.0	PLASTIC: 0.0
P.I.: 0.0	P.I.: 0.0	P.I.: 0.0

% GRAVEL: 42	% GRAVEL: 36	% GRAVEL: 47
% SAND: 41	% SAND: 59	% SAND: 49
% FINES: 17	% FINES: 5	% FINES: 3

CLASSIFICATION: SILTY GRAVEL WITH SAND (GM)	CLASSIFICATION: WELL-GRADED SAND WITH GRAVEL (SW)	CLASSIFICATION: WELL-GRADED SAND WITH GRAVEL (SW)
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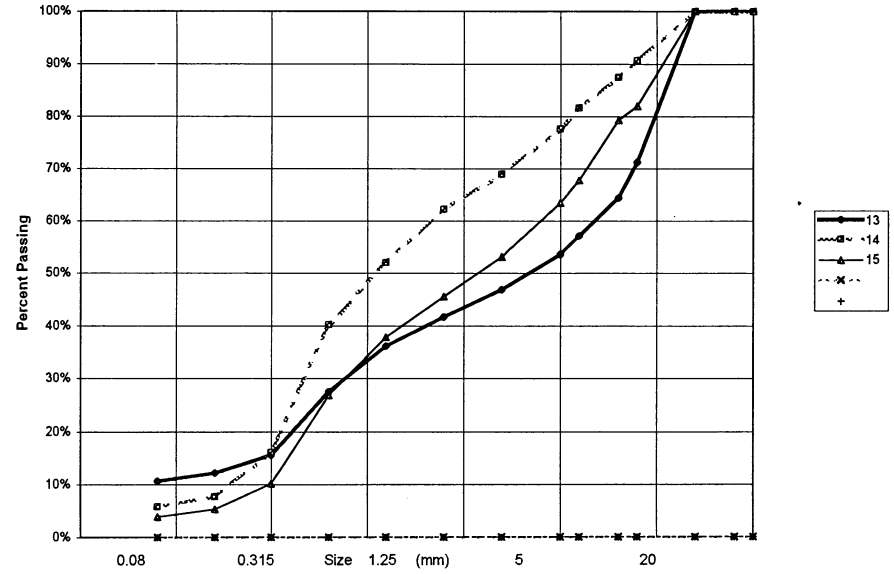
YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-246
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1796+950 6M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 13		FIELD No. 14		FIELD No: 15	
LAB NO: 1223		LAB No. 1224		LAB No: 1225	
DEPTH: 1.2-1.4		DEPTH 2.8-3.0		DEPTH: 4.4-4.6	
TYPE: AUGER		TYPE AUGER		TYPE: AUGER	
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%
25.0	71%	25.0	91%	25.0	82%
20.0	64%	20.0	87%	20.0	79%
12.5	57%	12.5	82%	12.5	68%
10.0	54%	10.0	78%	10.0	63%
5.0	47%	5.0	69%	5.0	53%
2.5	42%	2.5	62%	2.5	46%
1.25	36%	1.25	52%	1.25	38%
0.630	27%	0.630	40%	0.630	27%
0.315	16%	0.315	16%	0.315	10%
0.160	12%	0.160	8%	0.160	5%
0.080	11%	0.080	6%	0.080	4%
M.C.(%):	3%	M.C.(%):	2%	M.C.(%):	2%
LIMITS		LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0	P.I.:	0.0
% GRAVEL:	53	% GRAVEL:	31	% GRAVEL:	47
% SAND:	36	% SAND:	63	% SAND:	49
% FINES:	11	% FINES:	6	% FINES:	4
CLASSIFICATION:		CLASSIFICATION:		CLASSIFICATION:	
POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		POORLY GRADED SAND WITH SILT & GRAVEL (SP-SM)		WELL-GRADED SAND WITH GRAVEL (SW)	

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-247
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1797+025 15M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 16	FIELD No. 17	FIELD No: 18
LAB NO: 1226	LAB No. 1227	LAB No: 1228
DEPTH: 1.2-1.3	DEPTH 2.6-2.8	DEPTH: 4.4-4.6
TYPE: AUGER	TYPE AUGER	TYPE: AUGER

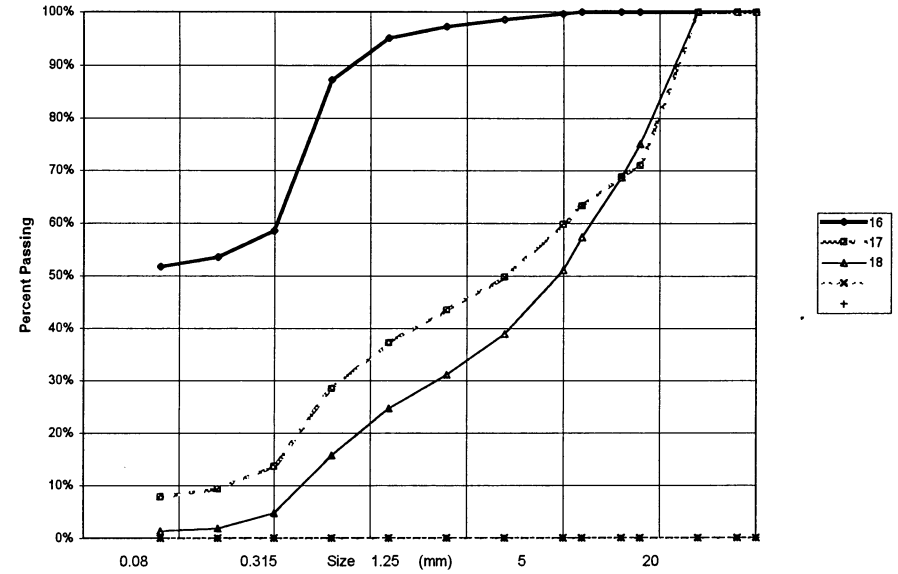
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%
25.0	100%	25.0	71%	25.0	75%
20.0	100%	20.0	69%	20.0	69%
12.5	100%	12.5	63%	12.5	57%
10.0	100%	10.0	60%	10.0	51%
5.0	99%	5.0	50%	5.0	39%
2.5	97%	2.5	44%	2.5	31%
1.25	95%	1.25	37%	1.25	25%
0.630	87%	0.630	28%	0.630	16%
0.315	59%	0.315	14%	0.315	5%
0.160	54%	0.160	9%	0.160	2%
0.080	52%	0.080	8%	0.080	1%

M.C.(%): 11%	M.C.(%): 3%	M.C.(%): 1%
LIMITS	LIMITS	LIMITS
LIQUID: 0.0	LIQUID: 0.0	LIQUID: 0.0
PLASTIC: 0.0	PLASTIC: 0.0	PLASTIC: 0.0
P.I.: 0.0	P.I.: 0.0	P.I.: 0.0

% GRAVEL: 1	% GRAVEL: 50	% GRAVEL: 61
% SAND: 47	% SAND: 42	% SAND: 38
% FINES: 52	% FINES: 8	% FINES: 1

CLASSIFICATION: SANDY SILT (ML)	CLASSIFICATION: POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	CLASSIFICATION: POORLY GRADED GRAVEL WITH SAND (GP)
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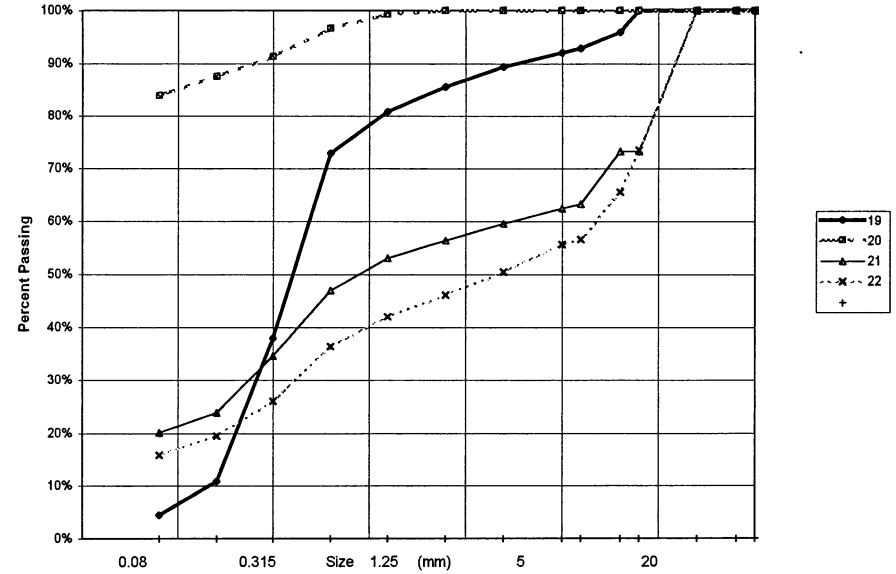
YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-248
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1797+100 8M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 19		FIELD No. 20		FIELD No: 21		FIELD No: 22	
LAB NO:	1229	LAB No.	1230	LAB No:	1231	LAB No:	1232
DEPTH:	.6-.8	DEPTH	1.8-1.9	DEPTH:	2.8-2.9	DEPTH:	4.6-4.7
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%	100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%	50.0	100%
25.0	100%	25.0	100%	25.0	73%	25.0	73%
20.0	96%	20.0	100%	20.0	73%	20.0	66%
12.5	93%	12.5	100%	12.5	63%	12.5	57%
10.0	92%	10.0	100%	10.0	62%	10.0	56%
5.0	89%	5.0	100%	5.0	59%	5.0	51%
2.5	86%	2.5	100%	2.5	56%	2.5	46%
1.25	81%	1.25	99%	1.25	53%	1.25	42%
0.630	73%	0.630	97%	0.630	47%	0.630	36%
0.315	38%	0.315	91%	0.315	35%	0.315	26%
0.160	11%	0.160	87%	0.160	24%	0.160	19%
0.080	5%	0.080	84%	0.080	20%	0.080	16%
M.C.(%):	3%	M.C.(%):	6%	M.C.(%):	7%	M.C.(%):	8%
LIMITS		LIMITS		LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0	P.I.:	0.0	P.I.:	0.0
% GRAVEL:	11	% GRAVEL:	0	% GRAVEL:	41	% GRAVEL:	49
% SAND:	85	% SAND:	16	% SAND:	39	% SAND:	35
% FINES:	5	% FINES:	84	% FINES:	20	% FINES:	16
CLASSIFICATION:	POORLY GRADED SAND (SP)	CLASSIFICATION:	SILT WITH SAND (ML)	CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)	CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)

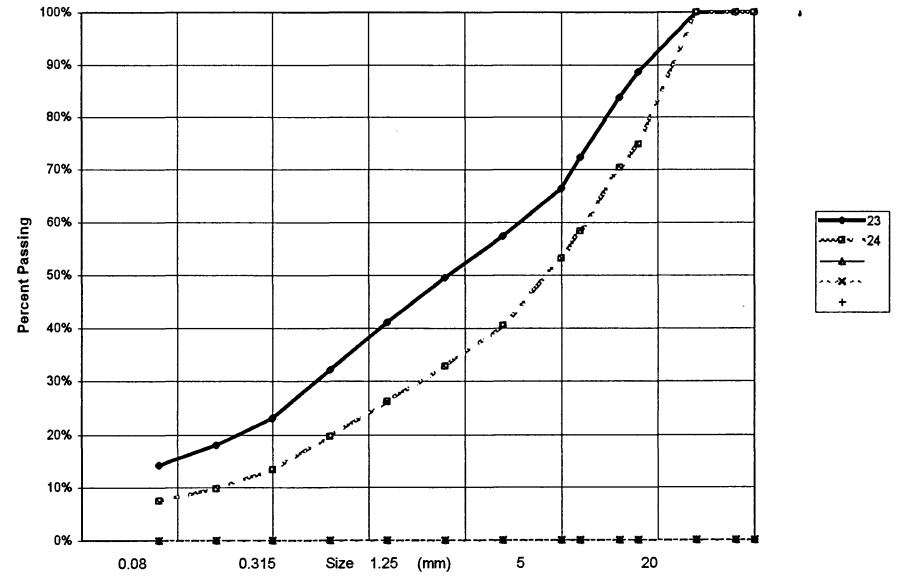
YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-249
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1797+175 7M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%
80.0	100%	80.0	100%
50.0	100%	50.0	100%
25.0	89%	25.0	75%
20.0	84%	20.0	70%
12.5	72%	12.5	58%
10.0	66%	10.0	53%
5.0	57%	5.0	40%
2.5	50%	2.5	33%
1.25	41%	1.25	26%
0.630	32%	0.630	20%
0.315	23%	0.315	13%
0.160	18%	0.160	10%
0.080	14%	0.080	8%
M.C.(%):	7%	M.C.(%):	5%
LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0
% GRAVEL:	43	% GRAVEL:	60
% SAND:	43	% SAND:	33
% FINES:	14	% FINES:	8
CLASSIFICATION:		CLASSIFICATION:	
SILTY SAND WITH GRAVEL (SM)		POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	

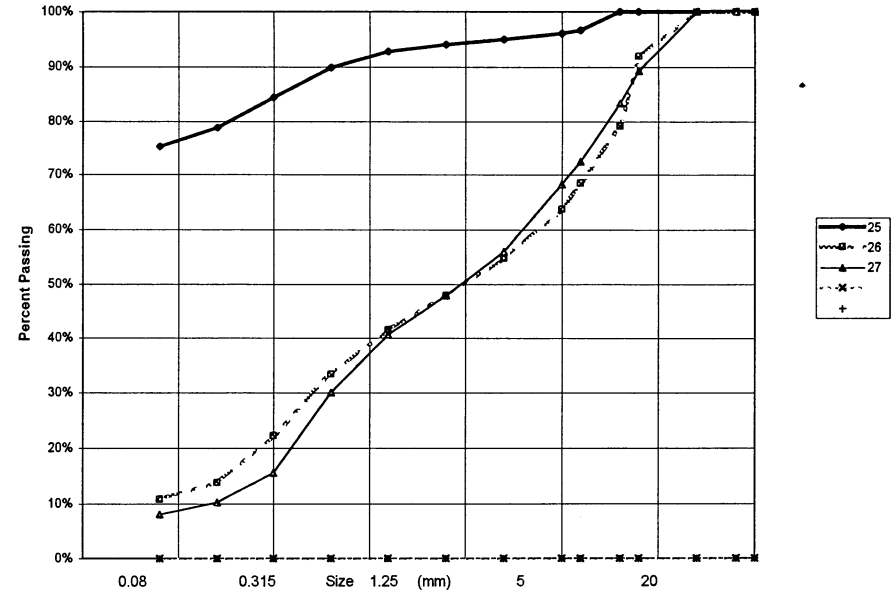
YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-250
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1797+252 7M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 25		FIELD No. 26		FIELD No: 27	
LAB NO: 1235		LAB No. 1236		LAB No: 1237	
DEPTH: 1.1-1.3		DEPTH 2.0-2.2		DEPTH: 4.4-4.6	
TYPE: AUGER		TYPE AUGER		TYPE: AUGER	
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%
25.0	100%	25.0	92%	25.0	89%
20.0	100%	20.0	79%	20.0	83%
12.5	97%	12.5	68%	12.5	73%
10.0	96%	10.0	64%	10.0	68%
5.0	95%	5.0	55%	5.0	56%
2.5	94%	2.5	48%	2.5	48%
1.25	93%	1.25	42%	1.25	41%
0.630	90%	0.630	33%	0.630	30%
0.315	84%	0.315	22%	0.315	16%
0.160	79%	0.160	14%	0.160	10%
0.080	75%	0.080	11%	0.080	8%
M.C.(%):	0%	M.C.(%):	4%	M.C.(%):	3%
LIMITS		LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0	P.I.:	0.0
% GRAVEL:	5	% GRAVEL:	45	% GRAVEL:	44
% SAND:	20	% SAND:	44	% SAND:	48
% FINES:	75	% FINES:	11	% FINES:	8
CLASSIFICATION:		CLASSIFICATION:		CLASSIFICATION:	
SILT WITH SAND (ML)		POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-251
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1797+352 11M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 28	FIELD No. 29	FIELD No: 30
LAB NO: 1238	LAB No. 1239	LAB No: 1340
DEPTH: 1.3-1.4	DEPTH 2.8-3.0	DEPTH: 4.4-4.6
TYPE: AUGER	TYPE AUGER	TYPE: AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	96%	50.0	100%
25.0	100%	25.0	70%	25.0	92%
20.0	100%	20.0	69%	20.0	87%
12.5	99%	12.5	59%	12.5	71%
10.0	99%	10.0	54%	10.0	65%
5.0	97%	5.0	44%	5.0	49%
2.5	96%	2.5	37%	2.5	41%
1.25	94%	1.25	31%	1.25	35%
0.630	92%	0.630	26%	0.630	30%
0.315	83%	0.315	18%	0.315	22%
0.160	78%	0.160	13%	0.160	16%
0.080	74%	0.080	10%	0.080	12%

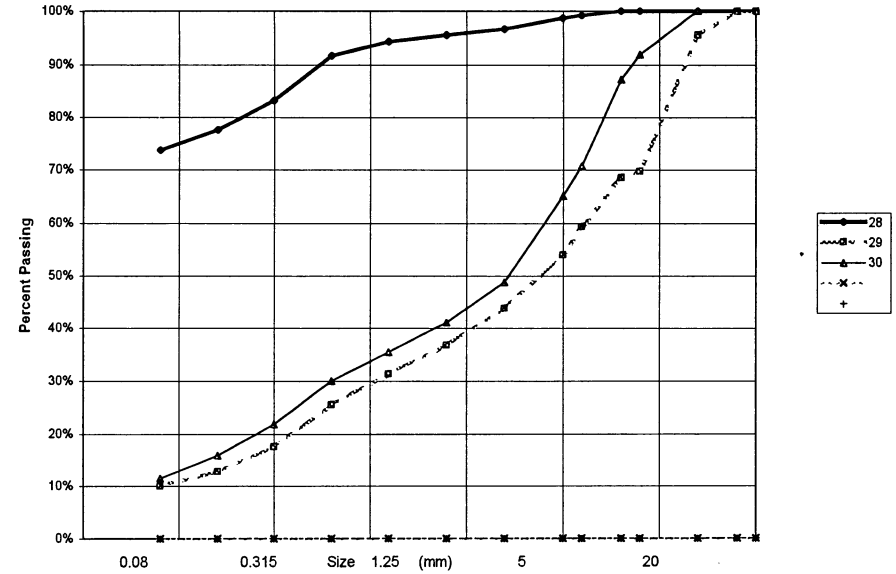
M.C.(%): 0%	M.C.(%): 4%	M.C.(%): 4%
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LIMITS		LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0	P.I.:	0.0

% GRAVEL: 3	% GRAVEL: 56	% GRAVEL: 51
% SAND: 23	% SAND: 34	% SAND: 37
% FINES: 74	% FINES: 10	% FINES: 12

CLASSIFICATION: SILT WITH SAND (ML)	CLASSIFICATION: POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	CLASSIFICATION: POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)
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YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 499-252
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 12B
 PROJECT LOCATION: KM 1761-1791 ALASKA HWY
 DRILL UNIT: NODWELL B40L
 HOLE LOCATION: 1797+455 9M LT
 LOGGED BY: W.E. DATE COMP 98-11-10

FIELD NO: 31	FIELD No. 32	FIELD No: 33
LAB NO: 1241	LAB No. 1242	LAB No: 1243
DEPTH: 1.0-1.2	DEPTH 2.9-3.1	DEPTH: 4.4-4.6
TYPE: AUGER	TYPE AUGER	TYPE: AUGER

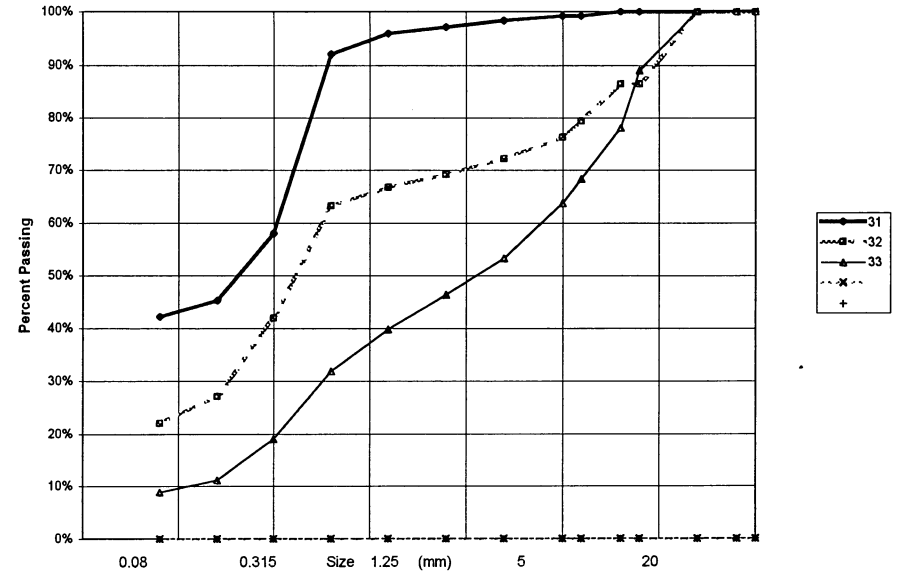
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%	100.0	100%
80.0	100%	80.0	100%	80.0	100%
50.0	100%	50.0	100%	50.0	100%
25.0	100%	25.0	86%	25.0	89%
20.0	100%	20.0	86%	20.0	78%
12.5	99%	12.5	79%	12.5	68%
10.0	99%	10.0	76%	10.0	64%
5.0	98%	5.0	72%	5.0	53%
2.5	97%	2.5	69%	2.5	46%
1.25	96%	1.25	67%	1.25	40%
0.630	92%	0.630	63%	0.630	32%
0.315	58%	0.315	42%	0.315	19%
0.160	45%	0.160	27%	0.160	11%
0.080	42%	0.080	22%	0.080	9%

M.C.(%): 11%	M.C.(%): 6%	M.C.(%): 4%
LIMITS	LIMITS	LIMITS
LIQUID: 0.0	LIQUID: 0.0	LIQUID: 0.0
PLASTIC: 0.0	PLASTIC: 0.0	PLASTIC: 0.0
P.I.: 0.0	P.I.: 0.0	P.I.: 0.0

% GRAVEL: 2	% GRAVEL: 28	% GRAVEL: 47
% SAND: 56	% SAND: 50	% SAND: 44
% FINES: 42	% FINES: 22	% FINES: 9

CLASSIFICATION: SILTY SAND (SM)	CLASSIFICATION: SILTY SAND WITH GRAVEL (SM)	CLASSIFICATION: POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)
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YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-253
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+548 CENTRELINE
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 1	FIELD No. 2
LAB NO: 1244	LAB No. 1245
DEPTH: 1.0-1.5	DEPTH 2.5-3.0
TYPE: AUGER	TYPE AUGER

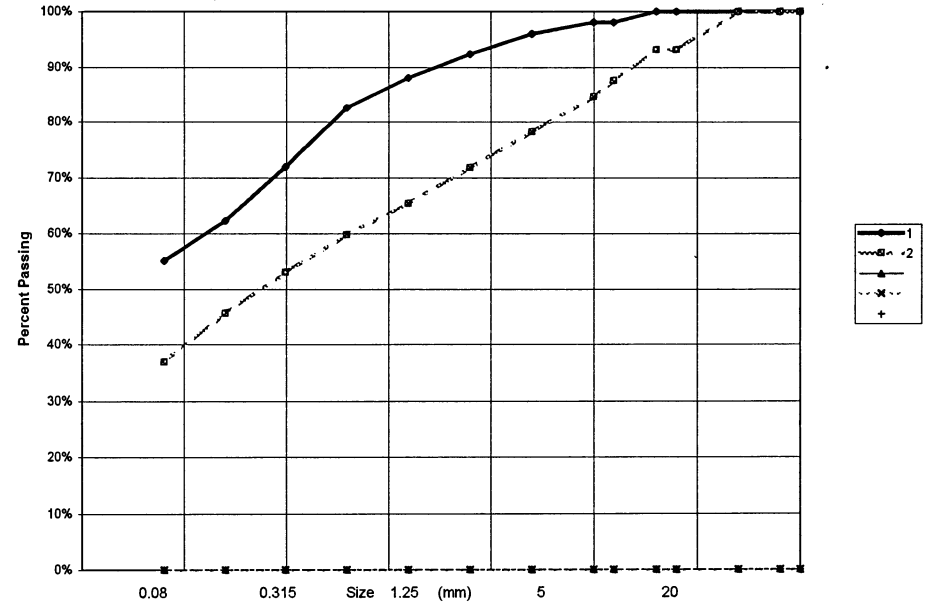
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%
80.0	100%	80.0	100%
50.0	100%	50.0	100%
25.0	100%	25.0	93%
20.0	100%	20.0	93%
12.5	98%	12.5	88%
10.0	98%	10.0	85%
5.0	96%	5.0	78%
2.5	92%	2.5	72%
1.25	88%	1.25	65%
0.630	83%	0.630	60%
0.315	72%	0.315	53%
0.160	62%	0.160	46%
0.080	55%	0.080	37%

M.C.(%): 73%	M.C.(%): 16%
LIMITS	LIMITS
LIQUID: 0.0	LIQUID: 0.0
PLASTIC: 0.0	PLASTIC: 0.0
P.I.: 0.0	P.I.: 0.0

% GRAVEL: 4	% GRAVEL: 22
% SAND: 41	% SAND: 41
% FINES: 55	% FINES: 37

CLASSIFICATION: SANDY SILT (ML)	CLASSIFICATION: SILTY SAND WITH GRAVEL (SM)
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YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-254
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+449 CENTRELINE
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 3
 LAB NO: 1246
 DEPTH: 1.2-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	85%
20.0	75%
12.5	60%
10.0	55%
5.0	47%
2.5	44%
1.25	42%
0.630	39%
0.315	35%
0.160	30%
0.080	25%

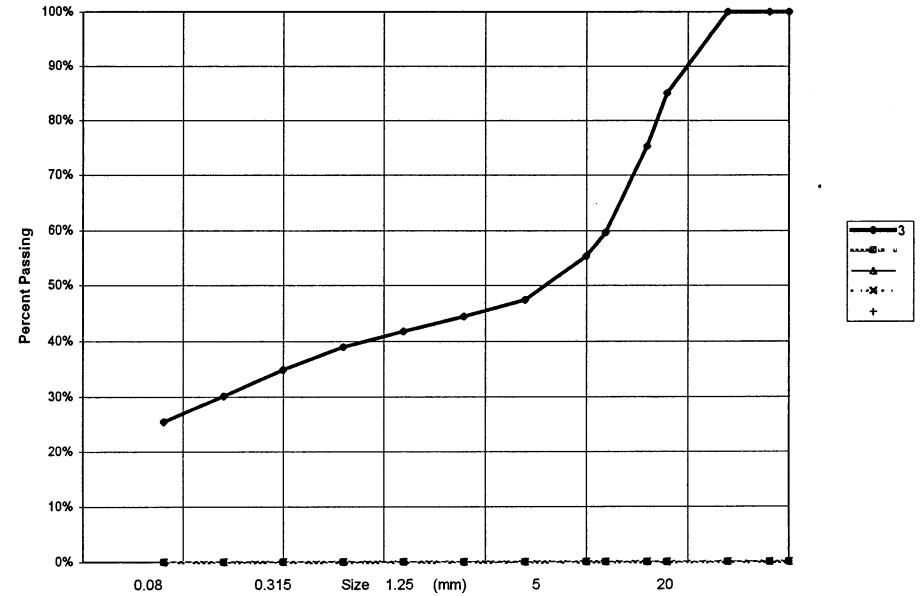
M.C.(%): 17%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 53
 % SAND: 22
 % FINES: 25

CLASSIFICATION:
 SILTY GRAVEL WITH SAND (GM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-255
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+399 CENTRELINE
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 4
 LAB NO: 1247
 DEPTH: 1.0-1.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	95%
20.0	93%
12.5	86%
10.0	83%
5.0	73%
2.5	67%
1.25	63%
0.630	58%
0.315	52%
0.160	45%
0.080	39%

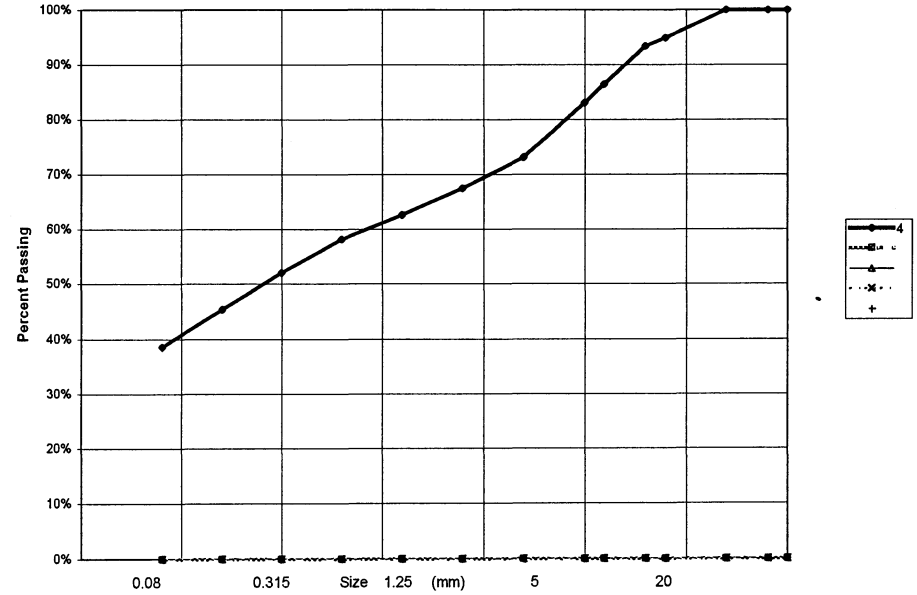
M.C.(%): 10%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 27
 % SAND: 35
 % FINES: 39

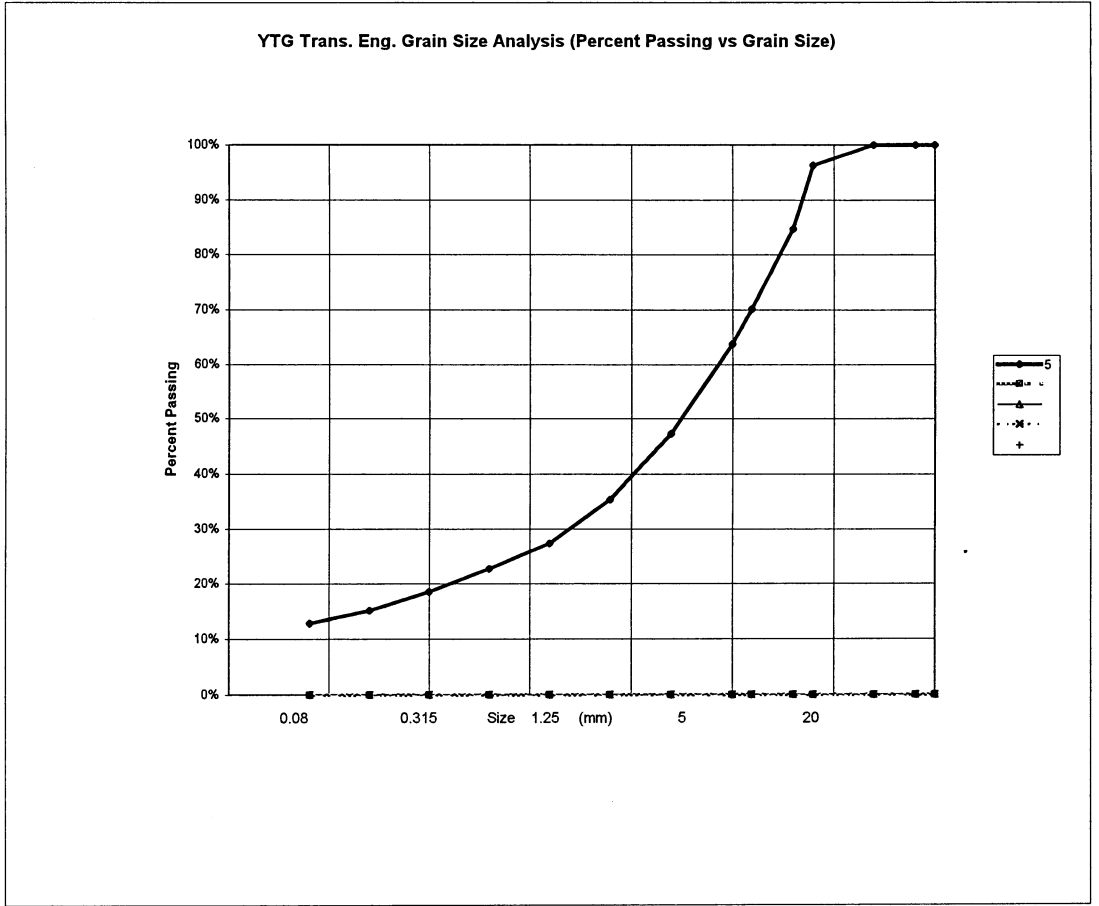
CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-256
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+299 CENTRELINE
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 5			
LAB NO: 1248			
DEPTH: 1.5-2.0			
TYPE: AUGER			
SIEVE SIZE	PERCENT PASSING		
100.0	100%		
80.0	100%		
50.0	100%		
25.0	96%		
20.0	85%		
12.5	70%		
10.0	64%		
5.0	47%		
2.5	35%		
1.25	27%		
0.630	23%		
0.315	18%		
0.160	15%		
0.080	13%		
M.C.(%): 5%			
LIMITS			
LIQUID: 0.0			
PLASTIC: 0.0			
P.I.: 0.0			
% GRAVEL: 53			
% SAND: 34			
% FINES: 13			
CLASSIFICATION:			
SILTY GRAVEL WITH SAND (GM)			



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-257
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+199 CENTRELINE
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 6
 LAB NO: 1249
 DEPTH: 1.0-1.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	100%
12.5	100%
10.0	100%
5.0	100%
2.5	95%
1.25	89%
0.630	84%
0.315	73%
0.160	57%
0.080	50%

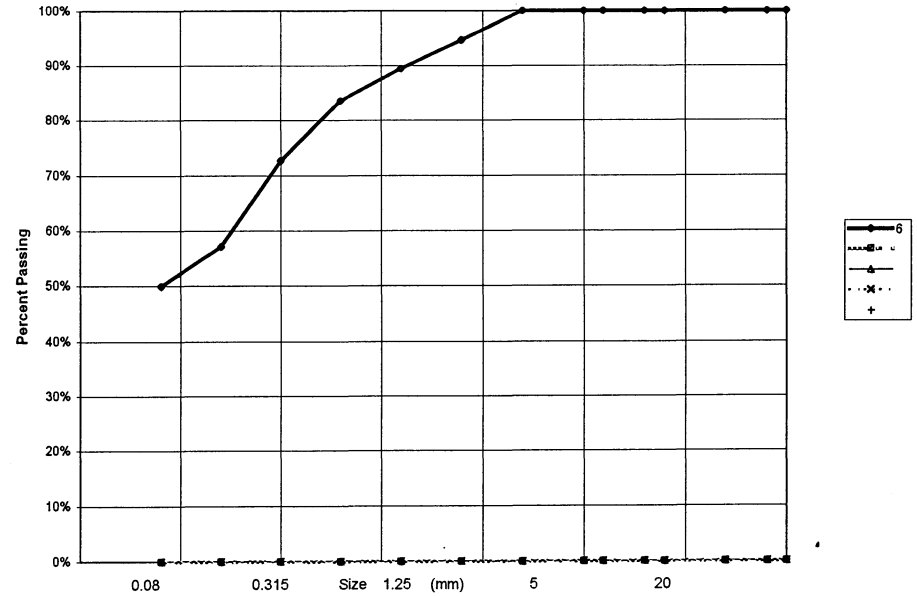
M.C.(%): 12%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

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

CLASSIFICATION:
 SILTY SAND (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-258
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+149 CENTRELINE
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 7
 LAB NO: 1250
 DEPTH: 1.2-1.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	100%
12.5	99%
10.0	96%
5.0	89%
2.5	82%
1.25	76%
0.630	70%
0.315	62%
0.160	53%
0.080	44%

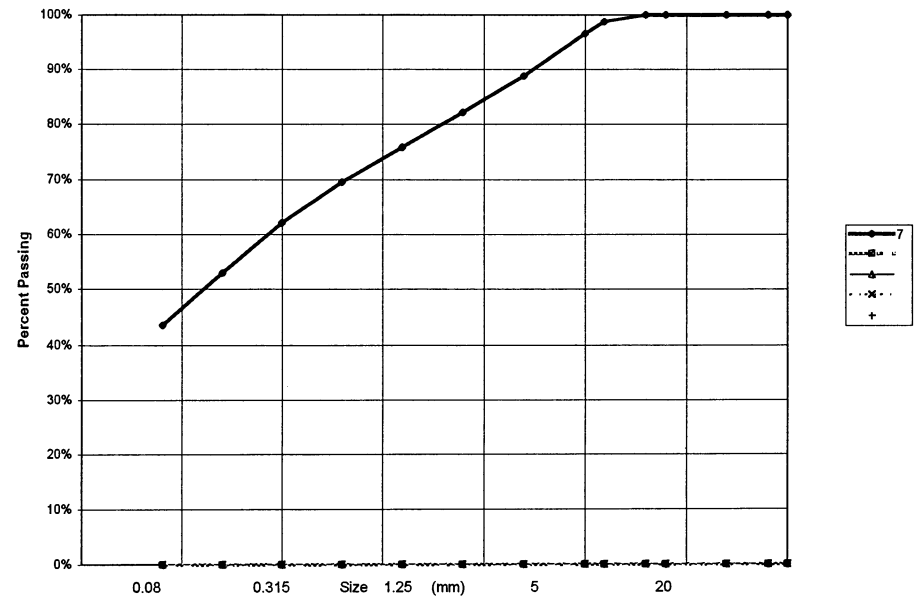
M.C.(%): 18%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 11
 % SAND: 45
 % FINES: 44

CLASSIFICATION:
 SILTY SAND (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-259
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+150 20M RT
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 8
 LAB NO: 1251
 DEPTH: 1.2-1.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	95%
20.0	95%
12.5	89%
10.0	84%
5.0	72%
2.5	64%
1.25	58%
0.630	52%
0.315	46%
0.160	39%
0.080	32%

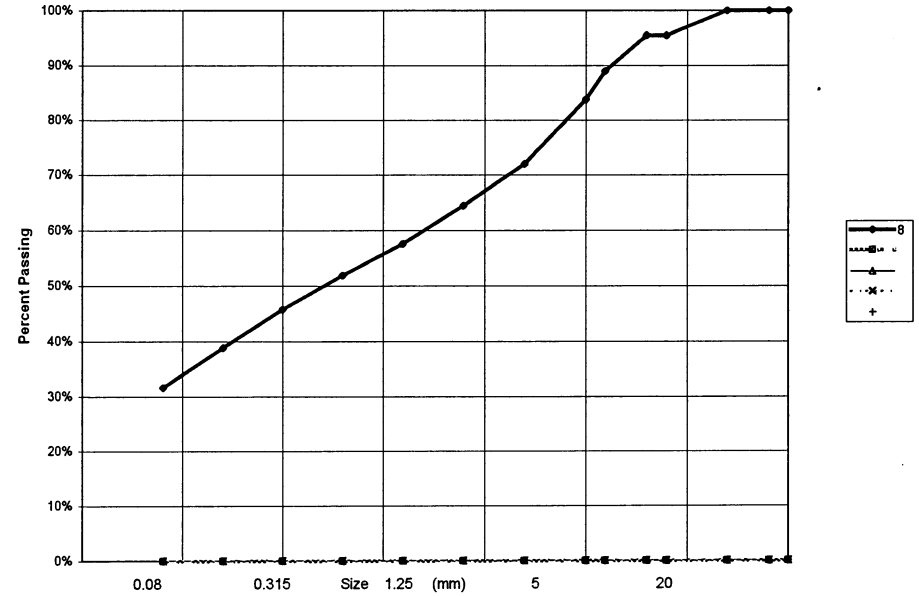
M.C.(%): 13%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 28
 % SAND: 40
 % FINES: 32

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-260
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1781-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+200 20M RT
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 9
 LAB NO: 1252
 DEPTH: 1.2-1.6
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	92%
20.0	86%
12.5	86%
10.0	84%
5.0	78%
2.5	72%
1.25	66%
0.630	60%
0.315	54%
0.160	47%
0.080	40%

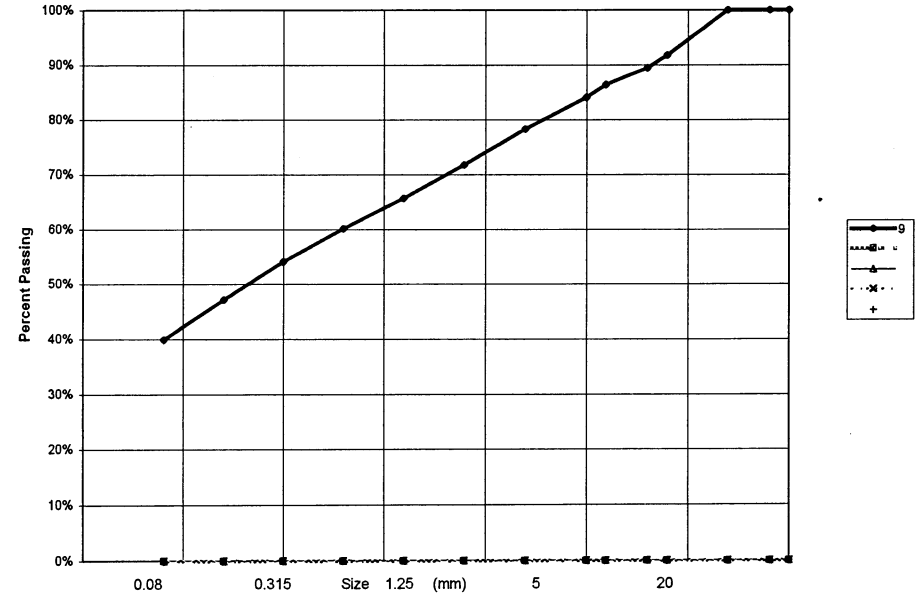
M.C.(%): 12%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 22
 % SAND: 38
 % FINES: 40

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-261
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+250 20M RT
 LOGGED BY: G.C. DATE COMP 98-11-26

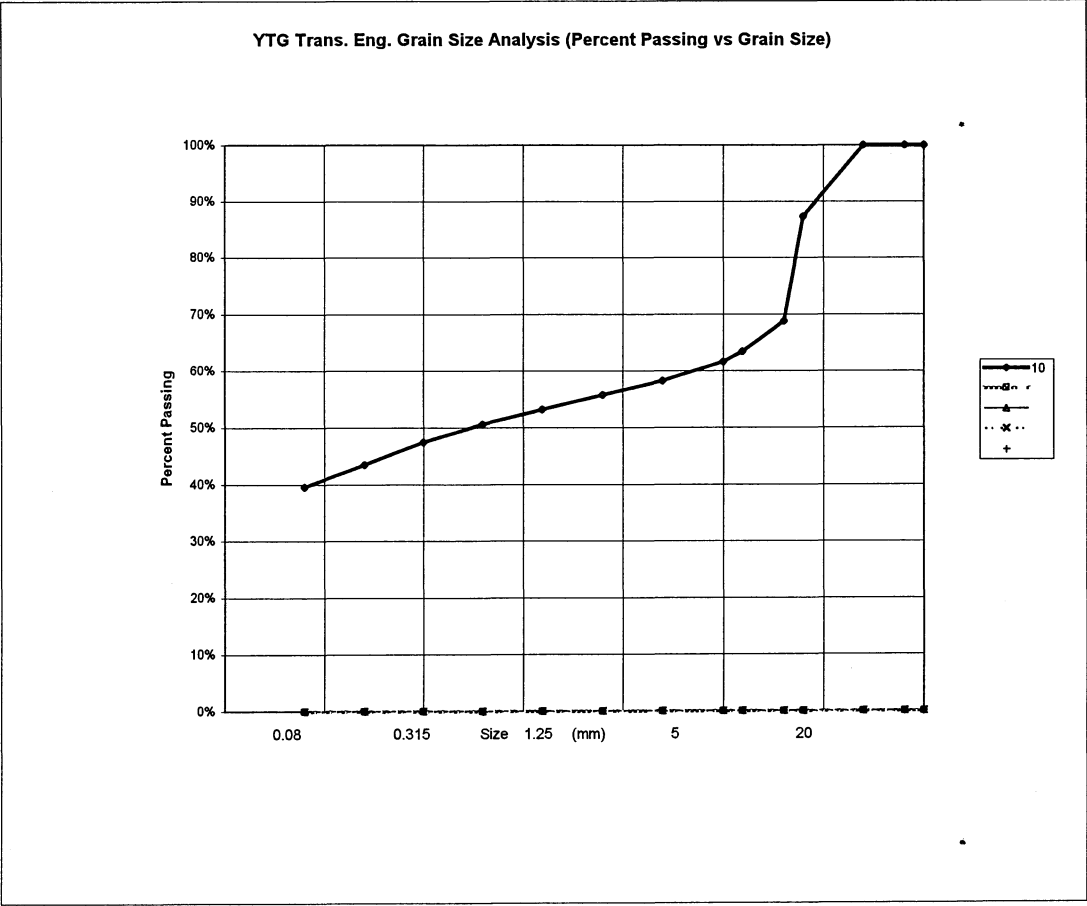
SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	87%
20.0	69%
12.5	63%
10.0	62%
5.0	58%
2.5	56%
1.25	53%
0.630	51%
0.315	47%
0.160	43%
0.080	39%

M.C.(%)	8%
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LIMITS	
LIQUID:	0.0
PLASTIC:	0.0
P.I.:	0.0

% GRAVEL:	42
% SAND:	19
% FINES:	39

CLASSIFICATION:	
SILTY GRAVEL WITH SAND (GM)	



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-262
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+300 20M RT
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 11
 LAB NO: 1254
 DEPTH: 2.0-2.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	98%
12.5	92%
10.0	90%
5.0	82%
2.5	75%
1.25	69%
0.630	63%
0.315	56%
0.160	50%
0.080	43%

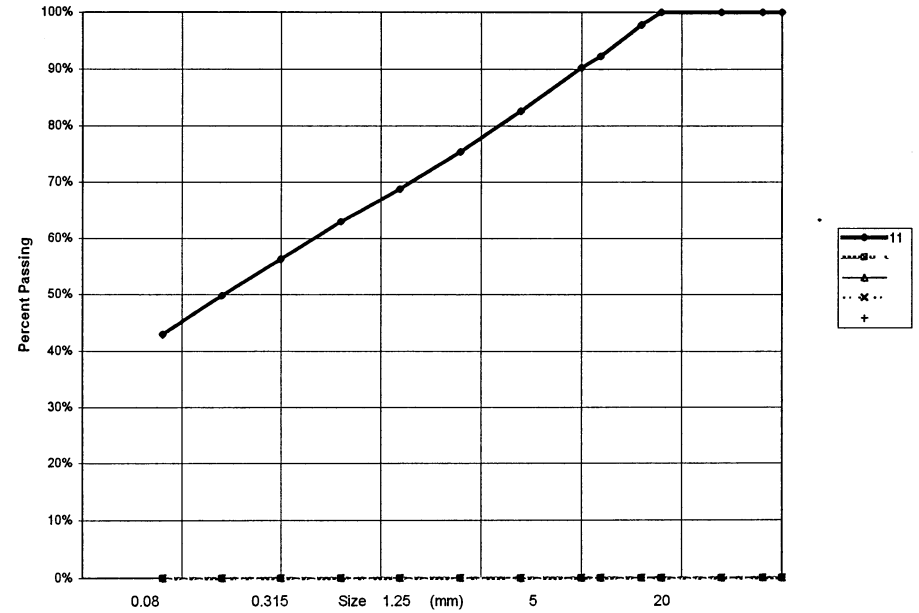
M.C.(%): 30%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 18
 % SAND: 40
 % FINES: 43

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-263
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+350 20M RT
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 12
 LAB NO: 1255
 DEPTH: 2.0-2.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	98%
12.5	96%
10.0	94%
5.0	88%
2.5	81%
1.25	74%
0.630	67%
0.315	60%
0.160	50%
0.080	39%

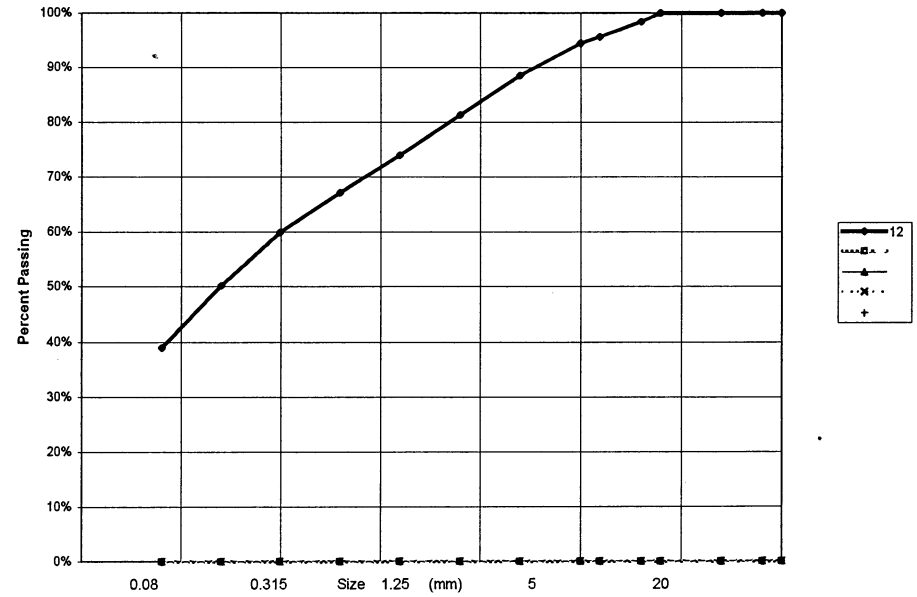
M.C.(%): 12%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

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

CLASSIFICATION:
 SILTY SAND (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-264
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+400 20M RT
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 13
 LAB NO: 1256
 DEPTH: 1.2-1.7
 TYPE: AUGER

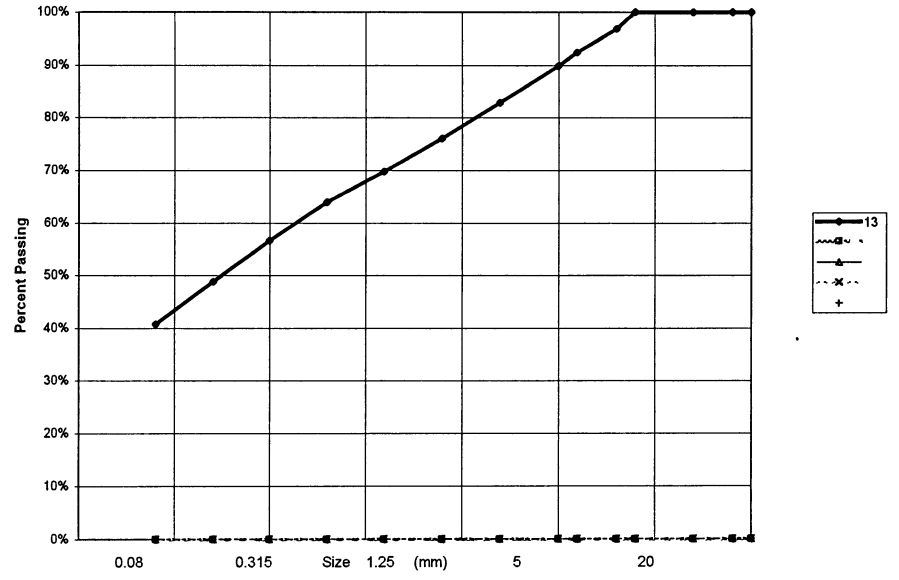
SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	97%
12.5	92%
10.0	90%
5.0	83%
2.5	76%
1.25	70%
0.630	64%
0.315	57%
0.160	49%
0.080	41%

M.C.(%): 13%
 LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 17
 % SAND: 42
 % FINES: 41

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 500-265
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1781-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+450 20M RT
 LOGGED BY: G.C. DATE COMP 98-11-26

FIELD NO: 14
 LAB NO: 1257
 DEPTH: 2.0-2.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	100%
12.5	100%
10.0	98%
5.0	95%
2.5	85%
1.25	69%
0.630	57%
0.315	41%
0.160	31%
0.080	23%

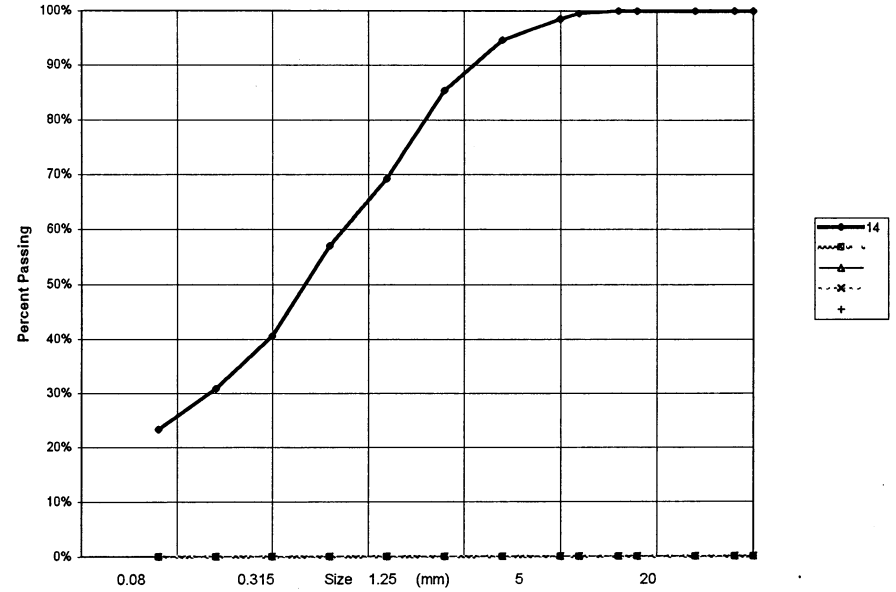
M.C.(%): 9%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 5
 % SAND: 71
 % FINES: 23

CLASSIFICATION:
 SILTY SAND (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER:	092-202101-0328-1	HOLE No.:	500-266
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEGMENT 12 B		
PROJECT LOCATION:	KM 1761-1799 ALASKA HWY		
DRILL UNIT:	D-4 CAT B40-L		
HOLE LOCATION:	1795+500 20M RT		
LOGGED BY:	G.C.	DATE COMP	98-11-26

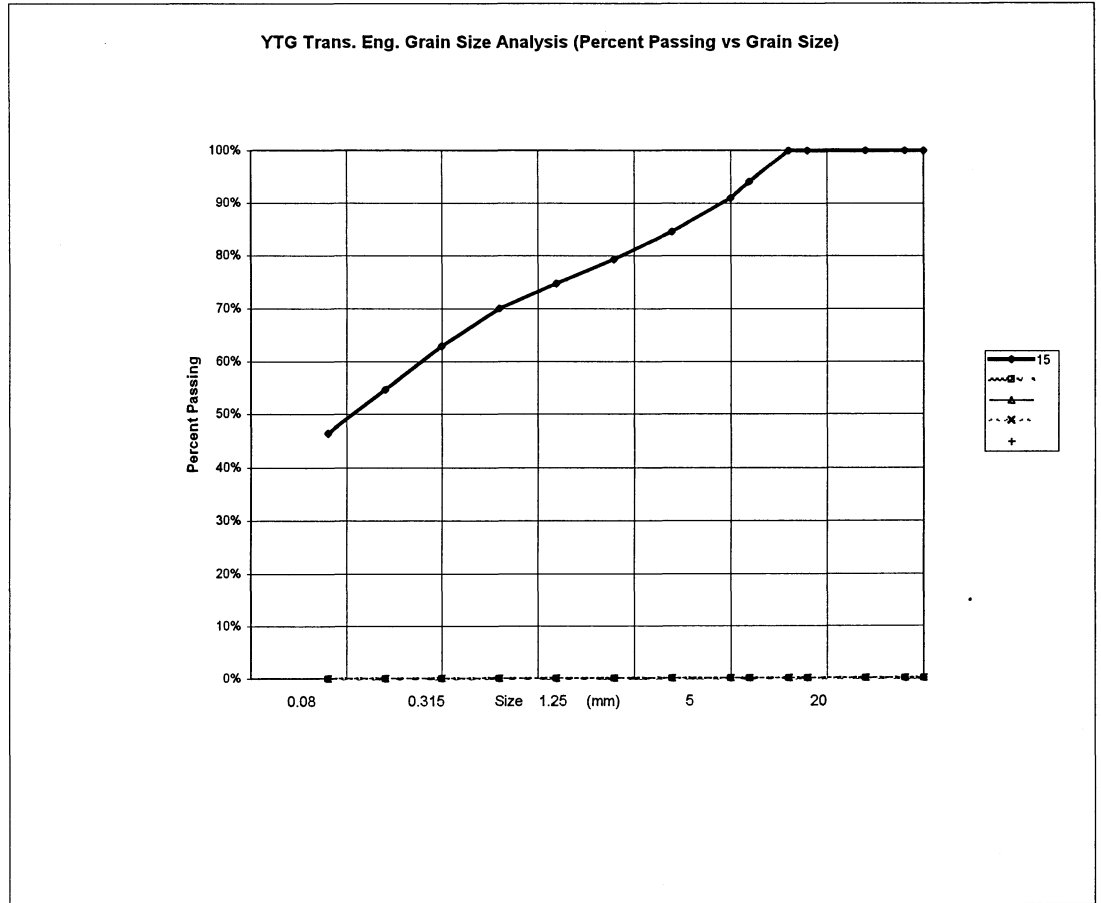
FIELD NO:	15		
LAB NO:	1258		
DEPTH:	1.2-1.5		
TYPE:	AUGER		

SIEVE SIZE	PERCENT PASSING		
100.0	100%		
80.0	100%		
50.0	100%		
25.0	100%		
20.0	100%		
12.5	94%		
10.0	91%		
5.0	85%		
2.5	79%		
1.25	75%		
0.630	70%		
0.315	63%		
0.160	55%		
0.080	46%		

M.C.(%):	59%		
LIMITS			
LIQUID:	0.0		
PLASTIC:	0.0		
P.I.:	0.0		

% GRAVEL:	15		
% SAND:	38		
% FINES:	46		

CLASSIFICATION:			
SILTY SAND WITH GRAVEL (SM)			



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 501-267
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+550 20M LT
 LOGGED BY: B.S. DATE COMP 98-11-27

FIELD NO: 17
 LAB NO: 1260
 DEPTH: 2.8-3.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	96%
12.5	87%
10.0	84%
5.0	74%
2.5	65%
1.25	58%
0.630	53%
0.315	46%
0.160	39%
0.080	32%

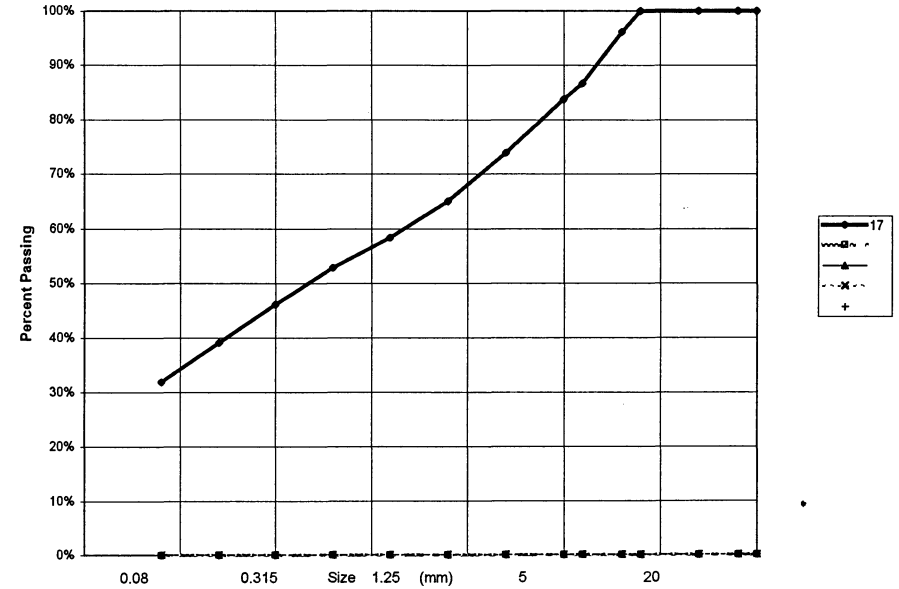
M.C.(%): 14%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 26
 % SAND: 42
 % FINES: 32

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 501-271
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+300 20M LT
 LOGGED BY: B.S. DATE COMP 98-11-27

FIELD NO: 21
 LAB NO: 1264
 DEPTH: 1.3-1.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	100%
12.5	97%
10.0	94%
5.0	84%
2.5	75%
1.25	68%
0.630	62%
0.315	55%
0.160	46%
0.080	38%

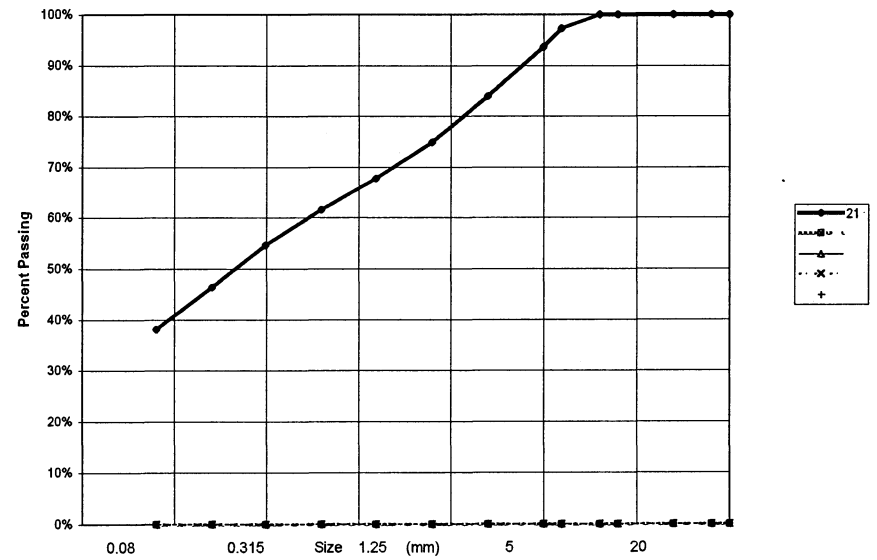
M.C.(%): 20%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 16
 % SAND: 46
 % FINES: 38

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 501-272
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1795+300 25M LT
 LOGGED BY: B.S. DATE COMP 98-11-27

FIELD NO: 22
 LAB NO: 1265
 DEPTH: 1.2-1.4
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	84%
25.0	68%
20.0	65%
12.5	57%
10.0	55%
5.0	49%
2.5	45%
1.25	41%
0.630	38%
0.315	33%
0.160	29%
0.080	24%

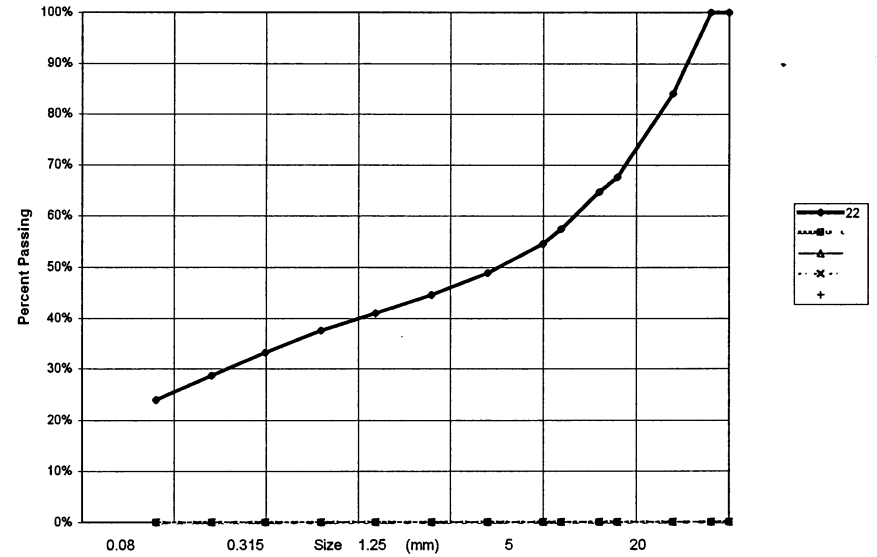
M.C.(%): 6%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 51
 % SAND: 25
 % FINES: 24

CLASSIFICATION:
 SILTY GRAVEL WITH SAND (GM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 501-274
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1794+700 CENTRELINE
 LOGGED BY: B.S. DATE COMP 98-11-27

FIELD NO: 24
 LAB NO: 1267
 DEPTH: 1.1-1.3
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	87%
20.0	87%
12.5	80%
10.0	77%
5.0	70%
2.5	65%
1.25	59%
0.630	54%
0.315	49%
0.160	42%
0.080	35%

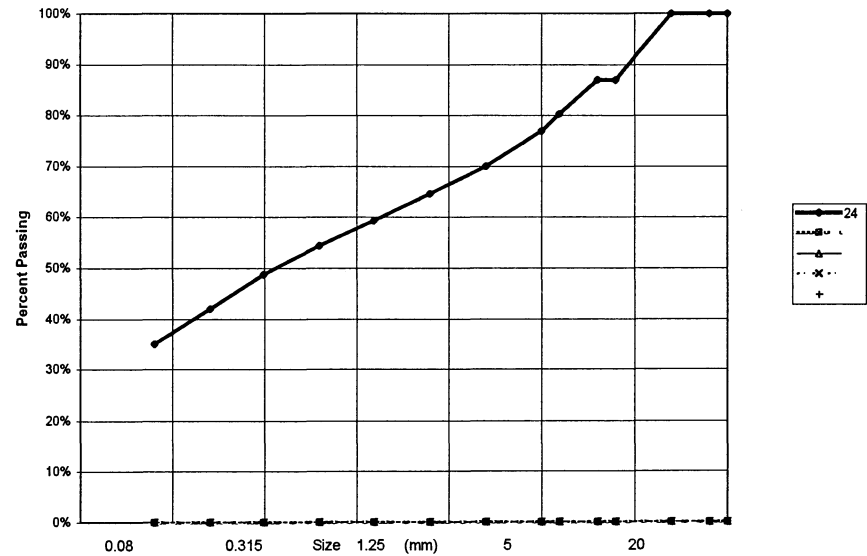
M.C.(%): 6%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 30
 % SAND: 35
 % FINES: 35

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 501-275
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1794+650 20M RT
 LOGGED BY: B.S. DATE COMP 98-11-27

FIELD NO: 26	FIELD No. 27
LAB NO: 1269	LAB No. 1270
DEPTH: 1.0-1.2	DEPTH 2.4-2.6
TYPE: AUGER	TYPE AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%
80.0	100%	80.0	100%
50.0	100%	50.0	100%
25.0	95%	25.0	71%
20.0	92%	20.0	65%
12.5	82%	12.5	54%
10.0	79%	10.0	51%
5.0	69%	5.0	45%
2.5	63%	2.5	40%
1.25	58%	1.25	36%
0.630	53%	0.630	32%
0.315	46%	0.315	27%
0.160	39%	0.160	22%
0.080	32%	0.080	18%

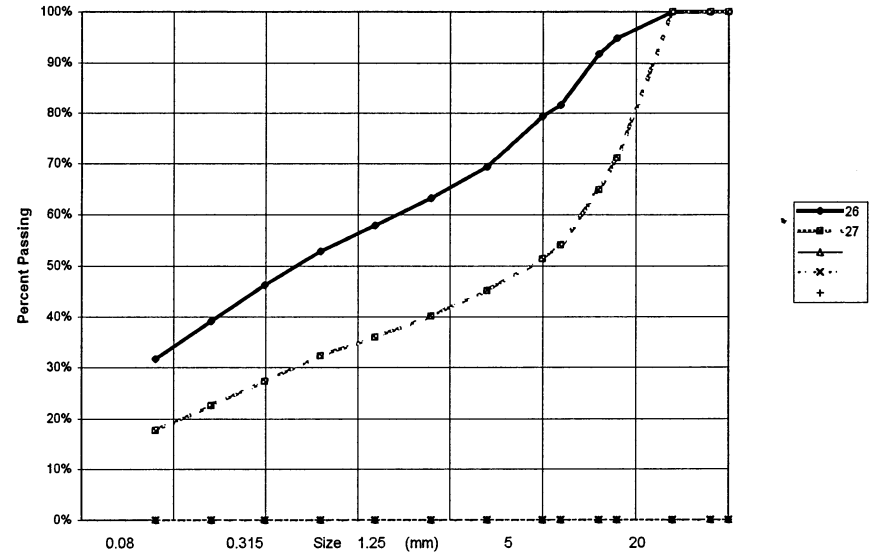
M.C.(%): 4% M.C.(%): 3%

LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0

% GRAVEL:	31	% GRAVEL:	55
% SAND:	38	% SAND:	27
% FINES:	32	% FINES:	18

CLASSIFICATION: SILTY SAND WITH GRAVEL (SM) CLASSIFICATION: SILTY GRAVEL WITH SAND (GM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 501-276
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1781-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1794+600 20M RT
 LOGGED BY: B.S. DATE COMP 98-11-27

FIELD NO: 28
 LAB NO: 1272
 DEPTH: 1.0-1.2
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	92%
20.0	76%
12.5	69%
10.0	66%
5.0	59%
2.5	54%
1.25	49%
0.630	45%
0.315	40%
0.160	34%
0.080	28%

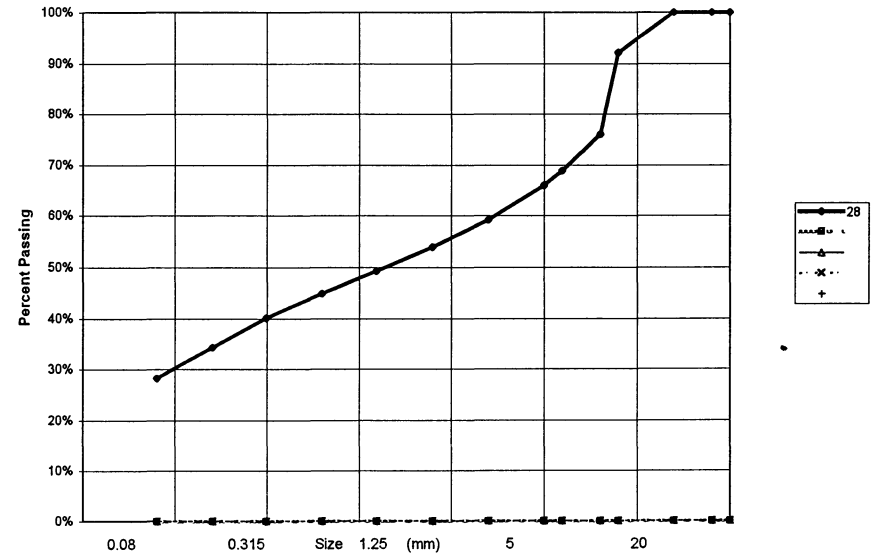
M.C.(%): 4%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 41
 % SAND: 31
 % FINES: 28

CLASSIFICATION:
 SILTY GRAVEL WITH SAND (GM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 501-277
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1794+150 CENTRELINE
 LOGGED BY: B.S. DATE COMP 98-11-27

FIELD NO:	30	FIELD No.	31
LAB NO:	1274	LAB No.	1275
DEPTH:	1.1-1.3	DEPTH	2.6-2.8
TYPE:	AUGER	TYPE	AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%
80.0	100%	80.0	100%
50.0	100%	50.0	100%
25.0	100%	25.0	74%
20.0	98%	20.0	62%
12.5	91%	12.5	56%
10.0	84%	10.0	52%
5.0	72%	5.0	47%
2.5	64%	2.5	42%
1.25	58%	1.25	39%
0.630	53%	0.630	35%
0.315	47%	0.315	31%
0.160	41%	0.160	27%
0.080	34%	0.080	23%

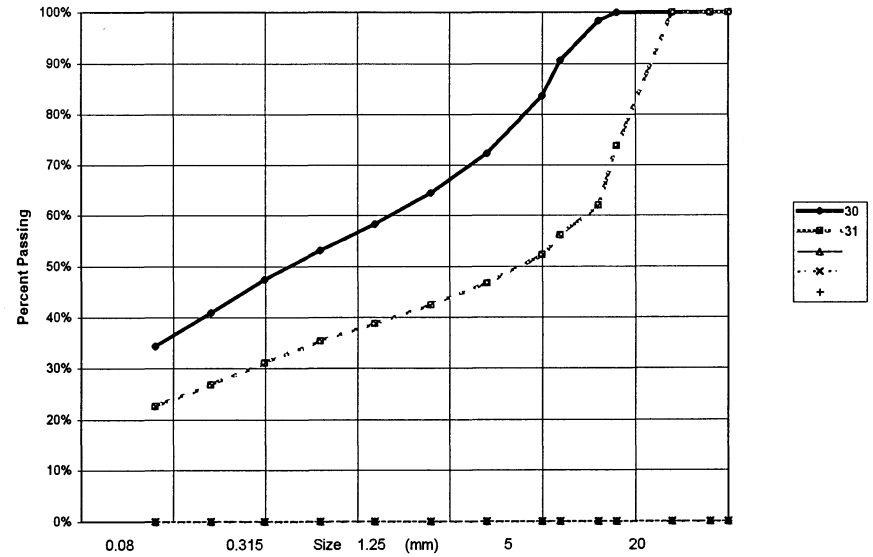
M.C.(%): 12% M.C.(%): 6%

LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0

% GRAVEL:	28	% GRAVEL:	53
% SAND:	38	% SAND:	24
% FINES:	34	% FINES:	23

CLASSIFICATION: SILTY SAND WITH GRAVEL (SM) CLASSIFICATION: SILTY GRAVEL WITH SAND (GM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 502-297
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1793+300 20M RT
 LOGGED BY: B.S. DATE COMP 98-11-29

FIELD NO: 45 FIELD No. 46
 LAB NO: 1289 LAB No. 1290
 DEPTH: 1.0-1.2 DEPTH 3.2-3.6
 TYPE: AUGER TYPE AUGER

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%
80.0	100%	80.0	100%
50.0	100%	50.0	100%
25.0	94%	25.0	100%
20.0	92%	20.0	100%
12.5	77%	12.5	82%
10.0	69%	10.0	70%
5.0	52%	5.0	45%
2.5	42%	2.5	31%
1.25	36%	1.25	24%
0.630	32%	0.630	18%
0.315	28%	0.315	13%
0.160	25%	0.160	10%
0.080	21%	0.080	8%

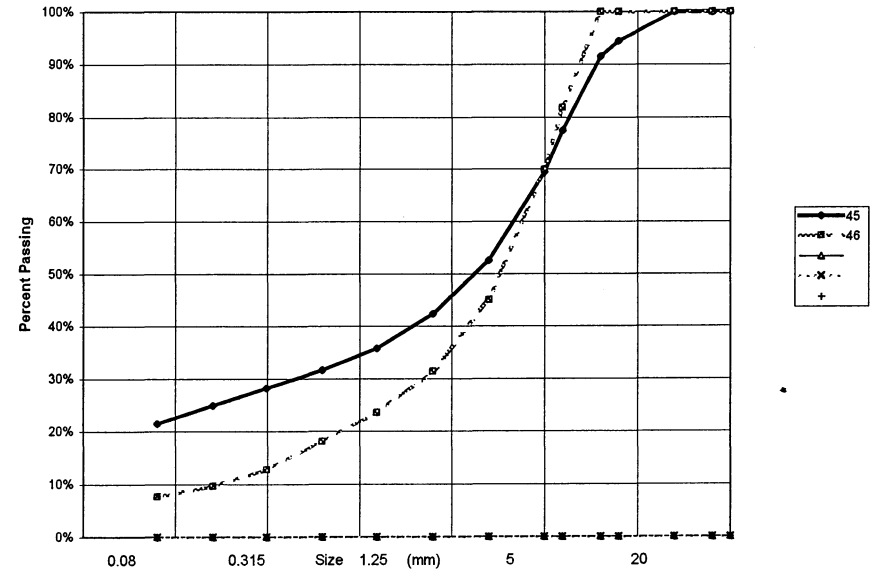
M.C.(%): 43% M.C.(%): 6%

LIMITS
 LIQUID: 0.0 LIQUID: 0.0
 PLASTIC: 0.0 PLASTIC: 0.0
 P.I.: 0.0 P.I.: 0.0

% GRAVEL: 48 % GRAVEL: 55
 % SAND: 31 % SAND: 37
 % FINES: 21 % FINES: 8

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

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 502-298
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1793+300 25M LT
 LOGGED BY: B.S. DATE COMP 98-11-29

FIELD NO: 49
 LAB NO: 1293
 DEPTH: 3.7-4.0
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	96%
12.5	93%
10.0	88%
5.0	75%
2.5	61%
1.25	49%
0.630	40%
0.315	32%
0.160	24%
0.080	19%

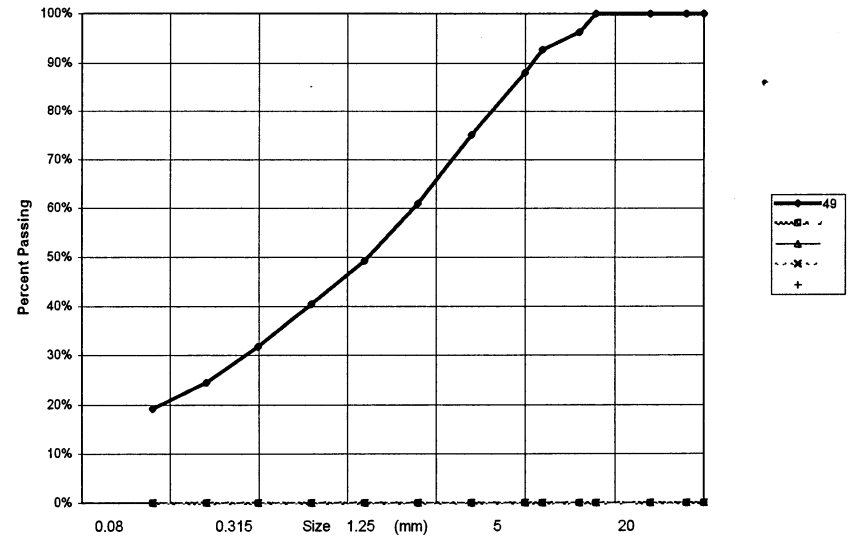
M.C.(%): 10%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 25
 % SAND: 56
 % FINES: 19

CLASSIFICATION:
 SILTY SAND WITH GRAVEL (SM)

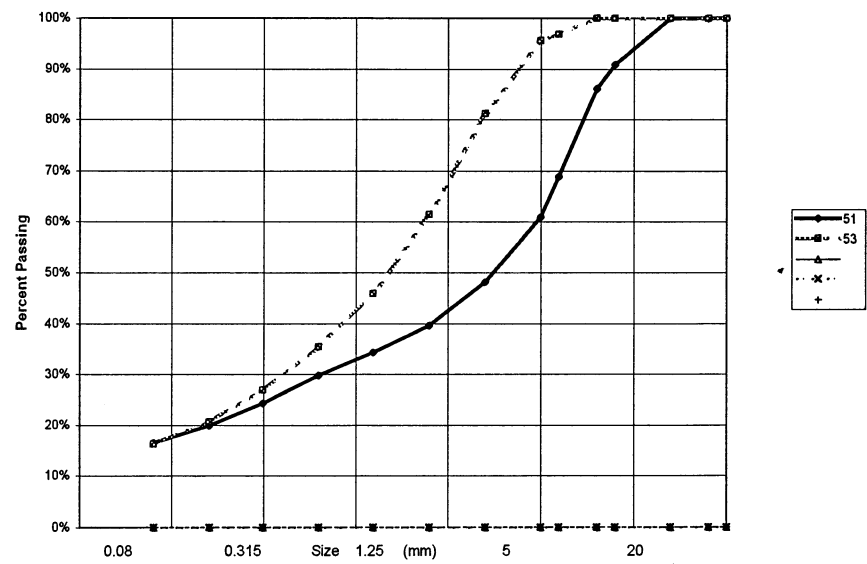
YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER:	092-202101-0328-1	HOLE No.:	502-299
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEGMENT 12 B		
PROJECT LOCATION:	KM 1761-1799 ALASKA HWY		
DRILL UNIT:	D-4 CAT B40-L		
HOLE LOCATION:	1793+125 25M LT		
LOGGED BY:	B.S.	DATE COMP	98-11-29

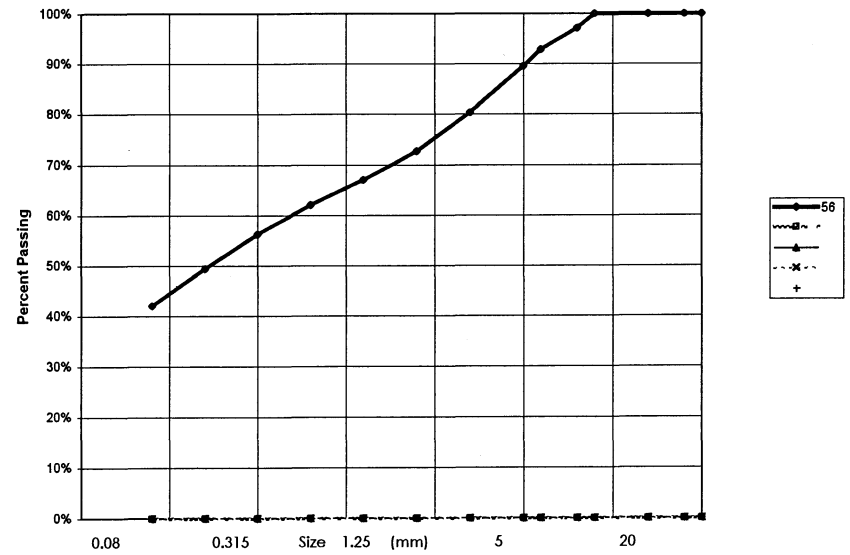
=====		=====	
FIELD NO:	51	FIELD No.	53
LAB NO:	1295	LAB No.	1297
DEPTH:	1.8-2.0	DEPTH	5.4-6.0
TYPE:	AUGER	TYPE	AUGER
-----		-----	
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
100.0	100%	100.0	100%
80.0	100%	80.0	100%
50.0	100%	50.0	100%
25.0	91%	25.0	100%
20.0	86%	20.0	100%
12.5	69%	12.5	97%
10.0	61%	10.0	96%
5.0	48%	5.0	81%
2.5	40%	2.5	61%
1.25	34%	1.25	46%
0.630	30%	0.630	35%
0.315	24%	0.315	27%
0.160	20%	0.160	21%
0.080	16%	0.080	16%
-----		-----	
M.C.(%):	11%	M.C.(%):	7%
LIMITS		LIMITS	
LIQUID:	0.0	LIQUID:	0.0
PLASTIC:	0.0	PLASTIC:	0.0
P.I.:	0.0	P.I.:	0.0
-----		-----	
% GRAVEL:	52	% GRAVEL:	19
% SAND:	32	% SAND:	65
% FINES:	16	% FINES:	16
-----		-----	
CLASSIFICATION:	SILTY GRAVEL WITH SAND (GM)	CLASSIFICATION:	SILTY SAND WITH GRAVEL (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER:	092-202101-0328-1	HOLE No.:	503-300
CLIENT:	ENGINEERING CAPITAL		
PROJECT NAME:	SHAKWAK SEGMENT 12 B		
PROJECT LOCATION:	KM 1761-1799 ALASKA HWY		
DRILL UNIT:	D-4 CAT B40-L		
HOLE LOCATION:	1790+425 26M LT	DATE COM	98/12/03
LOGGED BY:	B.S.		
=====			
FIELD NO:	56		
LAB NO:	1300		
DEPTH:	3.6-3.9		
TYPE:	AUGER		
SIEVE SIZE	PERCENT PASSING		
100.0	100%		
80.0	100%		
50.0	100%		
25.0	100%		
20.0	97%		
12.5	93%		
10.0	90%		
5.0	80%		
2.5	73%		
1.25	67%		
0.630	62%		
0.315	56%		
0.160	49%		
0.080	42%		
M.C.(%):	17%		
LIMITS			
LIQUID:	0.0		
PLASTIC:	0.0		
P.I.:	0.0		
% GRAVEL:	20		
% SAND:	38		
% FINES:	42		
CLASSIFICATION:			
SILTY SAND WITH GRAVEL (SM)			

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 503-303
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1788+825 19M LT
 LOGGED BY: B.S. DATE COMP 98-12-04

FIELD NO: 64
 LAB NO: 1308
 DEPTH: 3.6-4.1
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	100%
20.0	100%
12.5	97%
10.0	95%
5.0	88%
2.5	80%
1.25	73%
0.630	67%
0.315	59%
0.160	51%
0.080	43%

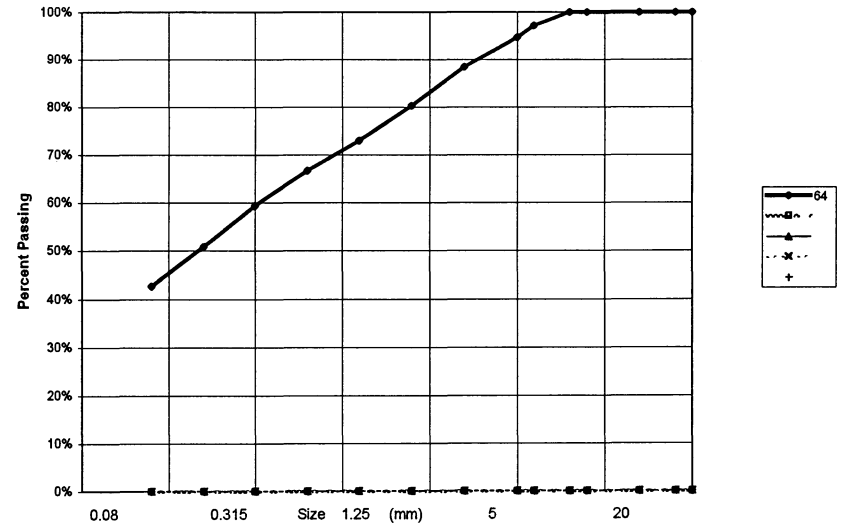
M.C.(%): 12%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 12
 % SAND: 46
 % FINES: 43

CLASSIFICATION:
 SILTY SAND (SM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



PROJECT NUMBER: 092-202101-0328-1 HOLE No.: 503-304
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEGMENT 12 B
 PROJECT LOCATION: KM 1761-1799 ALASKA HWY
 DRILL UNIT: D-4 CAT B40-L
 HOLE LOCATION: 1788+825 20M RT
 LOGGED BY: B.S. DATE COMP 98-12-04

FIELD NO: 67
 LAB NO: 1311
 DEPTH: 2.3-2.5
 TYPE: AUGER

SIEVE SIZE	PERCENT PASSING
100.0	100%
80.0	100%
50.0	100%
25.0	70%
20.0	67%
12.5	59%
10.0	53%
5.0	47%
2.5	43%
1.25	40%
0.630	37%
0.315	33%
0.160	27%
0.080	22%

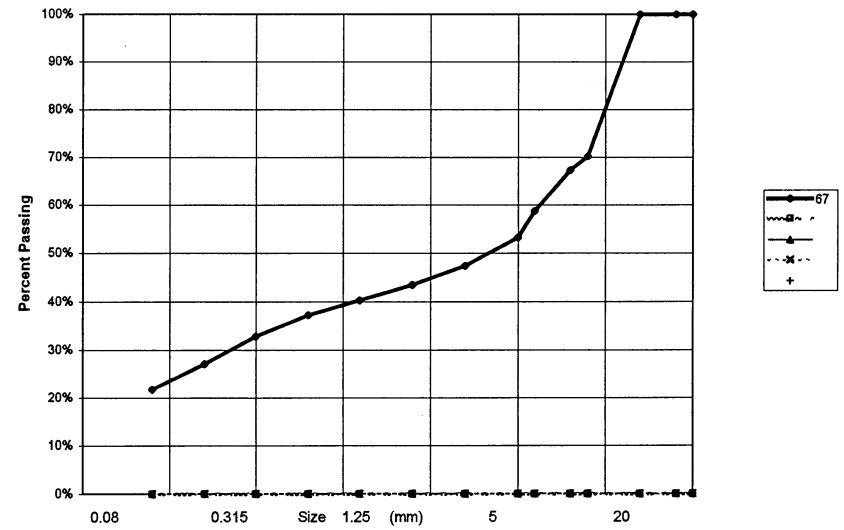
M.C.(%): 19%

LIMITS
 LIQUID: 0.0
 PLASTIC: 0.0
 P.I.: 0.0

% GRAVEL: 53
 % SAND: 26
 % FINES: 22

CLASSIFICATION:
 SILTY GRAVEL WITH SAND (GM)

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)



HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION
KM 1787.5 TO KM 1797.6
YUKON 1999-2000

ALASKA HIGHWAY #1

GRANULAR SOURCE TESTING
Km 1796 LHS
ALASKA HIGHWAY

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION
KM 1787.5 TO KM 1797.6
YUKON 1999-2000

ALASKA HIGHWAY #1

GRANULAR SOURCE TESTING
Km 1796 LHS
ALASKA HIGHWAY

HISTORY OF AGGREGATE PRODUCTION

Alaska Highway Km 1796 L.H.S.

115 G-01

Average Crusher Run Characteristics of Material Produced

File Number --- 2145-1 Contractor --- Nuway
Commenced 93-08-05 Completed 93-08-08 No. of tests - 12
Type of aggregate - B.S.T. Type II
Amount Produced --- 4,275 m³

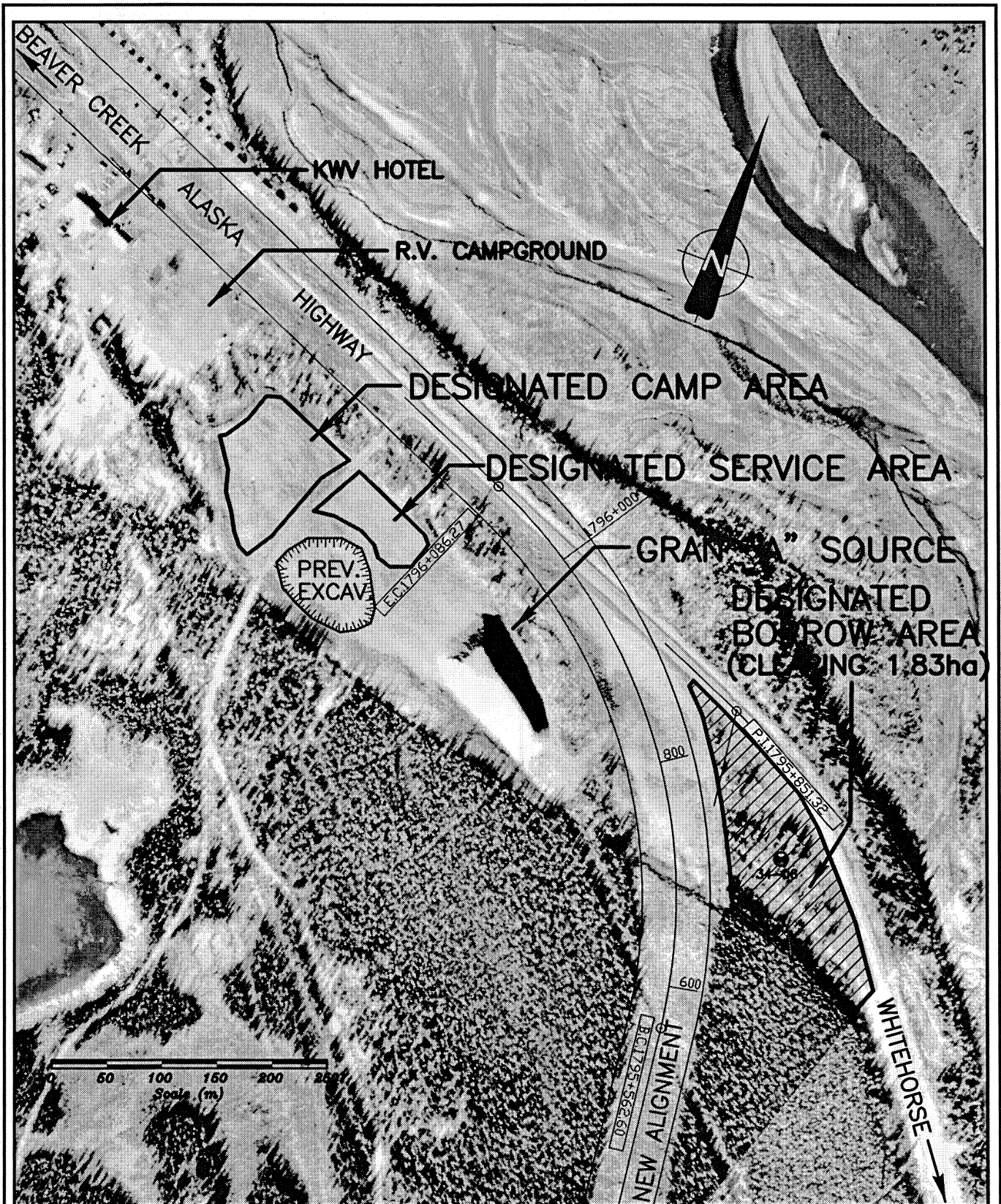
Sieve Size mm - 20.0 12.5 5.00 2.50 1.25 0.315 0.080
Percent Passing - 99.7 80.6 49.7 36.2 26.1 8.8 3.4
Moisture Content - 2.5% Standard Proctor
Fracture - 68.7% Kg/m³ @ % moisture
=====

File Number --- 2145-1 Contractor --- Nuway
Commenced 93-08-05 Completed 93-08-08 No. of tests - 21
Type of aggregate - Granular "A"
Amount Produced --- 6,460 m³

Sieve Size mm - 20.0 12.5 5.00 2.50 1.25 0.315 0.080
Percent Passing - 100.0 81.0 49.3 - 27.1 9.9 4.0
Moisture Content - 2.7% Standard Proctor
Fracture - 65.1% Kg/m³ @ % moisture
=====

File Number --- 2143-36 Contractor --- Nuway
Commenced 95-09-25 Completed 95-10-08 No. of tests - 93
Type of aggregate - Granular "A"
Amount Produced --- 53,118 m³

Sieve Size mm - 20.0 12.5 5.00 2.50 1.25 0.315 0.080
Percent Passing - 99.9 83.4 53.4 - 30.9 12.0 3.8
Moisture Content - 2.8% Standard Proctor
Fracture - 66.4% Kg/m³ @ % moisture
=====



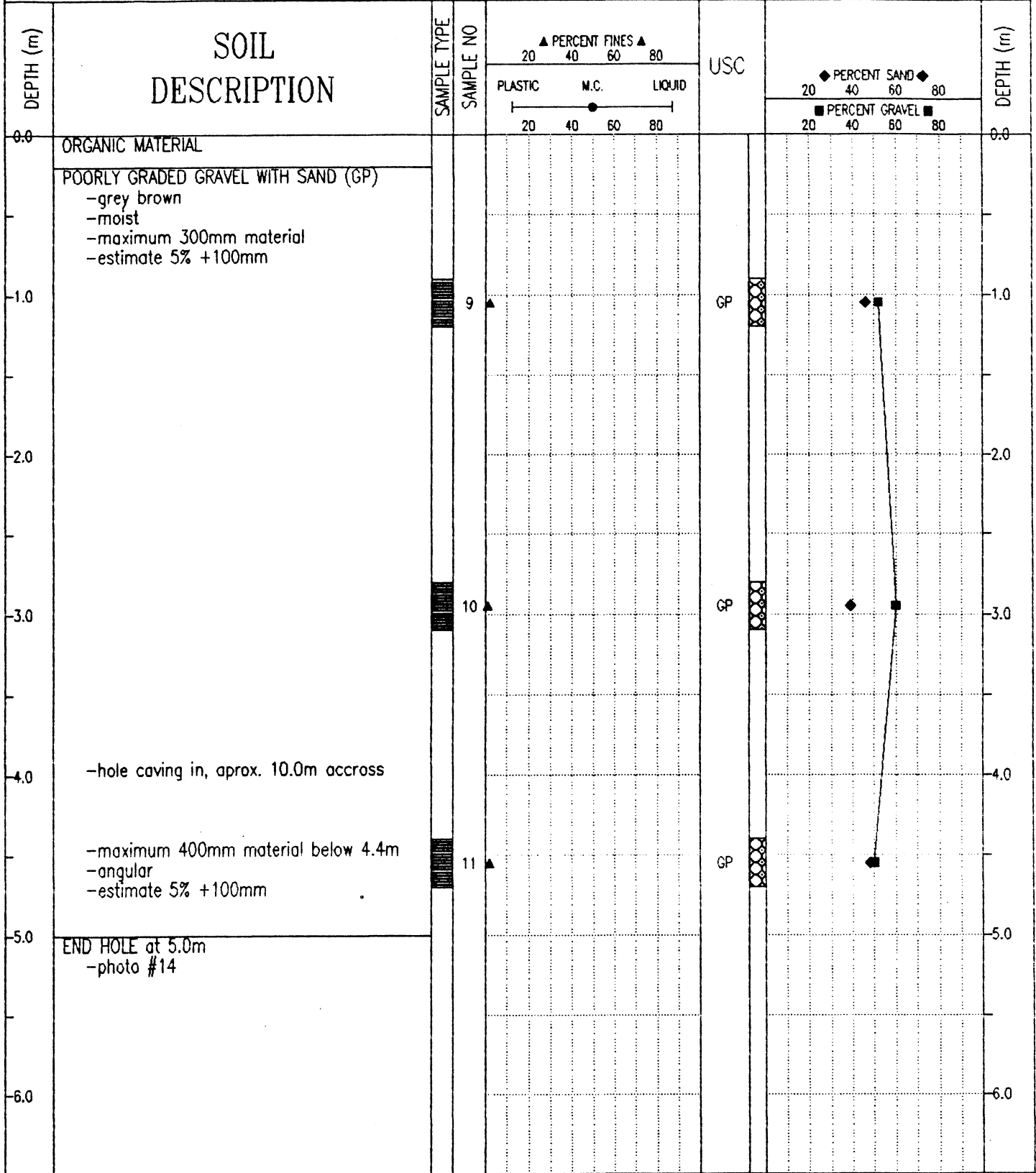
Yukon
Community and Transportation Services

Transportation Engineering Branch

SITE PLAN
GRAN "A" AND COMMON
BORROW SOURCES
km 1796
ALASKA HWY, YUKON

designed:	B. FULCHER
drawn:	WAE
pit file:	
date:	Jan.21/99
scale:	1: 5,000
drwg:	01-1796-SP

SUBSURFACE EXPLORATION AND TEST REPORT	ALASKA HIGHWAY PRE-ENGINEERING	BOREHOLE No. 034-06
PWC - CAPITAL Y.T.	A/H KM 1797 LHS	Project No: 115-G-01
BACKHOE: CAT 225	LOCATION: See Plan	ELEVATION 0.000 (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		



Public Works Canada Whitehorse, Yukon Territory.	COMPLETION DEPTH 5.0 m	COMPLETE 88/10/31
	LOGGED BY CB	DWG NO.

PROJECT NUMBER: 115-G-01 HOLE NUMBER: 034-06
 CLIENT: PWC - CAPITAL Y.T.
 PROJECT NAME: ALASKA HIGHWAY PRE-ENGINEERING
 PROJECT LOCATION: A/H KM 1797
 DRILL UNIT: CAT 225 HOE
 HOLE LOCATION: SEE PLAN
 LOGGED BY: CB DATE COMPLETED: 88.10.31

FIELD NO:	LAB NO:	DEPTH:	TYPE:
9	2716	0.9-1.2	BULK
10	2717	2.8-3.1	BULK
11	2718	4.4-4.7	BULK

SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
101.6	--	101.6	--	101.6	--
76.2	--	76.2	100	76.2	100
50.8	100	50.8	92	50.8	94
38.1	90	38.1	80	38.1	85
25.4	82	25.4	67	25.4	76
19.0	75	19.0	63	19.0	70
12.7	65	12.7	54	12.7	64
9.5	58	9.5	50	9.5	59
4.76	48	4.76	40	4.76	50
2.38	--	2.38	--	2.38	--
2.00	36	2.00	27	2.00	37
1.19	--	1.19	--	1.19	--
0.841	21	0.841	14	0.841	20
0.595	--	0.595	--	0.595	--
0.42	9	0.42	6	0.42	9
0.297	--	0.297	--	0.297	--
0.177	--	0.177	--	0.177	--
0.149	3	0.149	2	0.149	2
0.074	2	0.074	1	0.074	2

M.C. (%): -- M.C. (%): -- M.C. (%): --

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

% GRAVEL:	52	% GRAVEL:	60	% GRAVEL:	50
% SAND:	46	% SAND:	39	% SAND:	48
% FINES:	2	% FINES:	1	% FINES:	2

CLASSIFICATION:	CLASSIFICATION:	CLASSIFICATION:
POORLY GRADED	POORLY GRADED	POORLY GRADED
GRAVEL WITH SAND	GRAVEL WITH SAND	GRAVEL WITH SAND
(GP)	(GP)	(GP)