

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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ALASKA HIGHWAY #1

INTRODUCTION

HIGHWAY CONSTRUCTION

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ALASKA HIGHWAY #1

INTRODUCTION

GEOTECHNICAL INVESTIGATION DATA

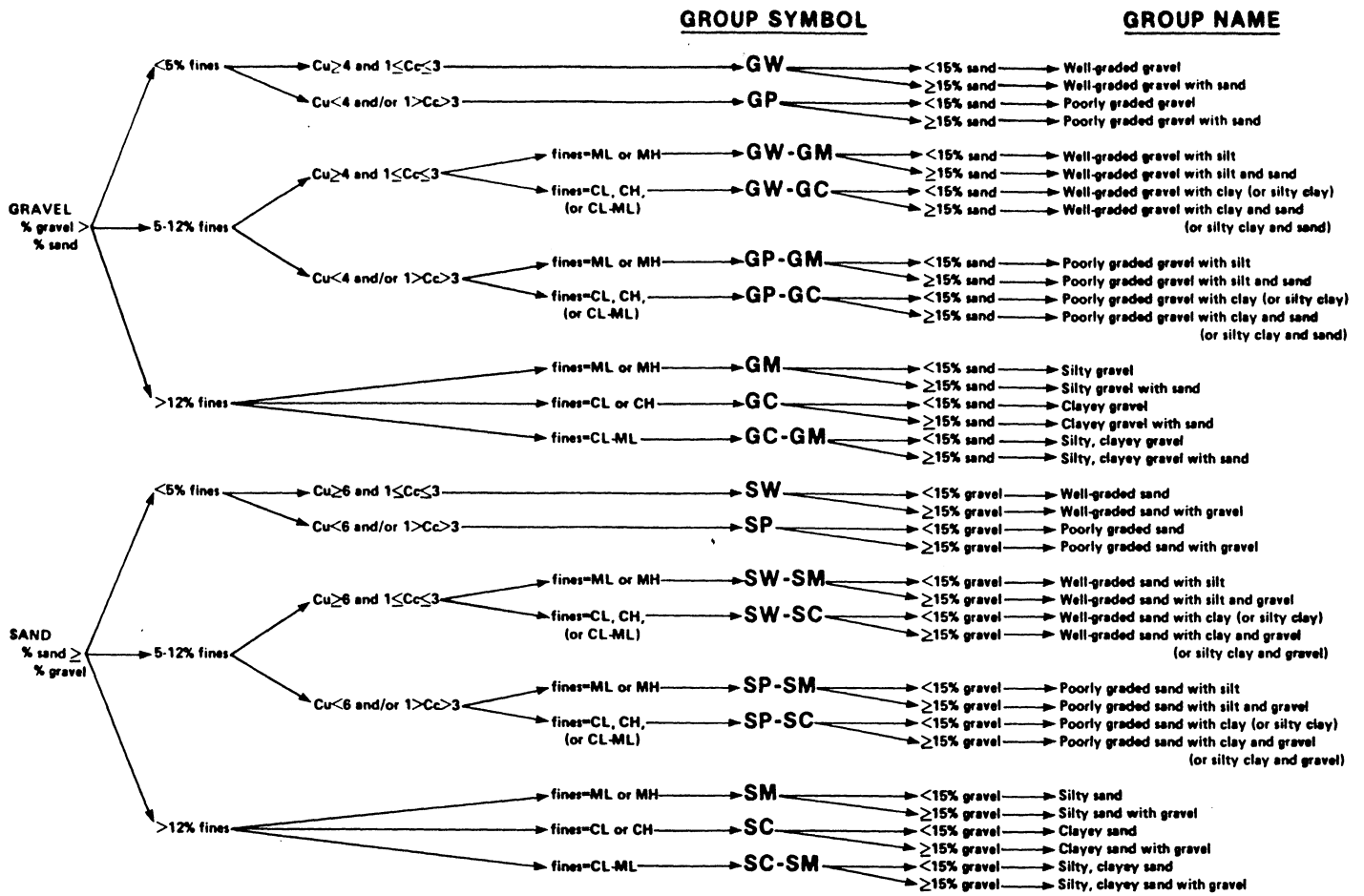
This geotechnical investigation data is provided to assist in the interpretation of soil conditions encountered within this project area. The data presented was prepared solely for Departmental designing and estimating purposes.

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.

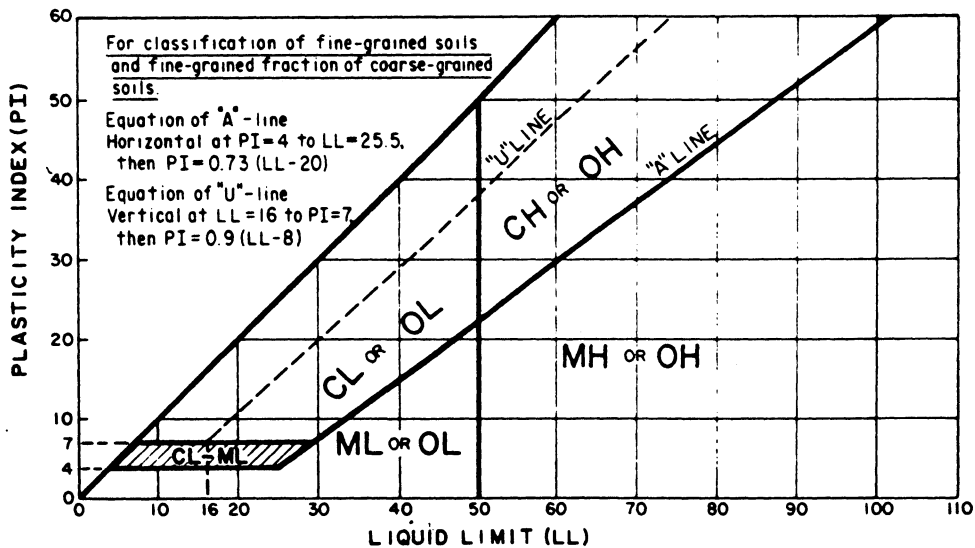
The sample identification and laboratory testing data is provided to give detailed physical properties of selected retrieved samples within the subsurface profile. ***These tests may be conducted on disturbed samples and may exhibit properties different from the native materials. The sample classification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

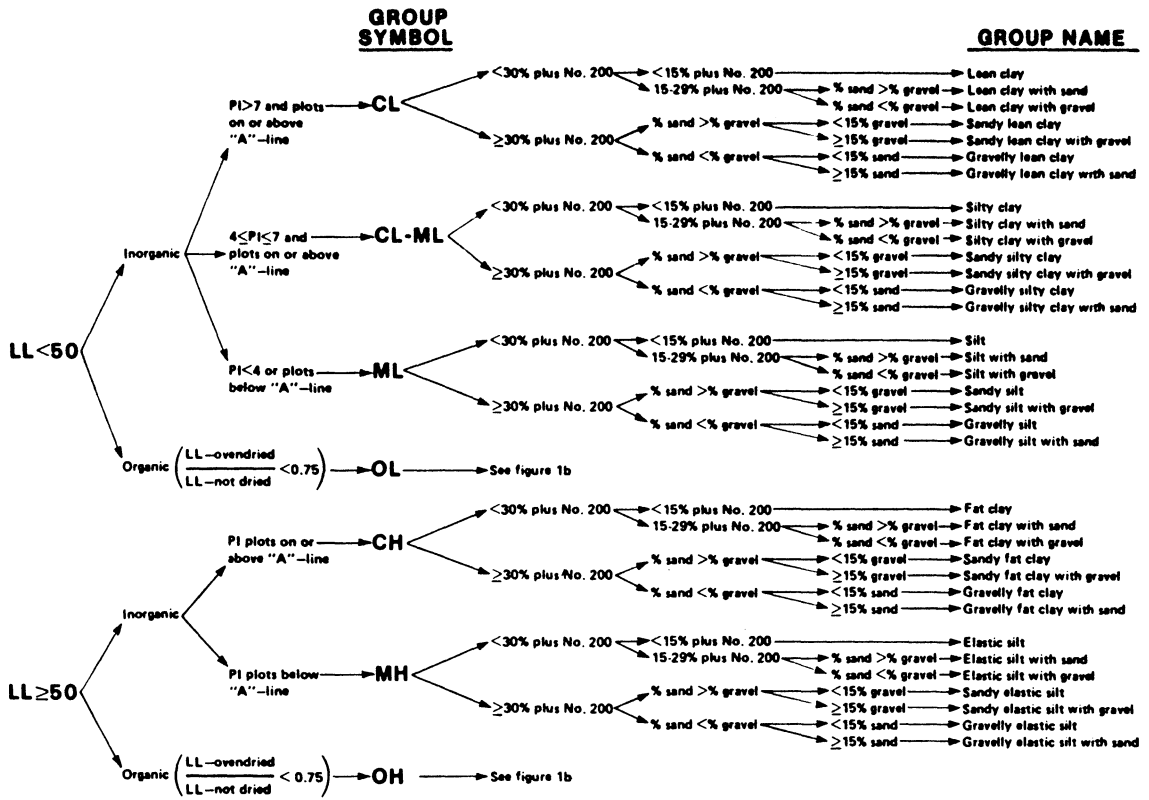
It is recommended that a site inspection, combined with consideration of the regional geology and climatic conditions be conducted. An evaluation of the investigation methods and development work done since the time of investigation should be done prior to interpreting the subsurface conditions at the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



Flow chart for classifying coarse-grained soil.

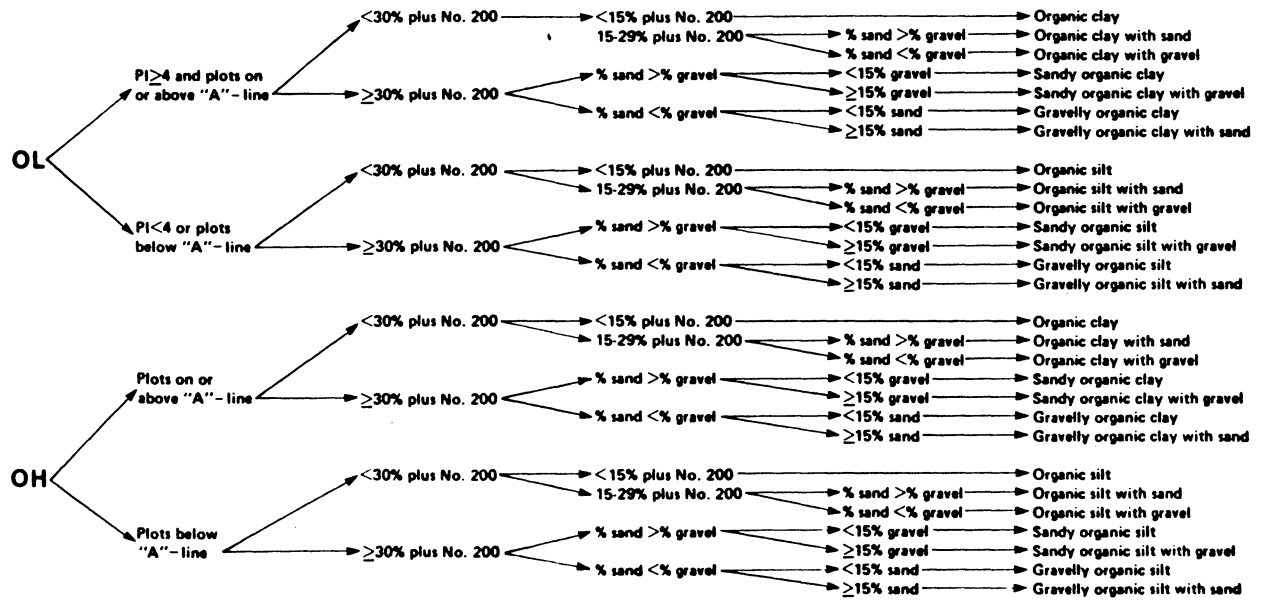


Plasticity chart.



GROUP SYMBOL

GROUP NAME

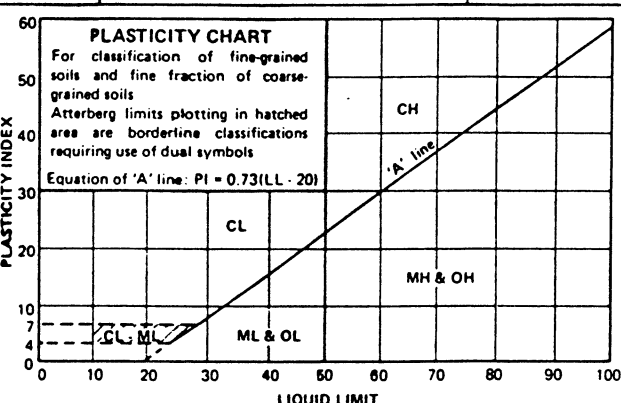


| CRITERIA FOR ASSIGNING GROUP SYMBOLS AND GROUP NAMES USING LABORATORY TESTS ^a | | | | SOIL CLASSIFICATION | | |
|--|---|---|---|---|-------------------------|--|
| | | | | GROUP SYMBOL | GROUP NAME ^b | |
| COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve | GRAVELS More than 50% of coarse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

GROUND ICE DESCRIPTION

ICE NOT VISIBLE

| 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 | | |
|-----|-----------------|--|---|
| | 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 | | | ◆ PERCENT SAND ◆ | |
| | | | | PLASTIC M.C. LIQUID | | | 20 40 60 80 | |
| | | | | 20 40 60 80 | | | ◆ PERCENT SAND ◆ | |
| | | | | | | | ■ 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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YUKON 1999-2000

ALASKA HIGHWAY #1

CENTRELINE TESTING
Km 1787.5 to Km 1797.6
ALASKA HIGHWAY

HIGHWAY CONSTRUCTION

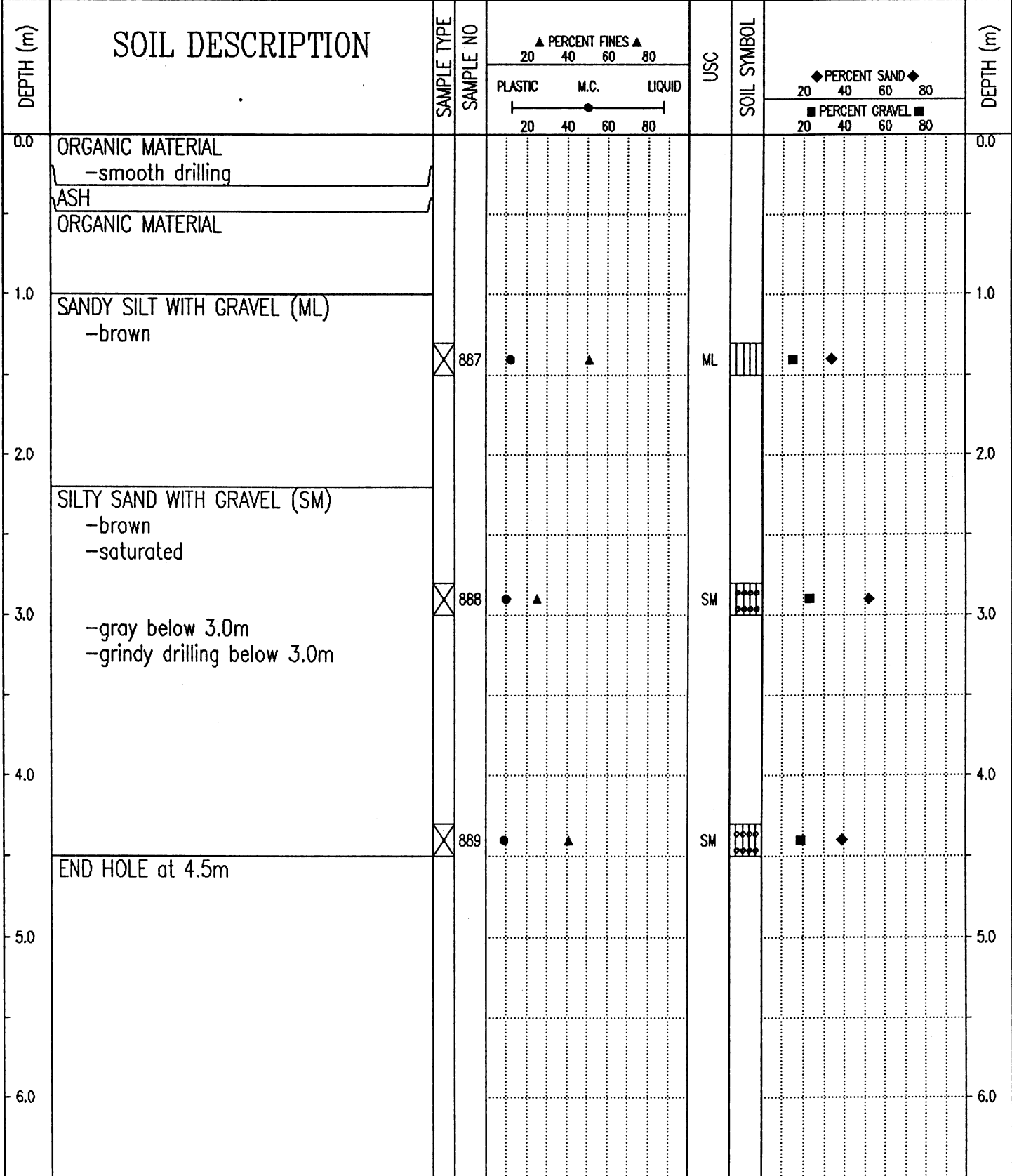
GEOTECHNICAL INVESTIGATION
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CENTRELINE TESTING
Km 1787.5 to Km 1797.6
ALASKA HIGHWAY

| | | |
|--|--------------------------------|-----------------------------|
| 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



| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/04 |
| | Fig. No: | Page 1 of 1 |

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

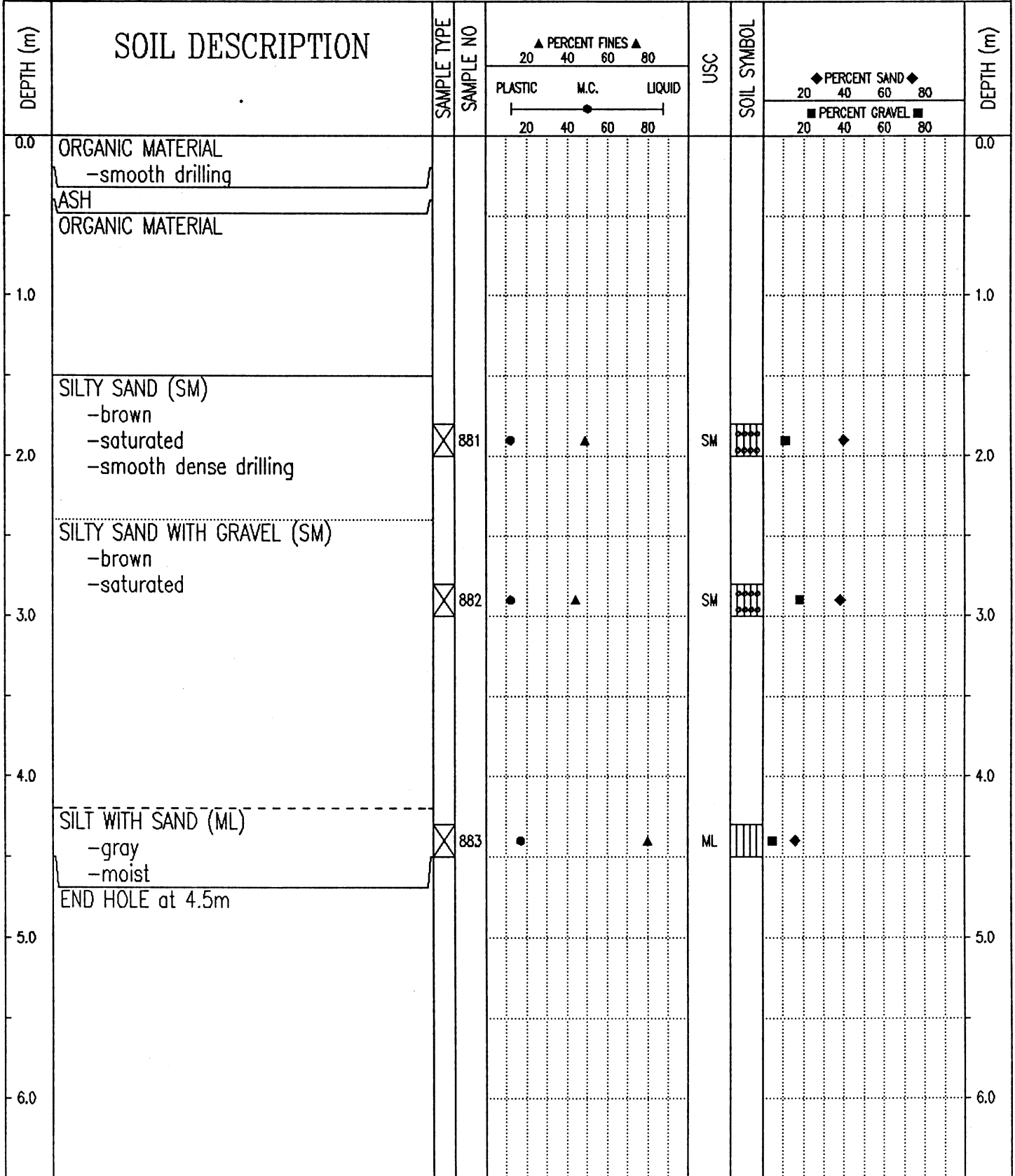
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
| | | | | PLASTIC | 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 | | | | | | | | | | 2.0 |
| 3.0 | SILTY GRAVEL WITH SAND (GM) -brown -moist | <input checked="" type="checkbox"/> | 885 | ● | ▲ | | SM | ▨ | ◆ | ■ | 3.0 |
| 4.0 | SILTY GRAVEL WITH SAND (GM) -brown -moist | | | | | | | | | | 4.0 |
| 5.0 | END HOLE at 4.5m | <input checked="" type="checkbox"/> | 886 | ● | ▲ | | GM | ▨ | ◆ | ■ | 5.0 |
| 6.0 | | | | | | | | | | | 6.0 |

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| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
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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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| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
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| 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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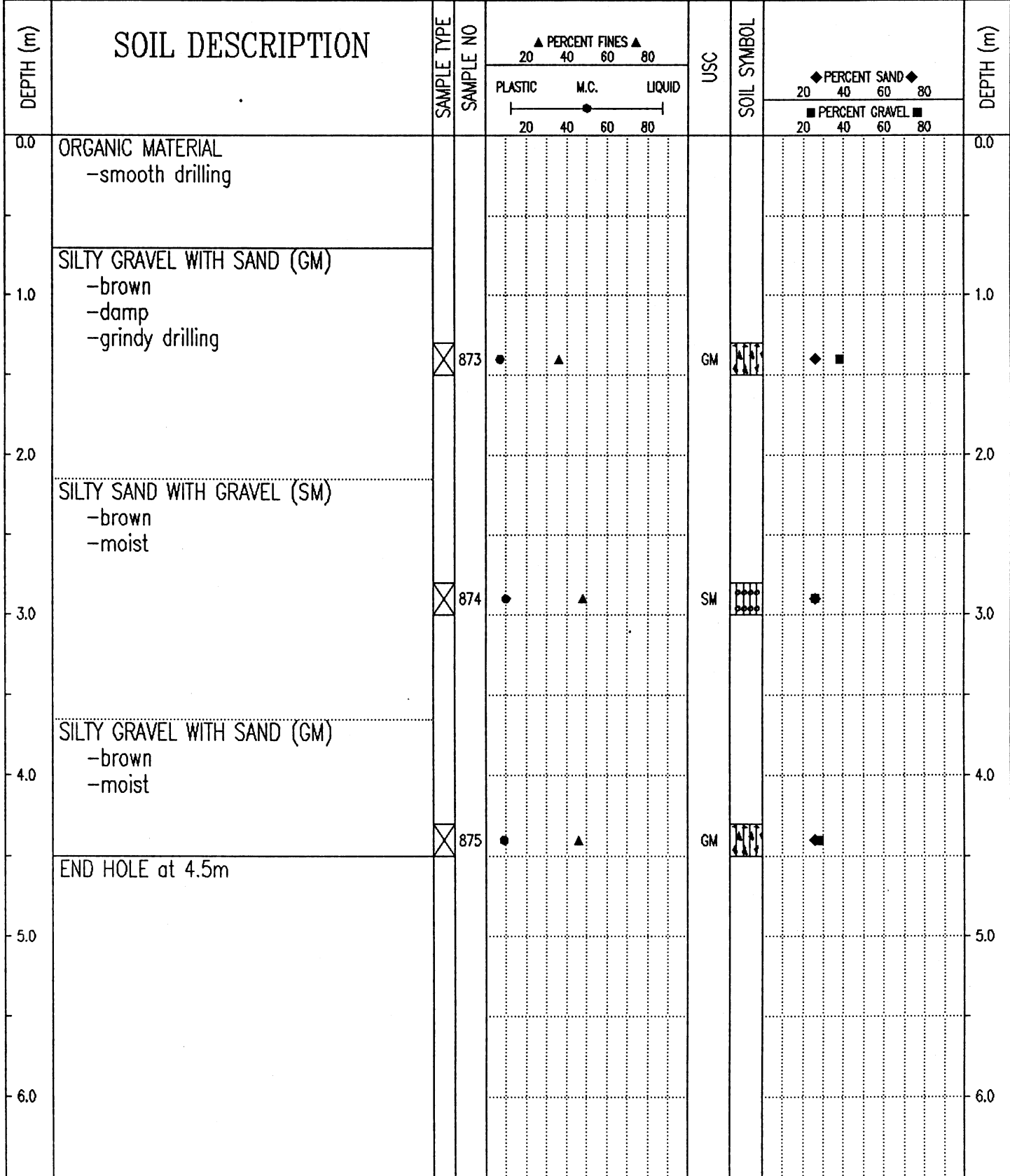
| | |
|---------------|-------------------------|
| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY: | COMPLETE: 95/08/04 |
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SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| 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 | | | | | | | | | | |
| | 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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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | TEST HOLE NO: 373-437 |
| ENGINEERING-CAPITAL | SEGMENT 12B | Project No: 092-202101-0328 |
| Drill: B40L 150mm SOLID STEM AUGER | LOCATION: 1788+350 | ELEVATION: 0.00 (m) |

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

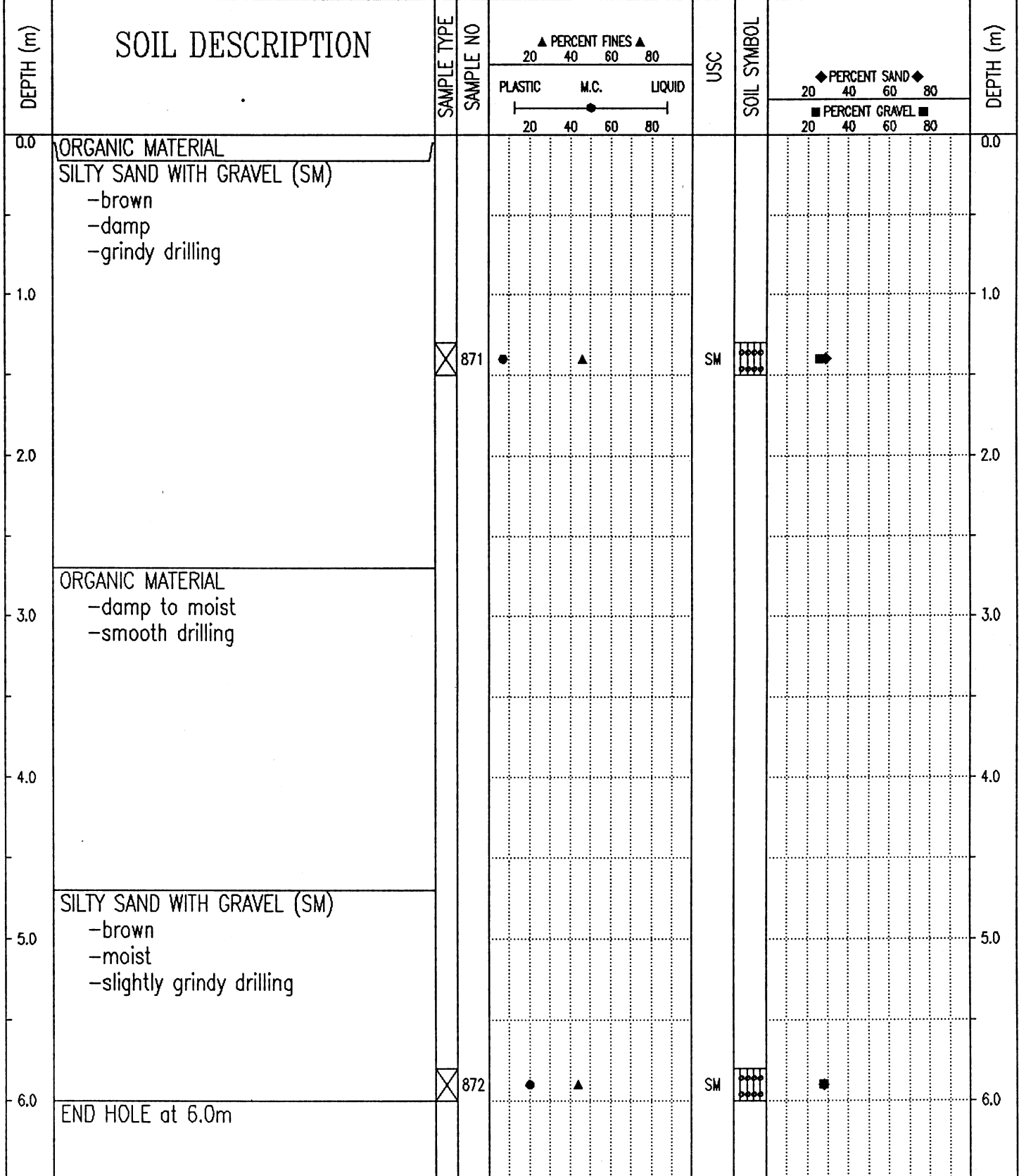


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| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY: | COMPLETE: 95/08/04 |
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|--|--------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 6.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/04 |
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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 | | | PERCENT GRAVEL ■ | PERCENT SAND ◆ | |
| 0.0 | ORGANIC MATERIAL -smooth drilling | | | | | | | | | 0.0 | |
| 0.0 - 1.0 | SILT WITH SAND (ML) -brown -damp | | | | | | | | | | |
| 1.0 | | | | | | | | | | | |
| 1.0 - 2.0 | | | | | | | | | | | |
| 2.0 | | | 868 | ● | | ▲ | ML | ▨ | ◆ | | |
| 2.0 - 2.5 | ASH | | | | | | | | | | |
| 2.5 - 3.0 | SILTY SAND WITH GRAVEL (SM) -brown -damp | | | | | | | | | | |
| 3.0 | | | 869 | ● | ▲ | | SM | ▨ | ◆ | | |
| 3.0 - 4.0 | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | |
| 4.0 - 4.5 | -moist below 4.2m | | | | | | | | | | |
| 4.5 | END HOLE at 4.5m | | 870 | ● | ▲ | | SM | ▨ | ◆ | | |
| 4.5 - 5.0 | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | |
| 5.0 - 6.0 | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | |

| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/04 |
| | Fig. No: | Page 1 of 1 |

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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 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 | | | | | | | | | | | 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 | | 866 | | | | SM | | | | | | |
| 3.0 | | | | | | | | | | | | 3.0 | |
| 4.0 | | | | | | | | | | | | 4.0 | |
| | SANDY SILT (ML) -brown -moist to saturated -organics | | 867 | | | | ML | | | | | | |
| 5.0 | END HOLE at 4.5m -grindy drilling at bottom of hole | | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | | | 6.0 | |

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Fig. No:

COMPLETION DEPTH: 4.5 m

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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 | | | DEPTH (m) |
| | | | | PLASTIC | M.C. | LIQUID | | | PERCENT GRAVEL | | | |
| 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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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

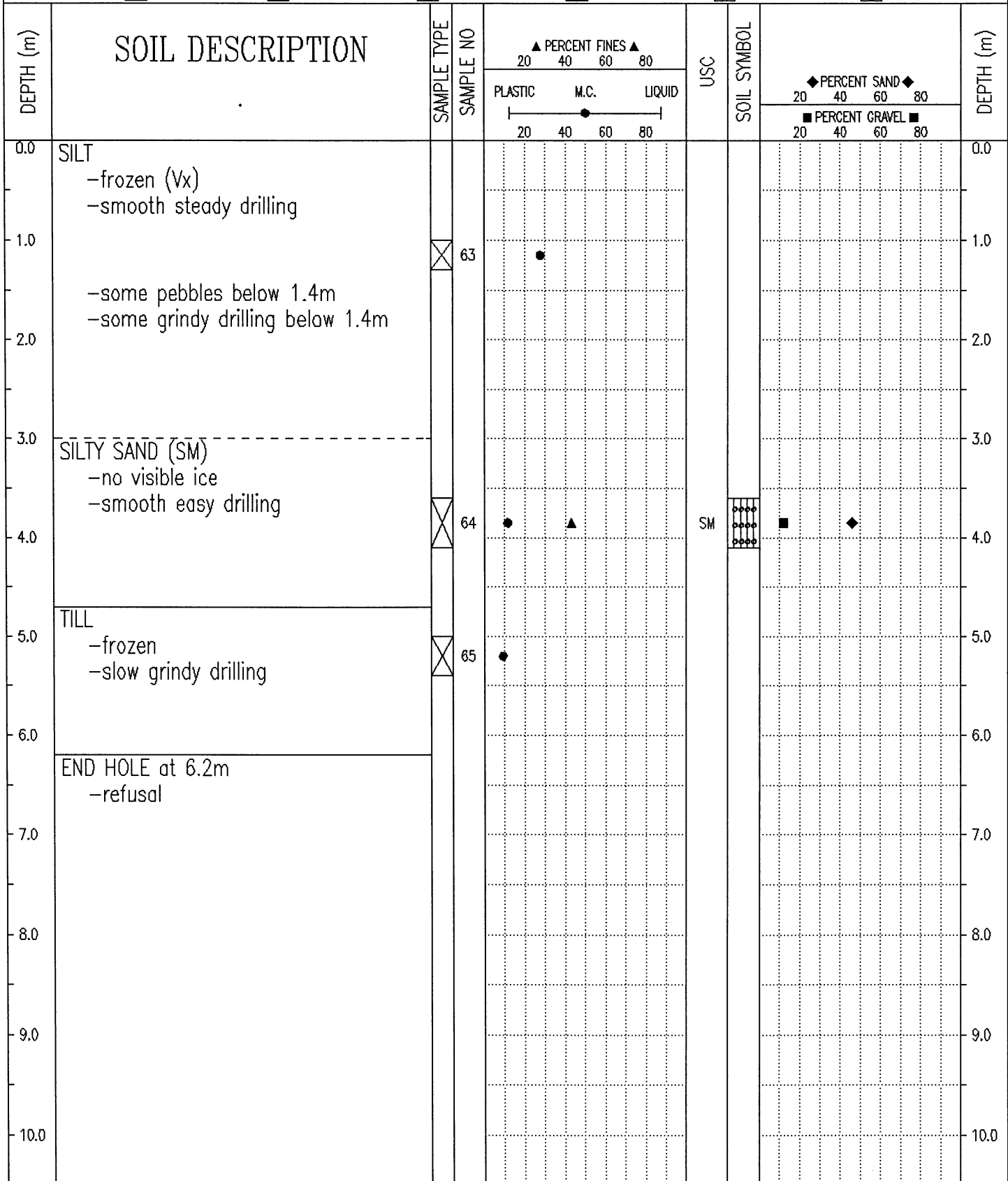
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | PERCENT GRAVEL ■ | | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----|-----------|
| | | | | 20 | 40 | 60 | | | 80 | 20 | 40 | 60 | |
| 0.0 | ORGANIC MATERIAL -smooth drilling ASH -stiffer drilling below 0.4m | | | | | | | | | | | 0.0 | |
| 2.0 | SILTY GRAVEL WITH SAND (GM) -gray -frozen (Vx) with visible ice -maximum 50mm material augered up -grindy drilling | <input checked="" type="checkbox"/> | 856 | ● | ▲ | | GM | | ◆ | ■ | | 2.0 | |
| 3.0 | SILTY SAND (SM) -gray -frozen (Nb) | <input checked="" type="checkbox"/> | 857 | ● | ▲ | | SM | | ◆ | ■ | | 3.0 | |
| 4.0 | SANDY SILT (ML) -gray -frozen (Nb) | <input checked="" type="checkbox"/> | 858 | ● | ▲ | | ML | | ◆ | ■ | | 4.0 | |
| 5.0 | END HOLE at 4.5m | | | | | | | | | | | 5.0 | |

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| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY: | COMPLETE: 95/08/04 |
| Fig. No: | Page 1 of 1 |

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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 |
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| Fig. No: | Page 1 of 1 |

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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) |

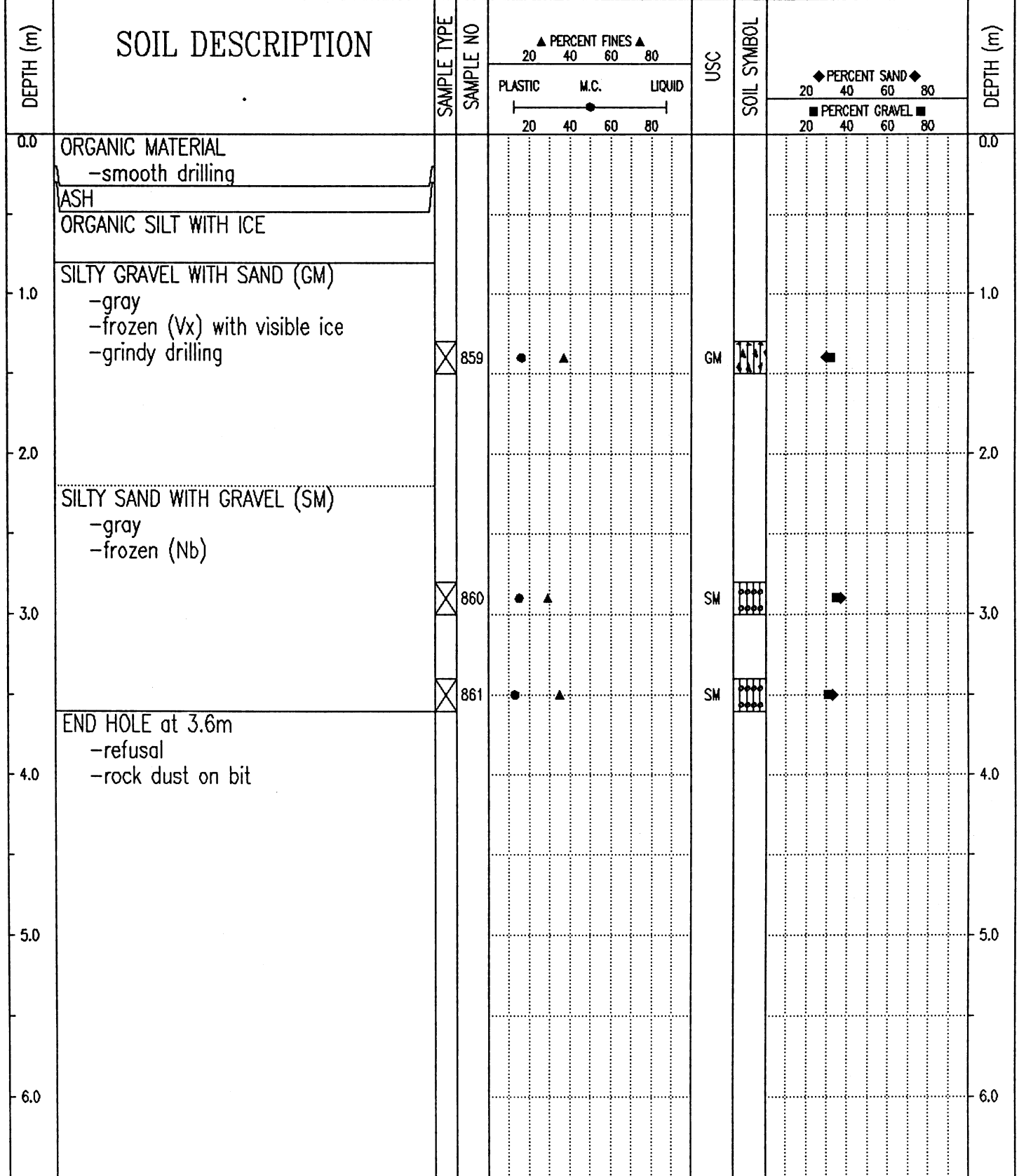
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.1 m |
| | REVIEWED BY: | COMPLETE: 95/08/04 |
| | Fig. No: | Page 1 of 1 |

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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 ◆ | | PERCENT GRAVEL ■ | 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 |
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| Fig. No: | Page 1 of 1 |

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 RETURN S.P.T. AUGER BULK TUBE CORE

| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-----|--------------------|-----------|
| | | | | 20 | 40 | 60 | | | |
| | | | | PLASTIC | M.C. | LIQUID | | | |
| | | | | 20 | 40 | 60 | 80 | ◆ PERCENT SAND ◆ | |
| | | | | 20 | 40 | 60 | 80 | ■ PERCENT GRAVEL ■ | |
| 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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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 |
| | 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 |
| | 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.1 m |
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| | Fig. No: | Page 1 of 1 |

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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 | 60 | 80 | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.2 m |
| | REVIEWED BY: | COMPLETE: 95/08/04 |
| | Fig. No: | Page 1 of 1 |

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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 | ● | ▲ | | ML | ■ | ◆ | | | |
| 2.0 | | | | | | | | | | | 2.0 | |
| 3.0 | SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling | | | | | | | | | | 3.0 | |
| | | <input checked="" type="checkbox"/> | 845 | ● | ▲ | | SM | ■ | ◆ | | | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.1 m |
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| | 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 | | | | | | | | | | 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 | <input type="checkbox"/> | | | 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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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | 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 ◆ | | 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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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.2 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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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 | SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling | | | | | | | | | | 4.0 |
| | | <input checked="" type="checkbox"/> | 834 | ● | ▲ | | SM | ◆ | ■ | | |
| 5.0 | END HOLE at 4.5m | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | 6.0 |

Government of Yukon
Transportation Engineering

LOGGED BY: CC

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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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.4 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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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 | | | PERCENT GRAVEL ■ | PERCENT SAND ◆ | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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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 | | | | | | | | | | | 5.0 | |
| | END HOLE at 4.5m | <input checked="" type="checkbox"/> | 829 | ● | ▲ | | SM | ▣ | ◆ | ■ | | 4.5 | |
| 6.0 | | | | | | | | | | | | 6.0 | |

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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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| 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 | | | | | | | | | | | 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 | | | | | | | | | | 4.0 | |
| 5.0 | | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | | 6.0 | |

Government of Yukon
Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 3.8 m |
| REVIEWED BY: | COMPLETE: 95/08/03 |
| 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 | | | | | | | | | | 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 ◆ | | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | 20 | 40 | |
| 0.0 | ORGANIC MATERIAL -smooth drilling | | | | | | | | | | 0.0 |
| | ASH | | | | | | | | | | |
| | SILT -gray -visible ice -stiffer drilling | | | | | | | | | | |
| 1.0 | | | | | | | | | | | 1.0 |
| | SILTY GRAVEL WITH SAND (GM) -gray -frozen (Vx) with visible ice -grindy drilling | <input checked="" type="checkbox"/> | 820 | ● | ▲ | | GM | ◆ | ■ | | |
| 2.0 | | | | | | | | | | | 2.0 |
| | SILTY SAND WITH GRAVEL (SM) -gray -frozen (Nb) -grindy drilling | <input checked="" type="checkbox"/> | 821 | ● | ▲ | | SM | ◆ | ■ | | |
| 3.0 | | | | | | | | | | | 3.0 |
| | END HOLE at 3.6m -refusal -rock dust on bit | | | | | | | | | | |
| 4.0 | | | | | | | | | | | 4.0 |
| | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | 5.0 |
| | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | 6.0 |

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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.6 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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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 | |
| 4.0 | END HOLE at 2.8m -refusal -rock dust on bit | | | | | | | | | | 4.0 | |
| 5.0 | | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | | 6.0 | |

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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.8 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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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 | |

Government of Yukon
Transportation Engineering

LOGGED BY: CC
REVIEWED BY:
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: 373-411 |
| 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) |
|-----------|---|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----|-----------|
| | | | | 20 | 40 | 60 | | | 80 | 20 | 40 | 60 | |
| 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 | | | | | | | | | | | 3.0 | |
| | | <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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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| 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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Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 2.5 m |
| REVIEWED BY: | COMPLETE: 95/08/03 |
| Fig. No: | Page 1 of 1 |

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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 | |

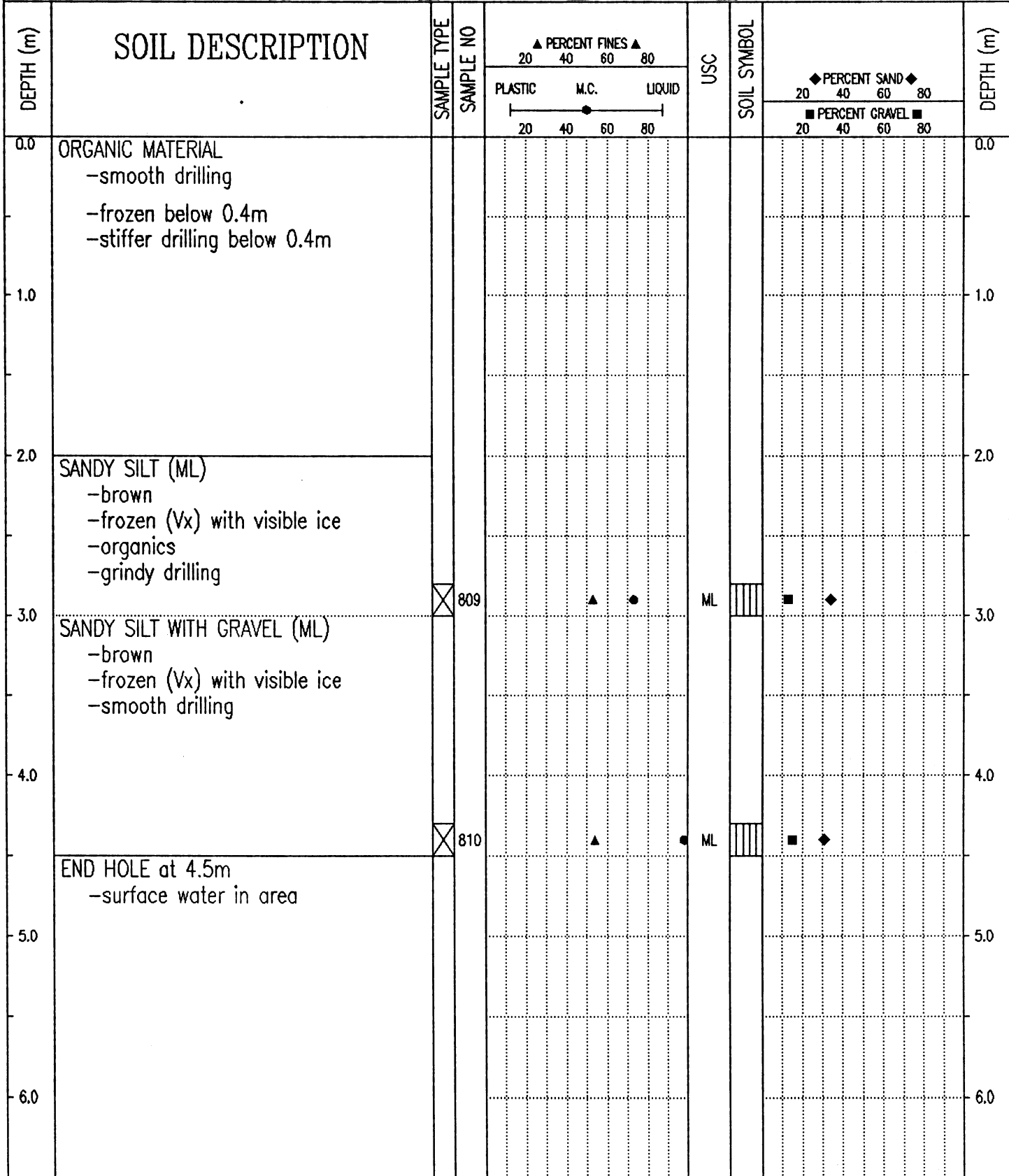
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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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 | | | | | | | | | | 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 |

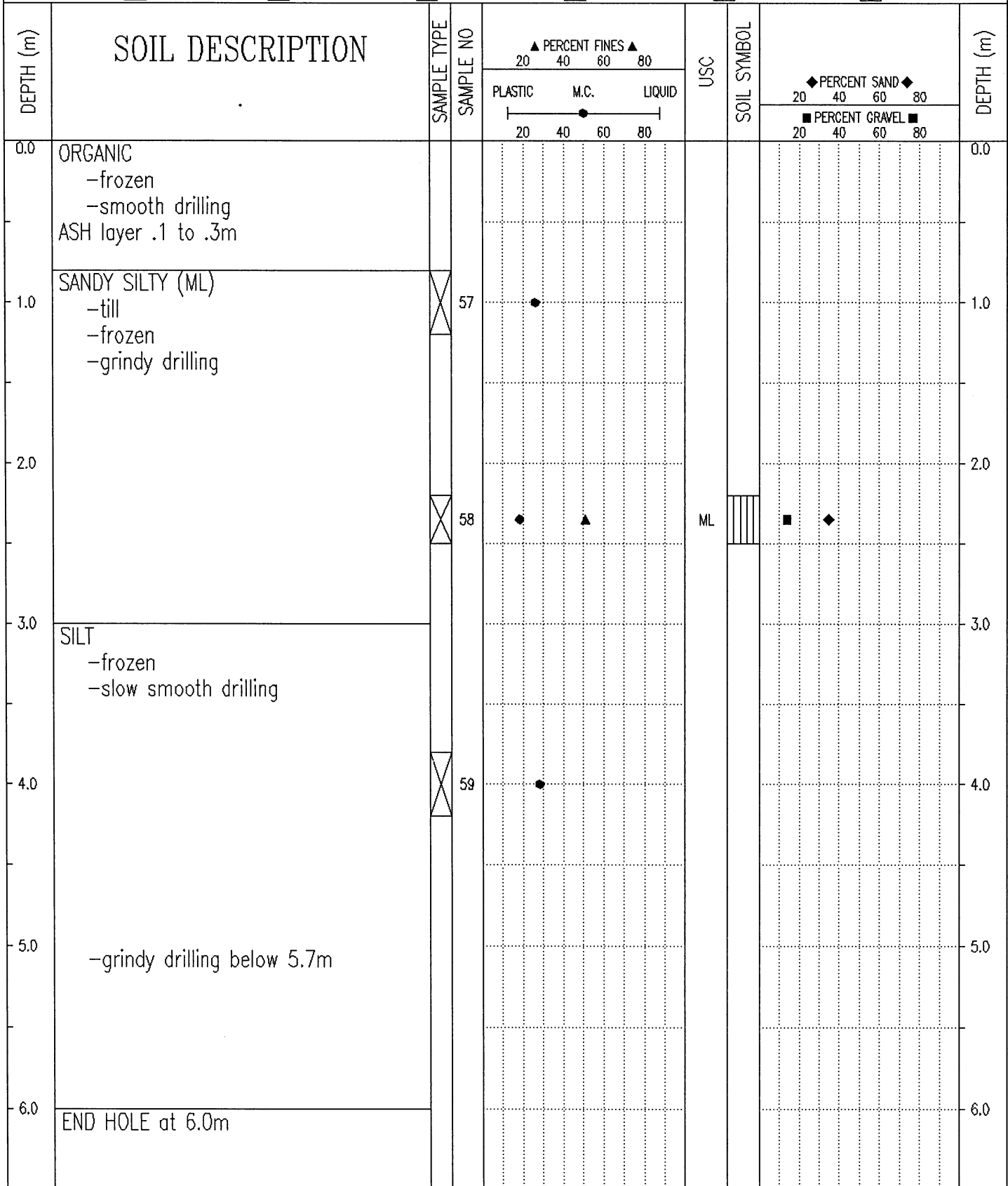
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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | TEST HOLE NO: 373-405 |
| ENGINEERING-CAPITAL | SEGMENT 12B | Project No: 092-202101-0328 |
| Drill: B40L 150mm SOLID STEM AUGER | LOCATION: 1790+240 o/s 20m Rt. | ELEVATION: 0.00 (m) |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/03 |
| | Fig. No: | Page 1 of 1 |

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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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Transportation Engineering

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| LOGGED BY: B.S. | COMPLETION DEPTH: 6.0 m |
| REVIEWED BY: | COMPLETE: 98/12/03 |
| Fig. No: | Page 1 of 1 |

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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 | |

Government of Yukon
Transportation Engineering

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Fig. No:

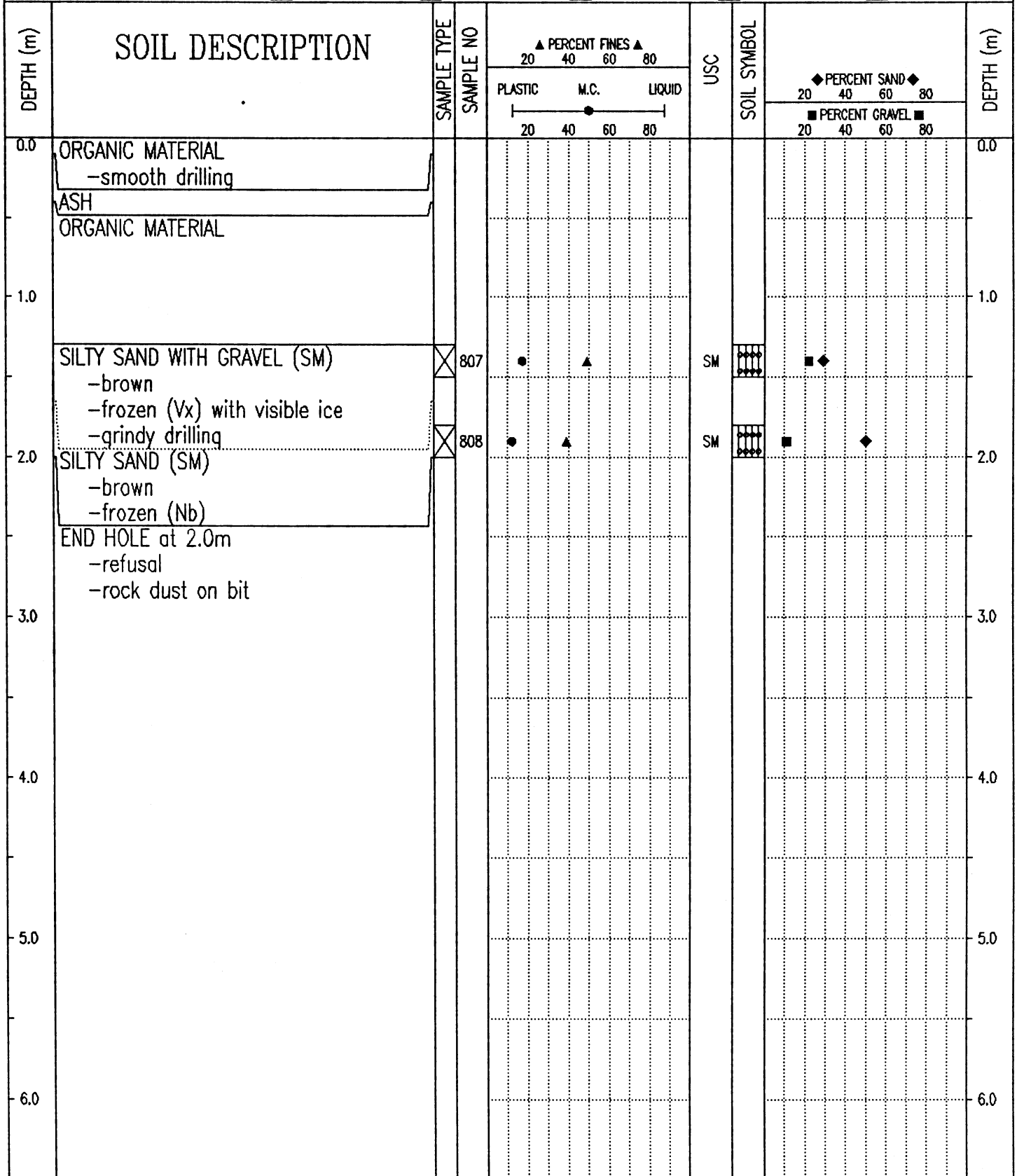
COMPLETION DEPTH: 2.7 m

COMPLETE: 95/08/02

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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



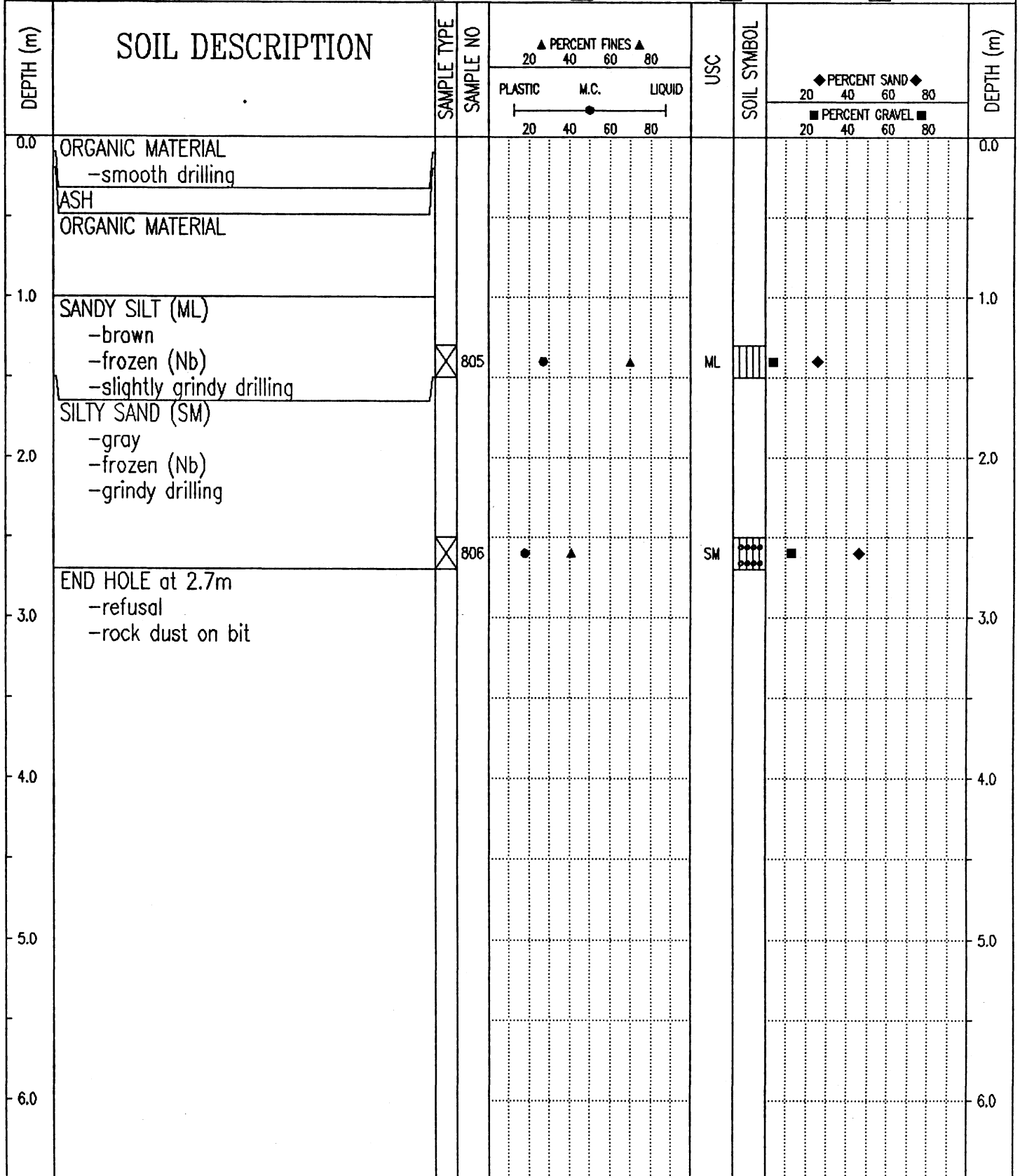
| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.7 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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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 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.7 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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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

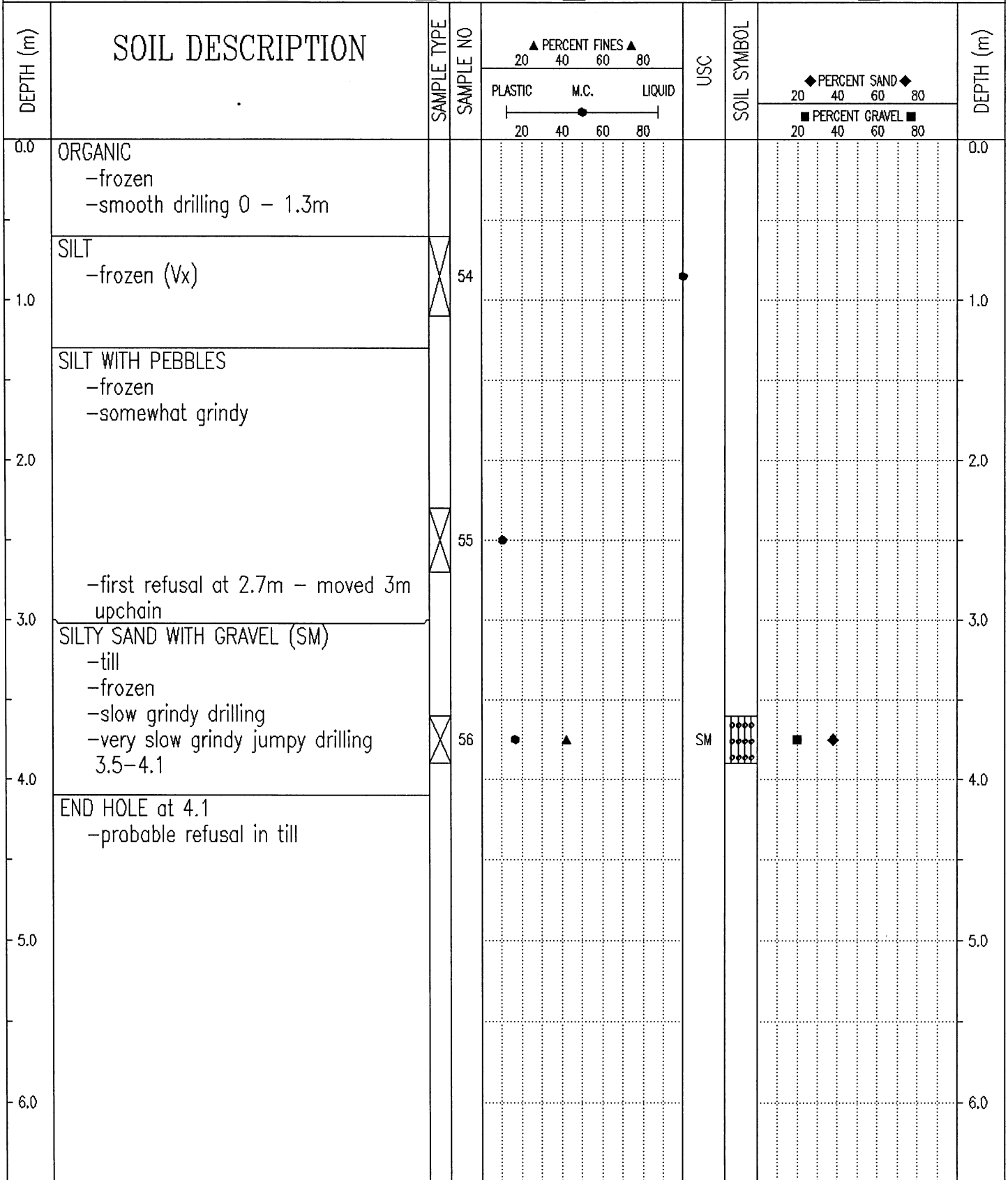
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----------|
| | | | | 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 |
| 2.0 | SILTY SAND -brown -frozen -slightly grindy drilling below 2.0m | | | | | | | | | | | 2.0 |
| 3.0 | SILTY SAND WITH GRAVEL (SM) -brown -frozen -grindy drilling END HOLE at 3.0m -refusal -rock dust on bit | <input checked="" type="checkbox"/> | 792 | ● | ▲ | | SM | ▨ | ◆ | ■ | | 3.0 |
| 4.0 | | | | | | | | | | | | 4.0 |
| 5.0 | | | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | | 6.0 |

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Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 3.0 m |
| REVIEWED BY: | COMPLETE: 95/08/02 |
| Fig. No: | Page 1 of 1 |

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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



Government of Yukon
Transportation Engineering

LOGGED BY: B.S.

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 4.1 m

COMPLETE: 98/12/03

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| 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 | | | | | | | | | | | 0.0 | |
| 1.0 | SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling | | 798 | ● | ▲ | | SM | ◆◆◆◆ | ◆ | | | 1.0 | |
| 2.0 | | | | | | | | | | | | 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 | ◆◆◆◆ | ◆ | ■ | ◆ | 3.0 | |
| 4.0 | | | | | | | | | | | | 4.0 | |
| 5.0 | | | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | | | 6.0 | |

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Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 2.6 m |
| REVIEWED BY: | COMPLETE: 95/08/02 |
| Fig. No: | Page 1 of 1 |

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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 ◆ | | PERCENT GRAVEL ■ | | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | 20 | 40 | 60 | 80 | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 1.7 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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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 |

Government of Yukon
Transportation Engineering

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Fig. No:

COMPLETION DEPTH: 3.0 m

COMPLETE: 95/08/02

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| 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 | | | | | | | | | | | 0.0 | |
| | ASH | | | | | | | | | | | | |
| | SILT (ML) -brown -frozen (Vx) with visible ice -organic | | | | | | | | | | | | |
| 1.0 | | | | | | | | | | | | 1.0 | |
| | | <input checked="" type="checkbox"/> | 800 | | | | ML | | ◆ | | | | |
| | SILTY SAND (SM) -brown -frozen (Nb) -grindy drilling | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | 2.0 | |
| | | <input checked="" type="checkbox"/> | 801 | | | | SM | | ◆ | ■ | | | |
| | END HOLE at 2.5m -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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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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 | | | | | | | | | | 5.0 | |
| | END HOLE at 4.5m | <input checked="" type="checkbox"/> | 803 | ● | ▲ | | SM | ◆ | ■ | | |
| 6.0 | | | | | | | | | | 6.0 | |

Government of Yukon
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Fig. No:

COMPLETION DEPTH: 4.5 m

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 | 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 |

95/01/02 03:42PM

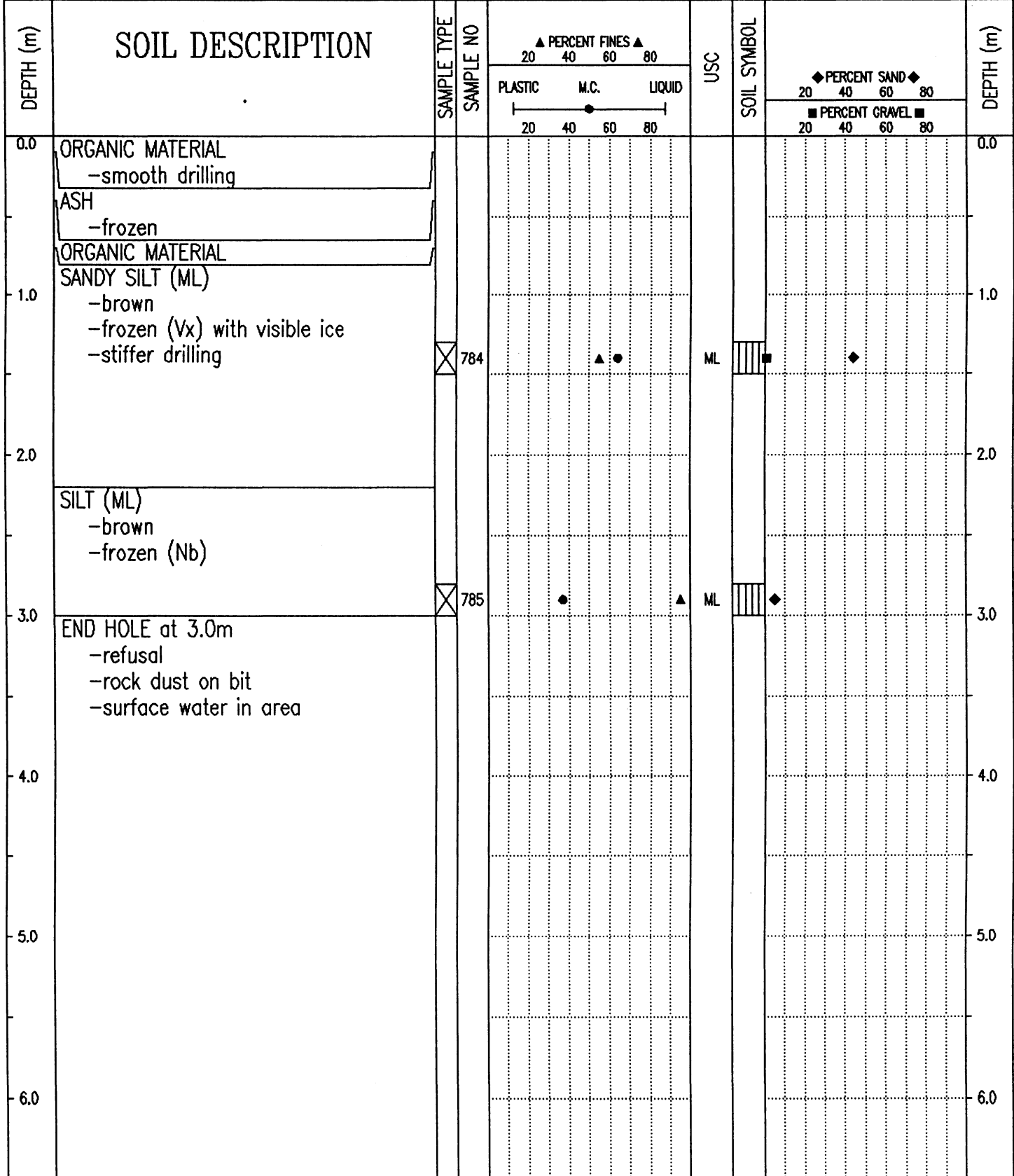
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| 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 |
| 1.5 | SILTY SAND (SM) -brown -frozen (Vx) with visible ice | <input checked="" type="checkbox"/> | 787 | ● | ▲ | | SM | ◆ | ■ | | |
| 2.0 | | | | | | | | | | | 2.0 |
| 2.5 | SANDY GRAVEL -gray -frozen (Nb) -some silt -maximum 50mm material augered up -grindy drilling -sample #788 spilled | <input checked="" type="checkbox"/> | 788 | ● | | | | | | | |
| 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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Fig. No:

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

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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

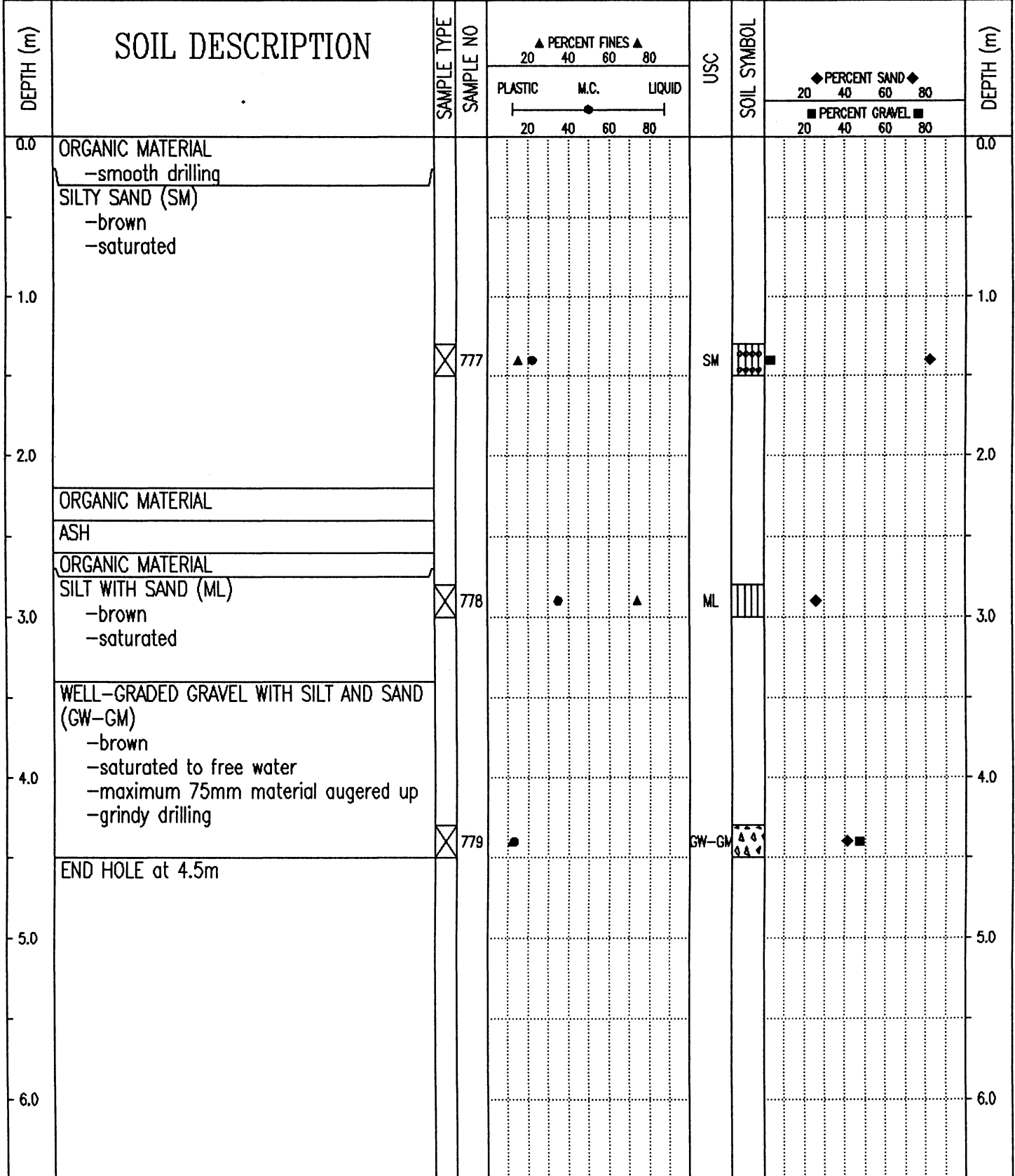
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
| | | | | PLASTIC | 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 | | | | ML | | ◆ | | 1.0 |
| 2.0 | | | | | | | | | | | 2.0 |
| 3.0 | SILT (ML) -brown -frozen (Nb) | <input checked="" type="checkbox"/> | 783 | | | | 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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| LOGGED BY: CC | COMPLETION DEPTH: 3.7 m |
| REVIEWED BY: | COMPLETE: 95/08/02 |
| Fig. No: | Page 1 of 1 |

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| 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) |

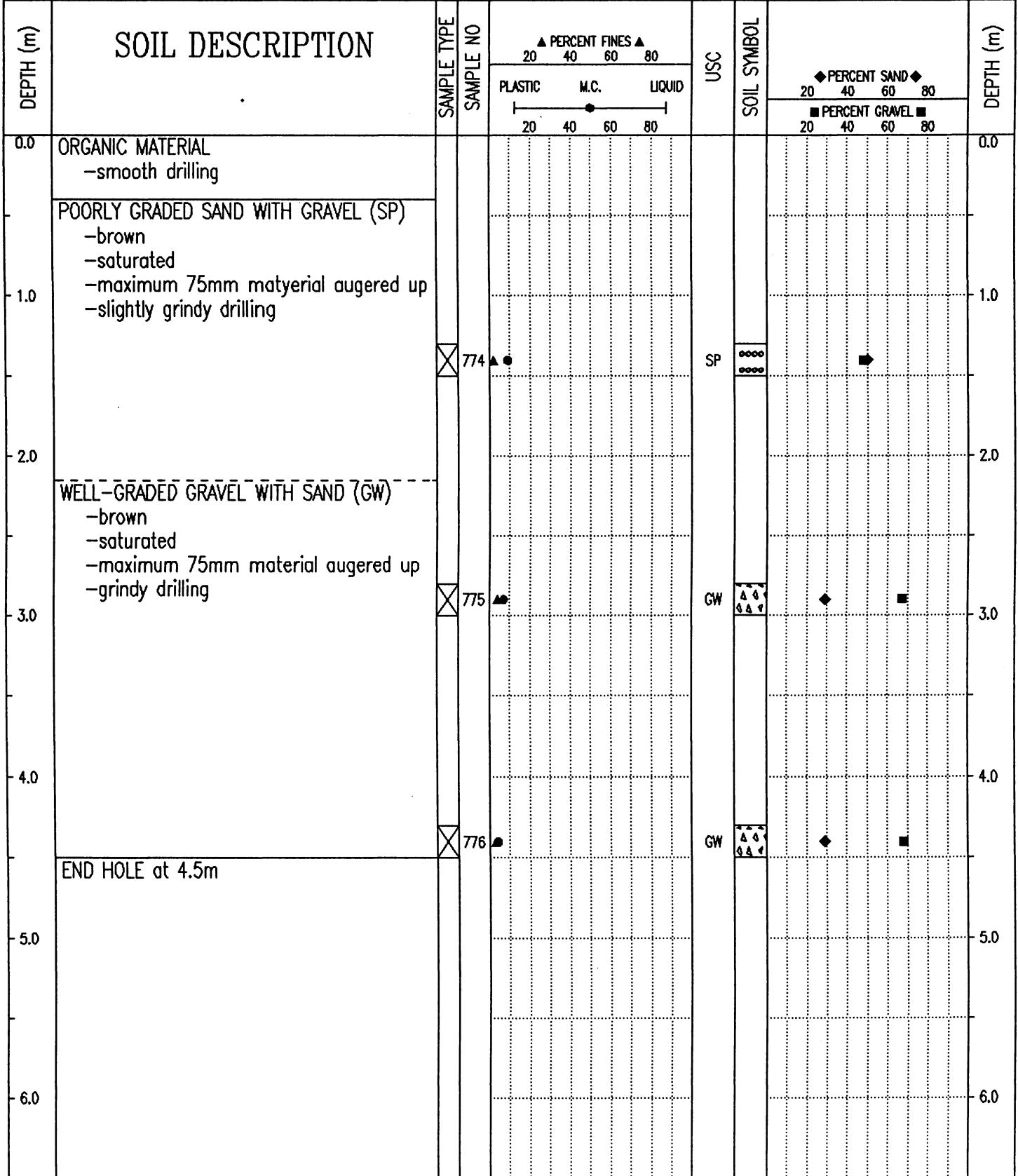
| | | | | | | |
|-------------|--|--|---|-------------------------------|-------------------------------|-------------------------------|
| SAMPLE TYPE | <input checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/>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



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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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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

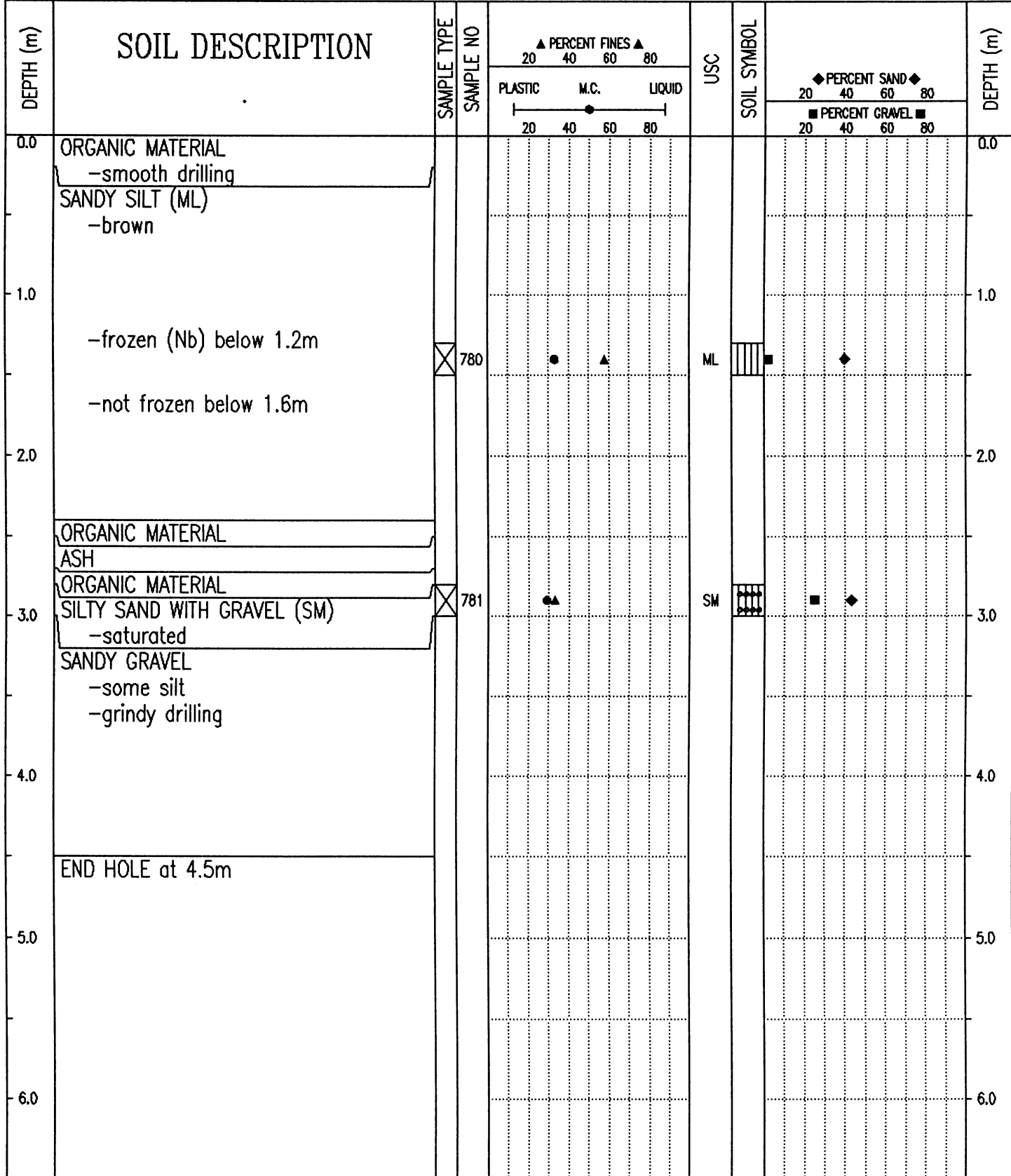


Government of Yukon
Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY: | COMPLETE: 95/08/02 |
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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) |

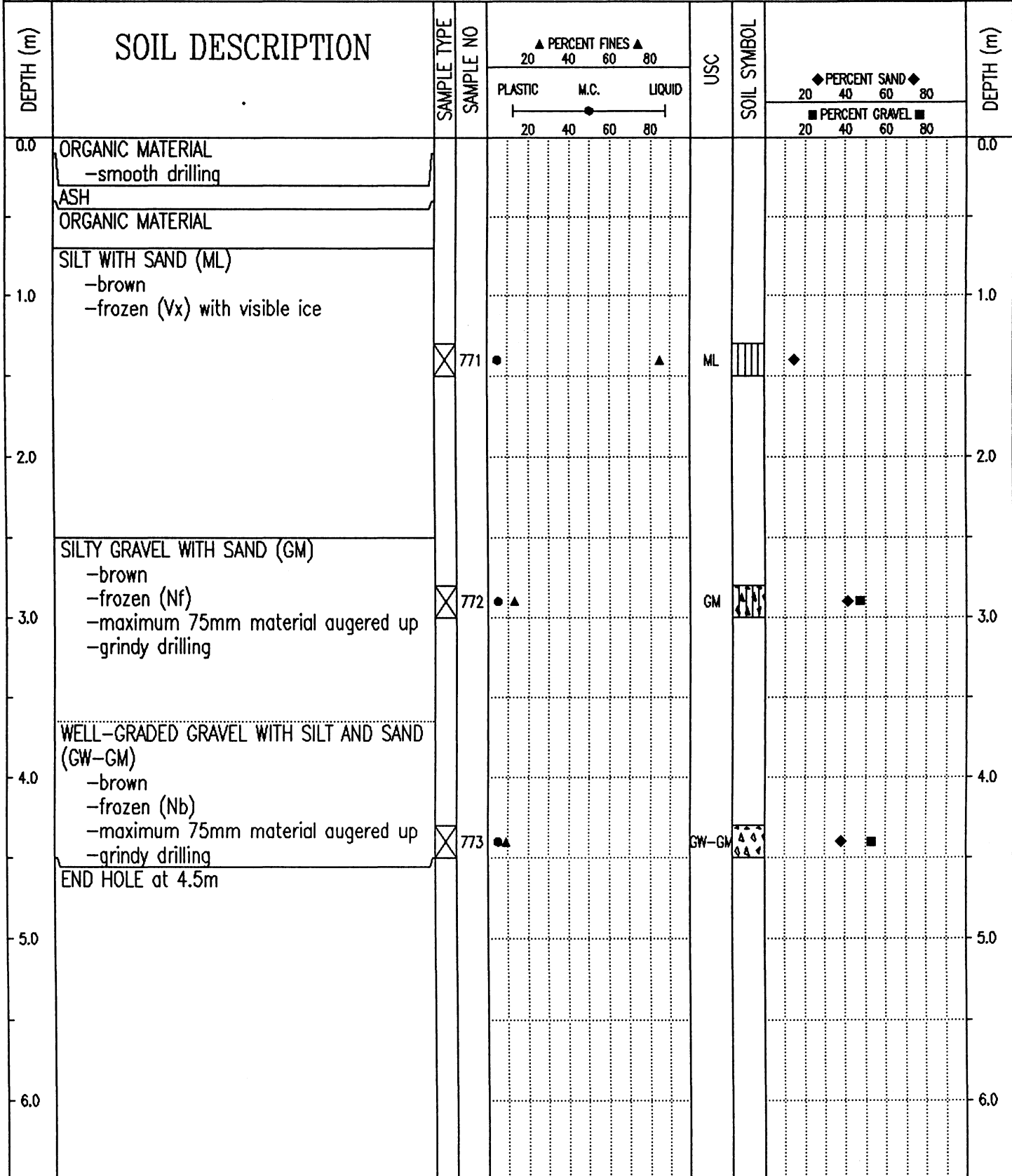
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



Government of Yukon
Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
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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 | 45 | 55 | 75 | ML | ML | 45 | | |
| 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 | 45 | | | | | | | |
| 4.0 | | | | | | | | | | 4.0 | |
| 5.0 | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | 6.0 | |

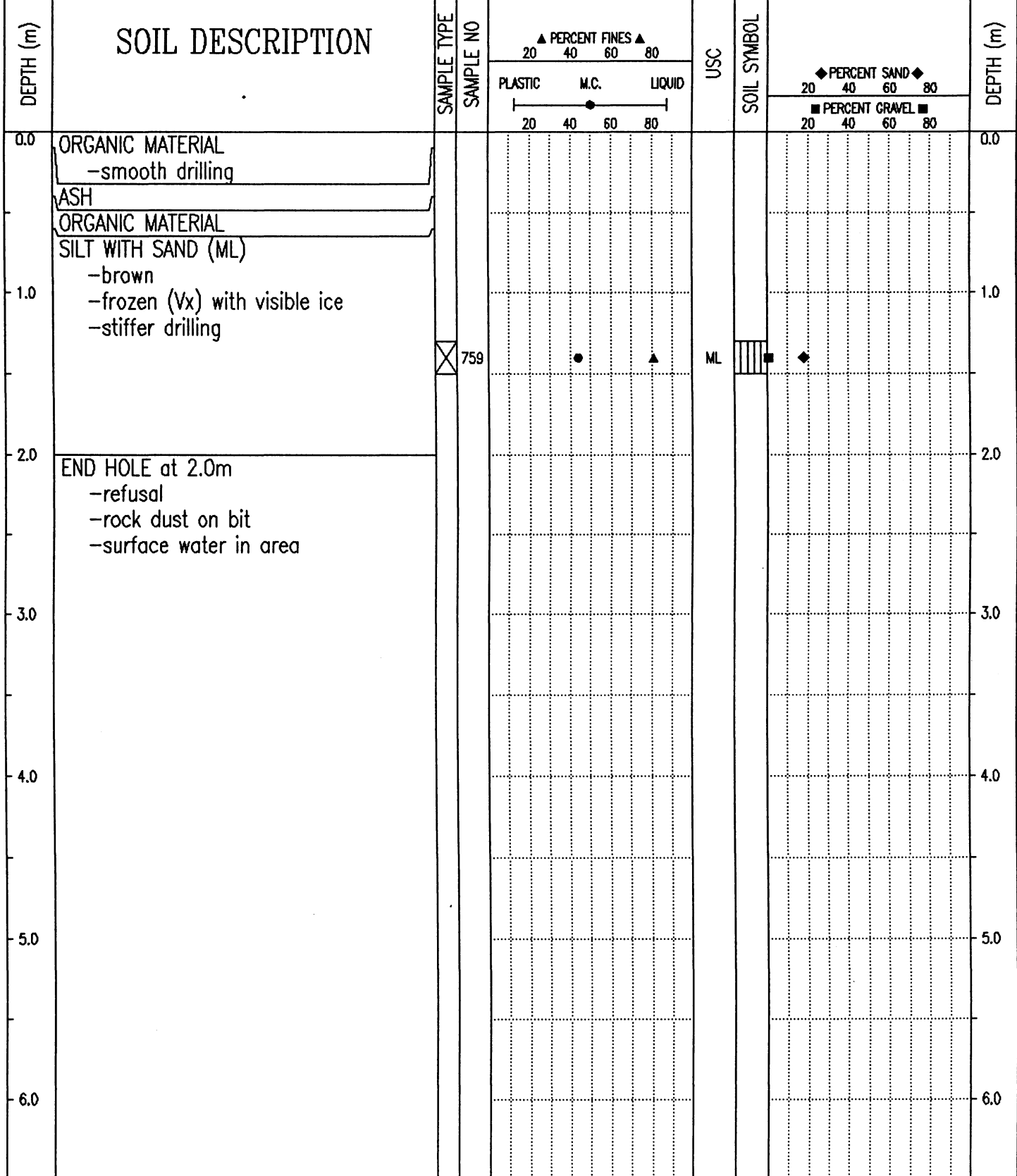
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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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 | | | | | | | | | | 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 | | | | |
| 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 |

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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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|--|--------------------------------|-----------------------------|
| 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 | | | | | | | | | |
| | END HOLE at 1.5m -refusal -rock dust on bit -surface water in area | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | 2.0 |
| | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | 3.0 |
| | | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | | 4.0 |
| | | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | | 5.0 |
| | | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | 6.0 |

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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 1.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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

96/01/02 12:53PM

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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 | |
| | SILTY GRAVEL WITH SAND (GM) -brown -frozen (Nb) -grindy drilling | <input checked="" type="checkbox"/> | 753 | ● | ▲ | | GM | | ◆ | ■ | | | |
| 2.0 | SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling | <input checked="" type="checkbox"/> | 754 | ● | ▲ | | SM | | ■ | ◆ | | | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.7 m |
| | REVIEWED BY: | COMPLETE: 95/08/02 |
| | Fig. No: | Page 1 of 1 |

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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 | |

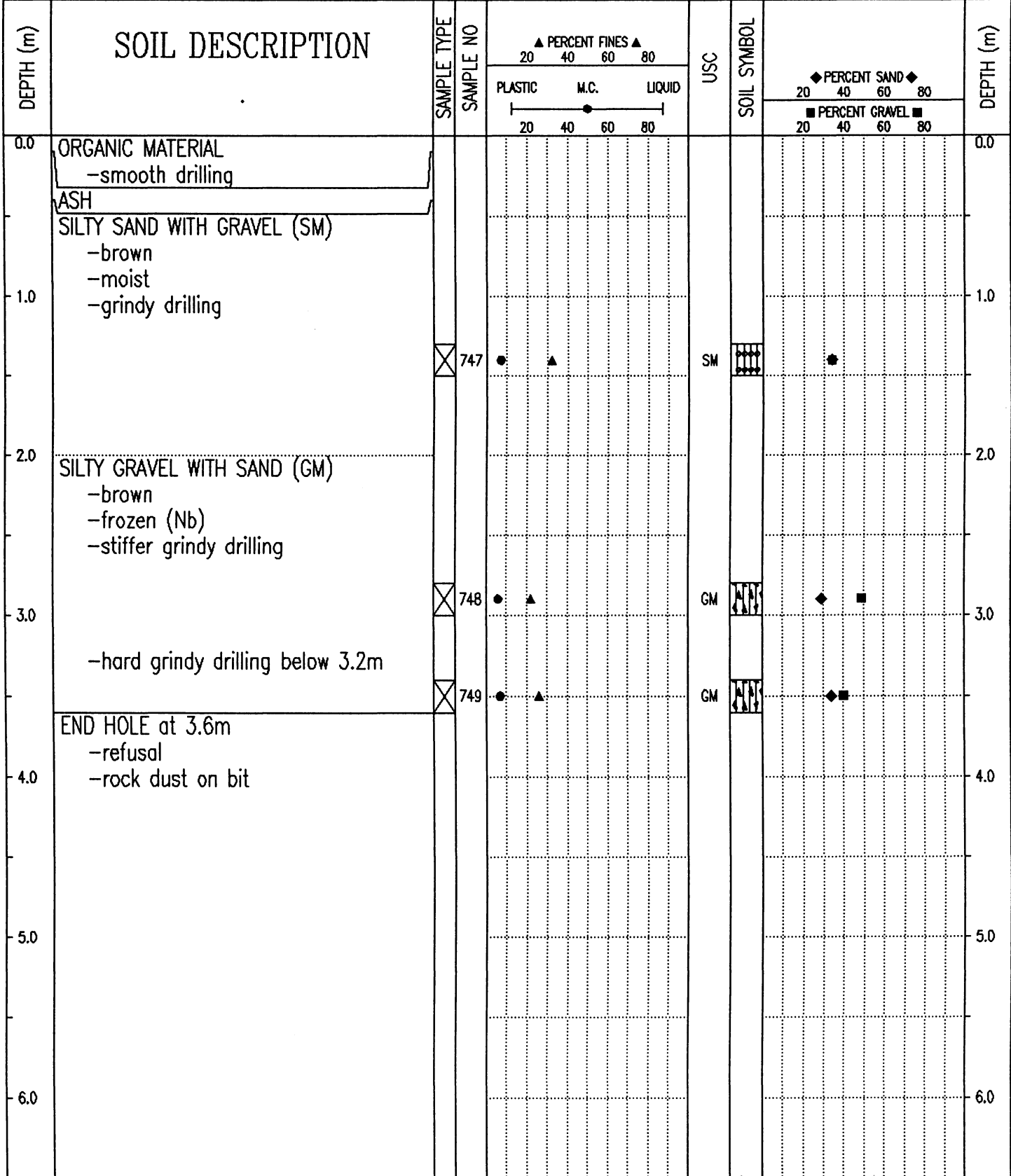
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Transportation Engineering

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REVIEWED BY:
Fig. No:

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

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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: 372-376 |
| 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 | |
| 4.0 | | | | | | | | | | | | 4.0 | |
| | END HOLE at 4.5m | <input checked="" type="checkbox"/> | 746 | ● | ▲ | | ML | | ◆ | ■ | | | |
| 5.0 | | | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | | | 6.0 | |

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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | TEST HOLE NO: 372-374 |
| ENGINEERING-CAPITAL | SEGMENT 12B | Project No: 092-202101-0328 |
| Drill: B40L 150mm SOLID STEM AUGER | LOCATION: 1791+825 | 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 | |
| | 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 | |

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| LOGGED BY: CC | COMPLETION DEPTH: 4.2 m |
| REVIEWED BY: | COMPLETE: 95/08/01 |
| Fig. No: | Page 1 of 1 |

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| 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 | | | | | | | | | | | | |
| | ORGANIC MATERIAL -frozen -stiffer drilling | | | | | | | | | | | | |
| 1.0 | | | | | | | | | | | | 1.0 | |
| | SILTY SAND (SM) -brown -frozen (Nb) -grindy drilling | <input checked="" type="checkbox"/> | 738 | ● | ▲ | | SM | ▨ | ◆ | ■ | | 2.0 | |
| 2.0 | | | | | | | | | | | | | |
| | SANDY SILT (ML) -brown -frozen (Nb) -hard smooth drilling | <input checked="" type="checkbox"/> | 737 | ● | ▲ | | ML | ▨ | ◆ | | | 3.0 | |
| 3.0 | | | | | | | | | | | | | |
| | SILTY SAND WITH GRAVEL (SM) -brown -frozen (Nb) -grindy drilling | <input checked="" type="checkbox"/> | 738 | ● | ▲ | | SM | ▨ | ◆ | ■ | | 4.0 | |
| 4.0 | | | | | | | | | | | | | |
| | END HOLE at 4.2m -refusal -rock dust on bit | | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | | | 6.0 | |

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Fig. No:

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 ▲ | | | 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 -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) | | | | | | | | | | |
| 3.0 | -grindy drilling below 3.1m | | | | | | | | | | |
| | 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 |

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| 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 ◆ | | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-------|-------------|------------------|----------------|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | PERCENT GRAVEL ■ | PERCENT SAND ◆ | |
| 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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Fig. No:

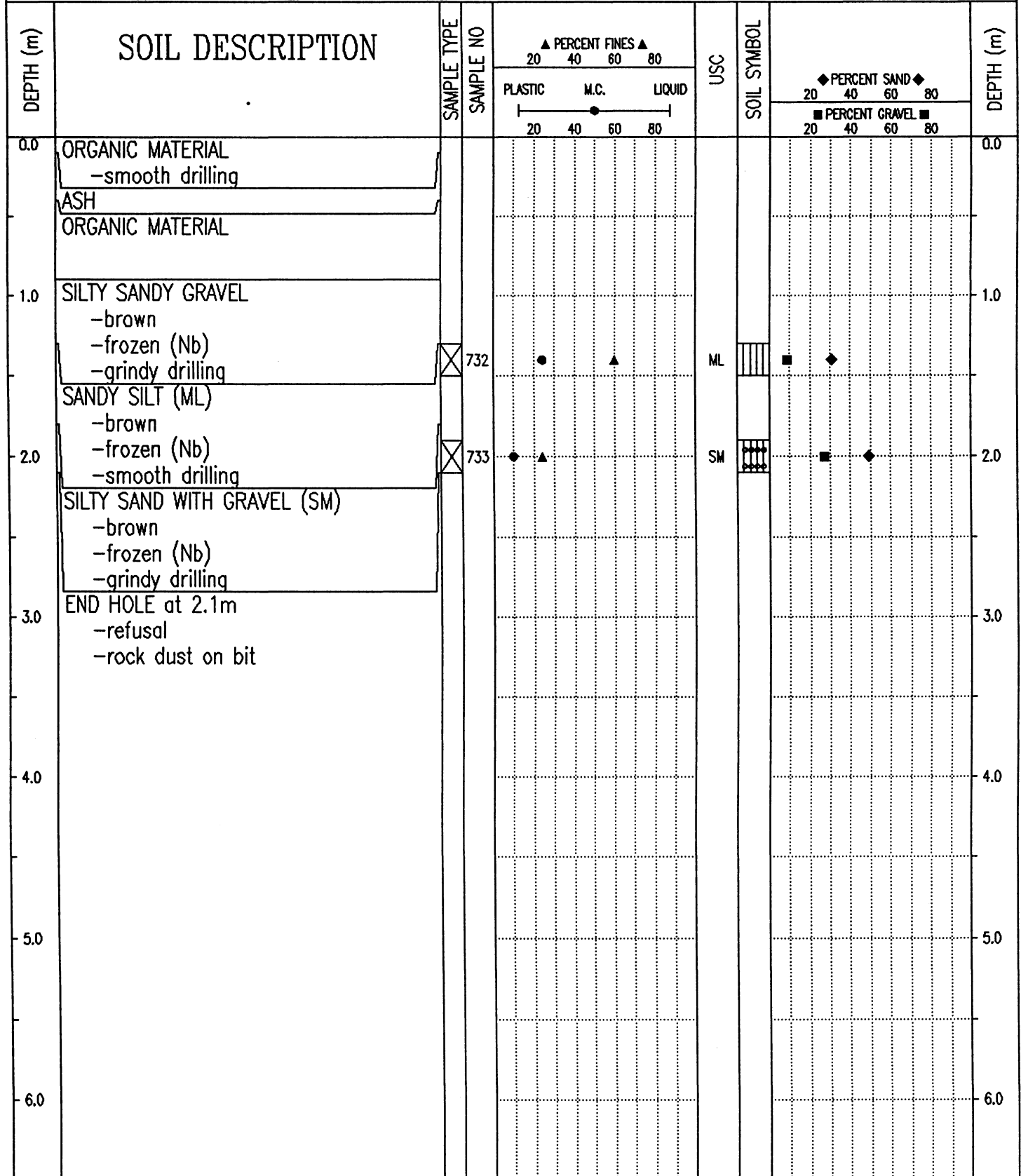
COMPLETION DEPTH: 2.7 m

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) |

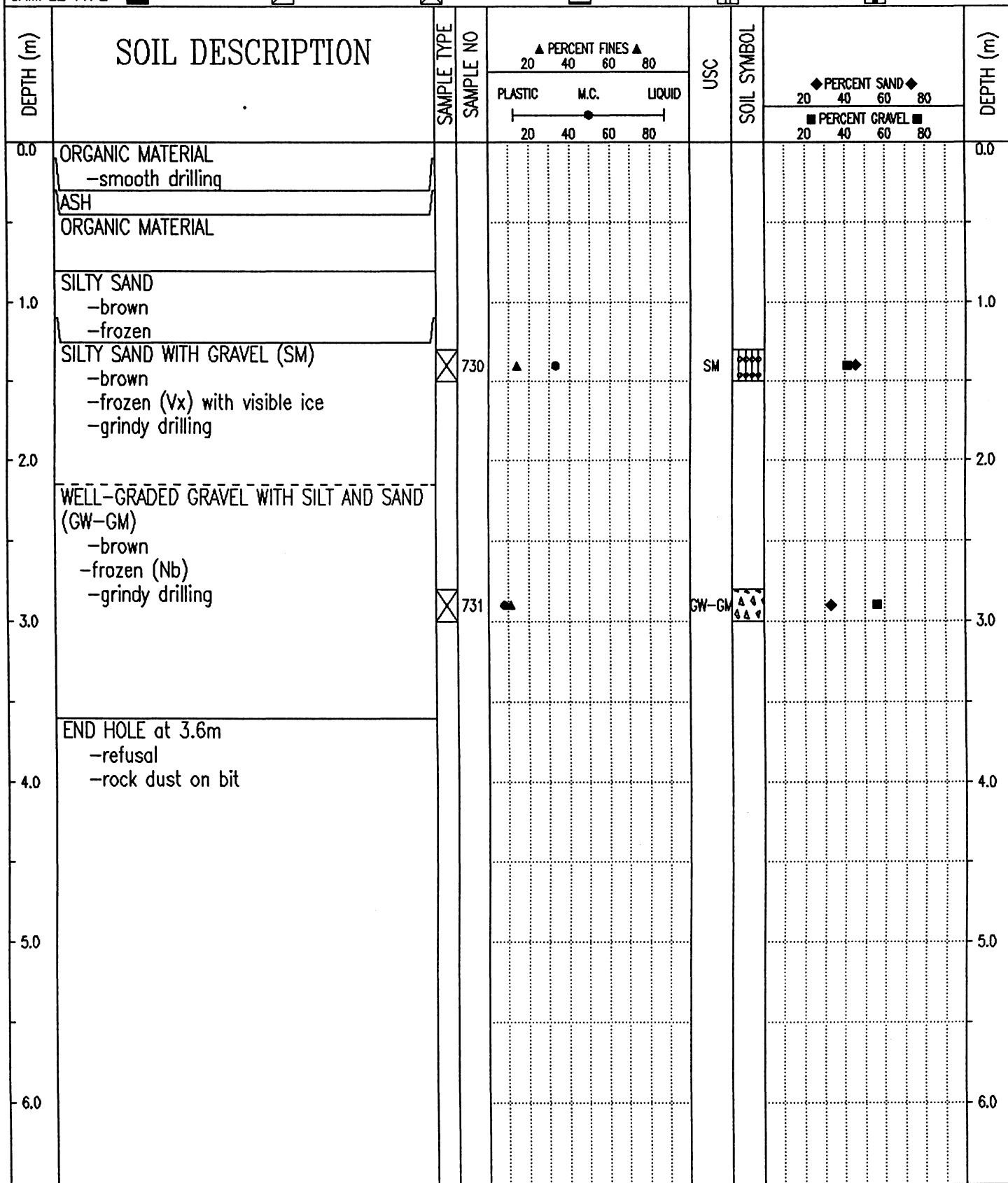
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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| LOGGED BY: CC | COMPLETION DEPTH: 2.1 m |
| REVIEWED BY: | COMPLETE: 95/08/01 |
| Fig. No: | Page 1 of 1 |

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



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Fig. No:

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

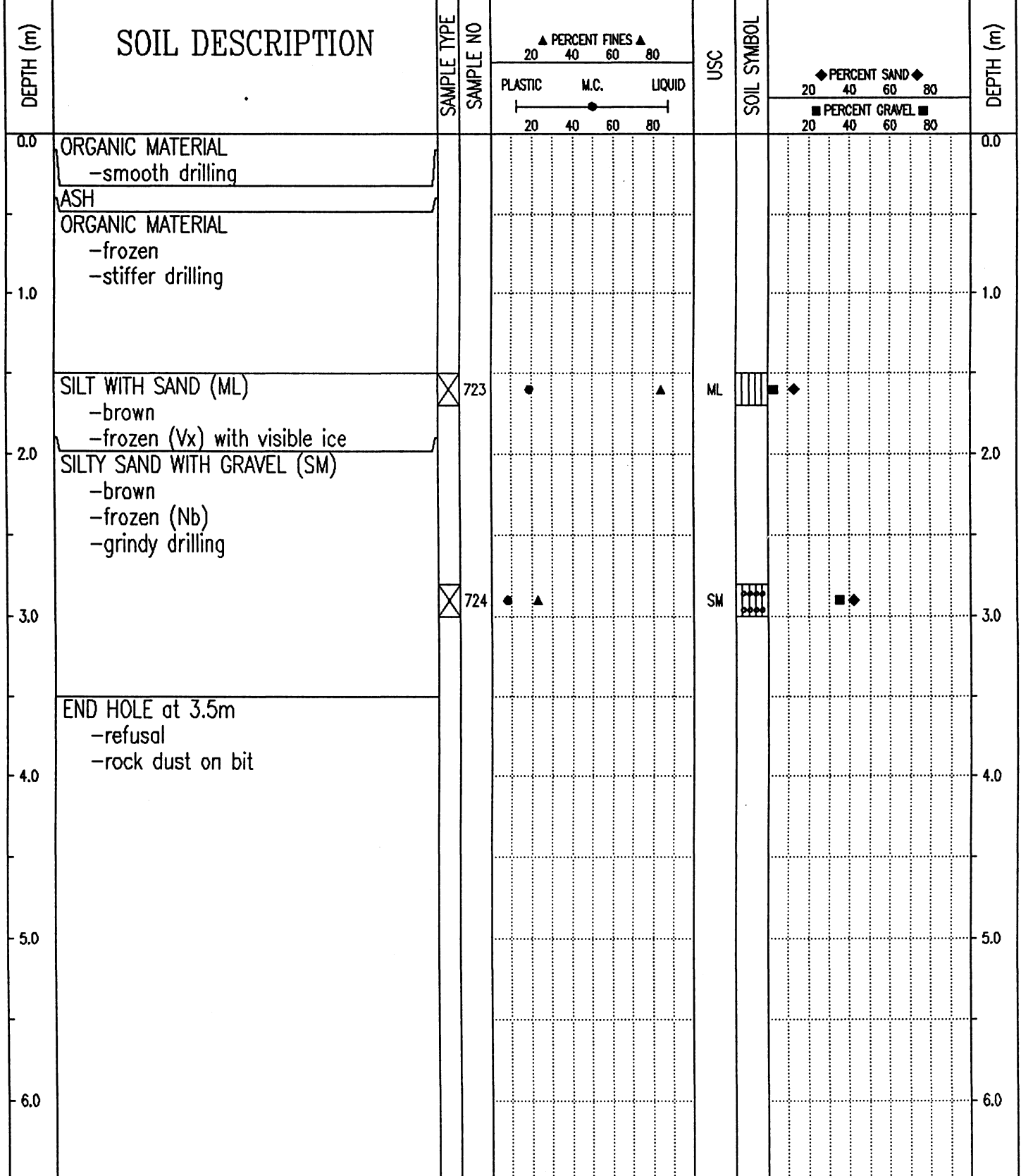
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | PERCENT GRAVEL ■ | | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----|-----------|
| | | | | 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 | |

Government of Yukon
Transportation Engineering

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Fig. No:

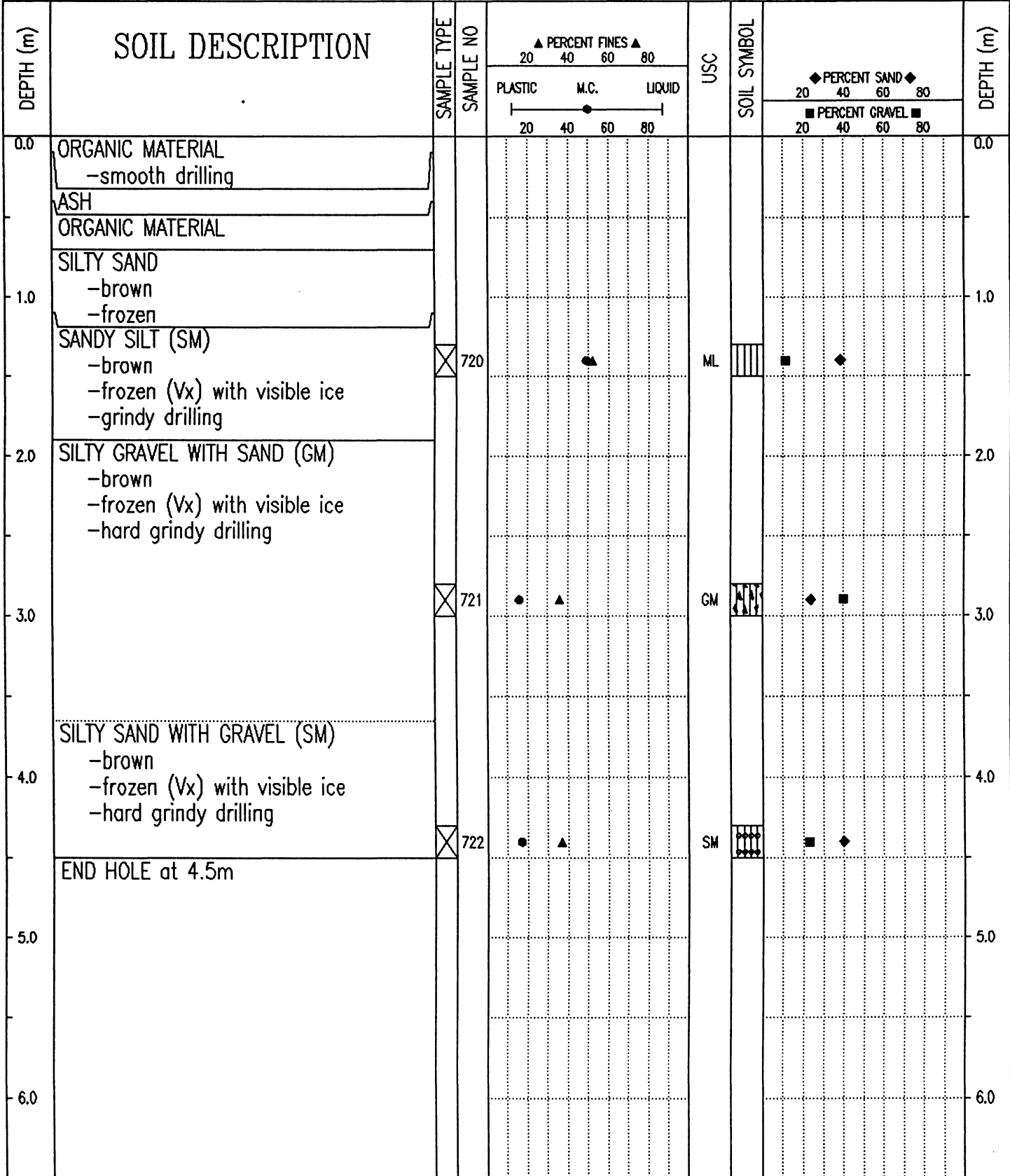
COMPLETION DEPTH: 3.9 m
COMPLETE: 95/08/01
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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | TEST HOLE NO: 372-367 |
| ENGINEERING-CAPITAL | SEGMENT 12B | Project No: 092-202101-0328 |
| Drill: B40L 150mm SOLID STEM AUGER | LOCATION: 1792+275 | 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.5 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

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

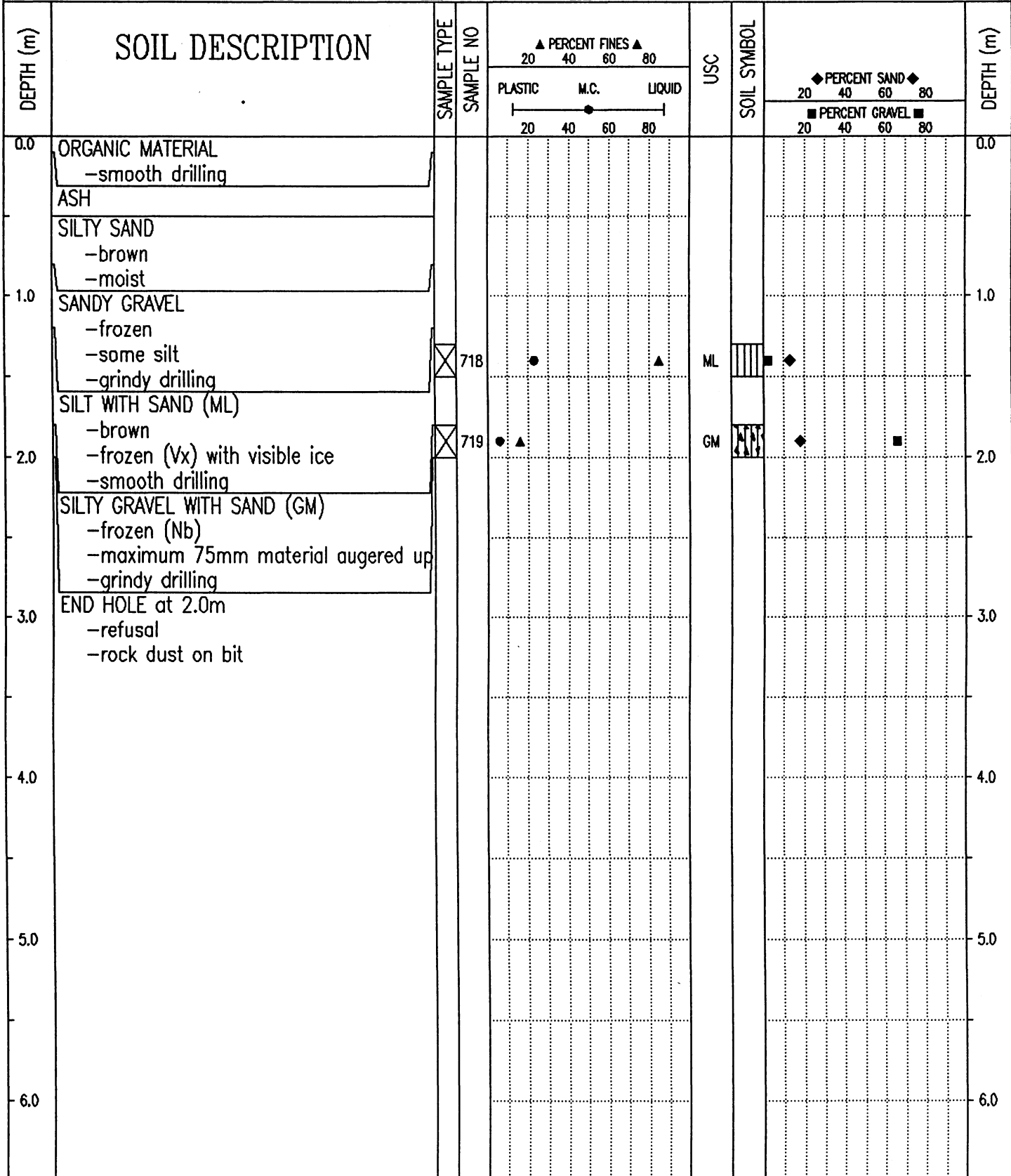


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| SUBSURFACE EXPLORATION AND TEST REPORT | | SHAKWAK PROJECT | TEST HOLE NO: 372-368 |
| ENGINEERING-CAPITAL | | SEGMENT 12B | Project No: 092-202101-0328 |
| Drill: B40L 150mm SOLID STEM AUGER | | LOCATION: 1792+275 o/s 20m Lt. | ELEVATION: 0.00 (m)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

| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|------------------|--|-----|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | PERCENT GRAVEL ■ | | | |
| 0.0 | ORGANIC MATERIAL -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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.4 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

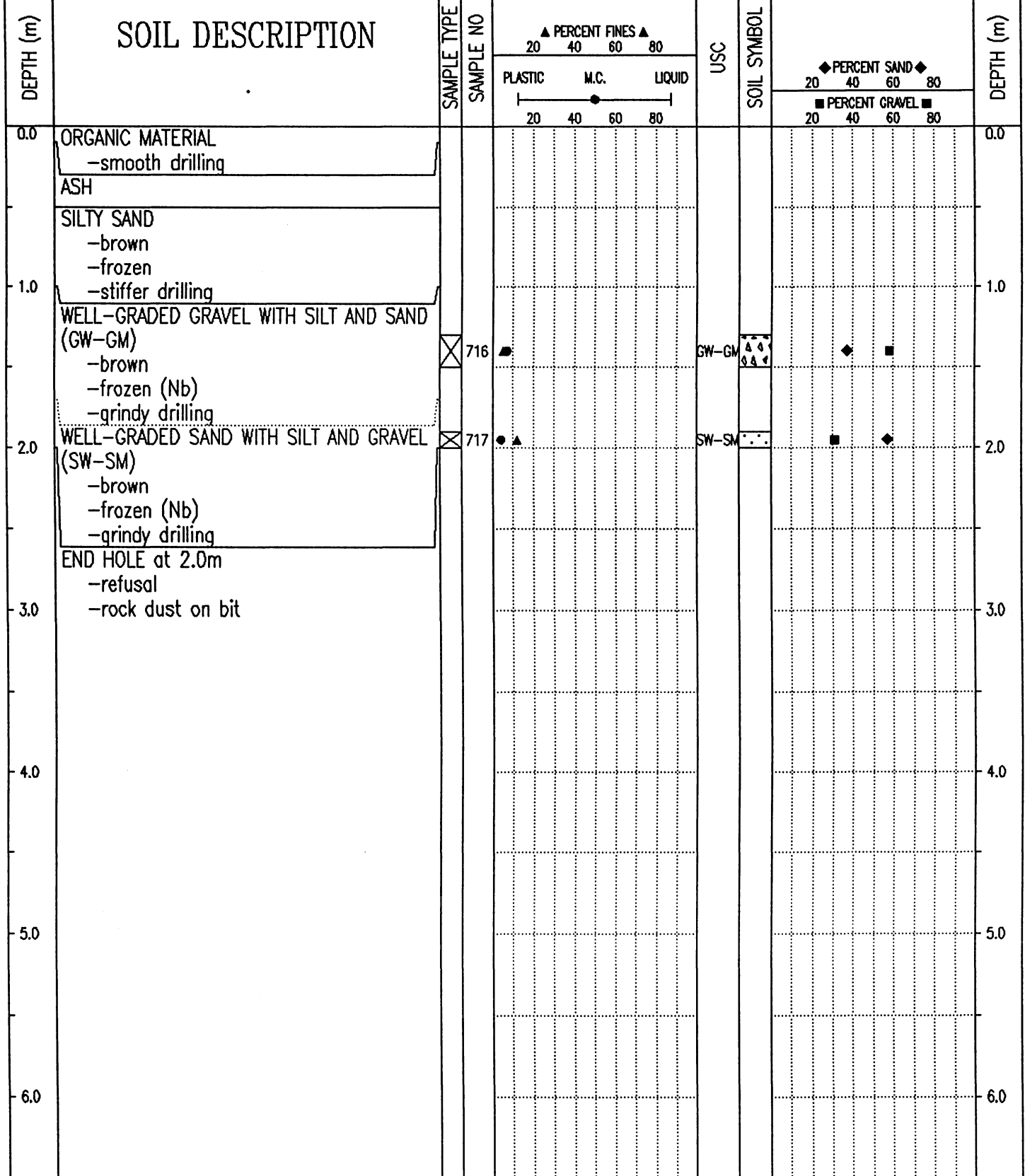
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| SUBSURFACE EXPLORATION AND TEST REPORT | | SHAKWAK PROJECT | TEST HOLE NO: 372-365 |
| ENGINEERING-CAPITAL | | SEGMENT 12B | Project No: 092-202101-0328 |
| Drill: B40L 150mm SOLID STEM AUGER | | LOCATION: 1792+375 | ELEVATION: 0.00 (m) |
| SAMPLE 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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| 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



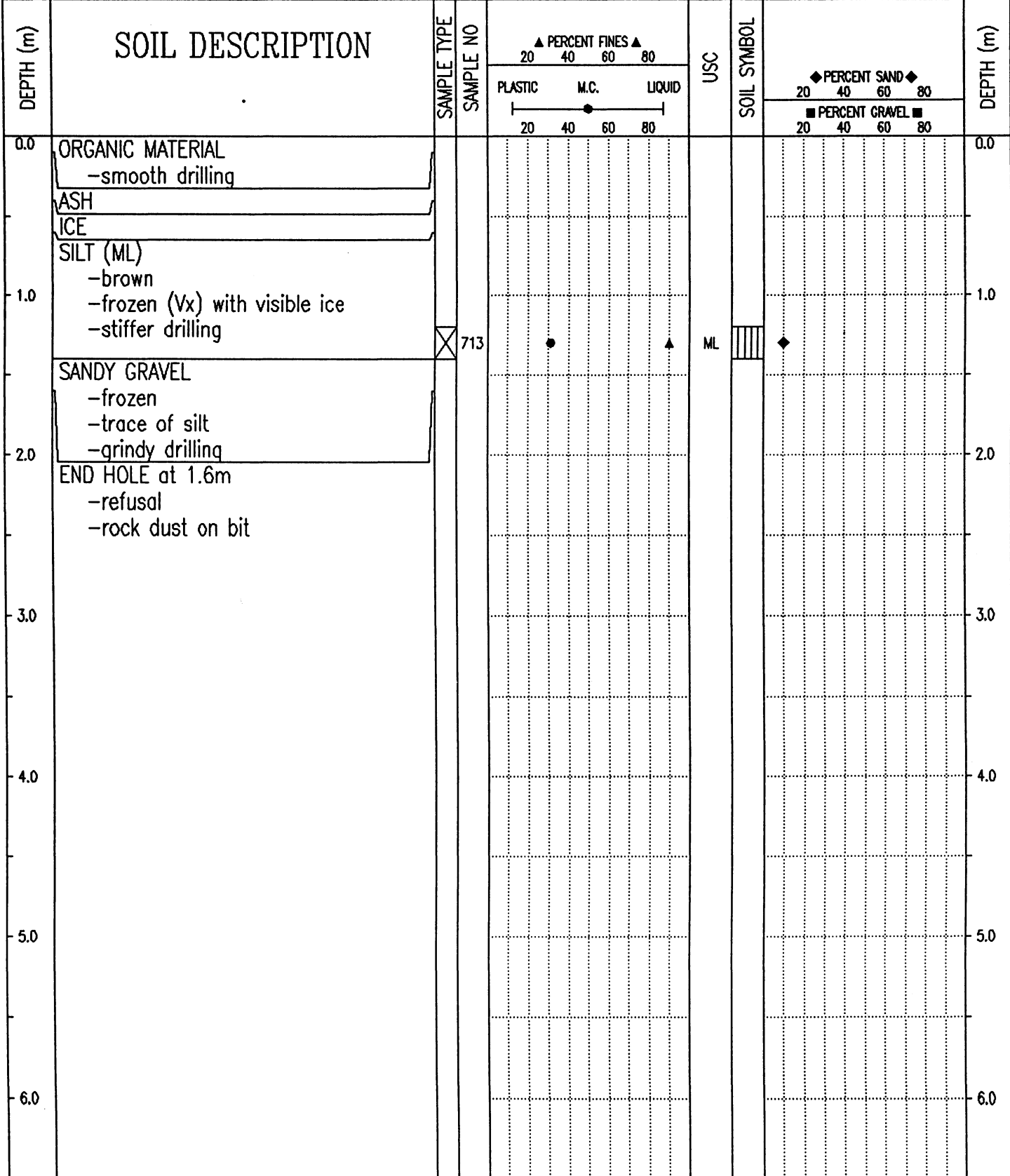
| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

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) |
|-----------|---|-------------|-----------|-----------------|----|----|-----|-------------|----------------|----|----|-----------|
| | | | | 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 |

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| 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 RETURN S.P.T. AUGER BULK TUBE CORE



| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 1.6 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

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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 | | 714 | ● | ▲ | | GM | ◆ | ■ | | | 1.0 |
| 2.0 | SILTY GRAVEL WITH SAND (GM) -brown -frozen (Nb) -grindy drilling -sample #715 spilled | | 715 | ● | | | | | | | | 2.0 |
| | END HOLE at 2.0m -refusal -rock dust on bit | | | | | | | | | | | |
| 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: 2.0 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

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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) |
|-----------|--|-------------------------------------|-----------|-----------------|----|----|-------|-------------|----------------|----|----|-----------|
| | | | | 20 | 40 | 60 | | | 80 | 20 | 40 | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 1.6 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

| | | |
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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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 1.8 m |
| | REVIEWED BY: | COMPLETE: 95/08/01 |
| | Fig. No: | Page 1 of 1 |

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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

REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 1.7 m

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) |

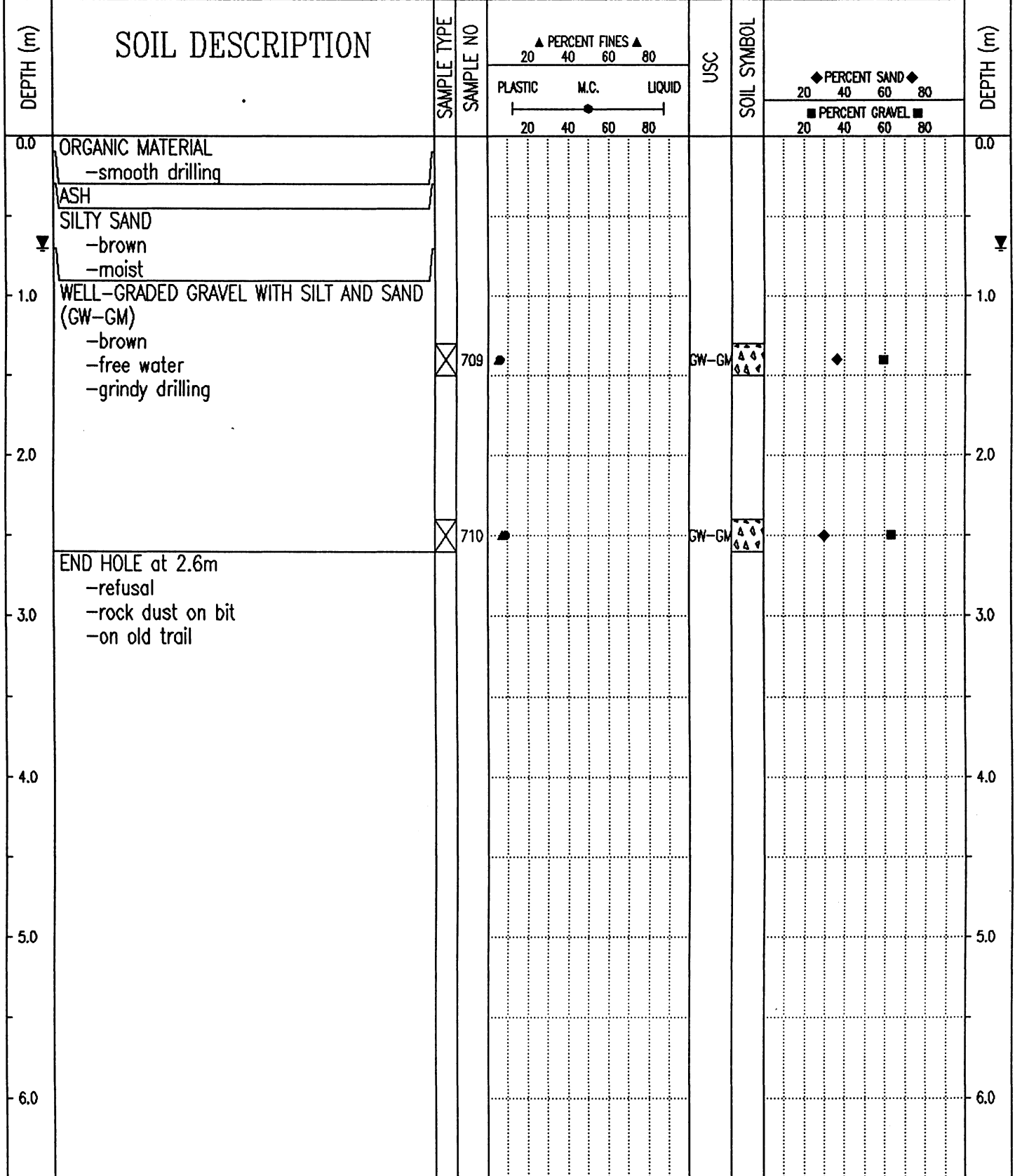
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| 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 -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 |

| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.5 m |
| | REVIEWED BY: | COMPLETE: 95/07/29 |
| | Fig. No: | Page 1 of 1 |

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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



| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.6 m |
| | REVIEWED BY: | COMPLETE: 95/07/29 |
| | Fig. No: | Page 1 of 1 |

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| 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 | | |
| 0.0 | ORGANIC MATERIAL -smooth drilling | | | | | | | | | | | 0.0 |
| | ICE | | | | | | | | | | | |
| 1.0 | SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling | <input checked="" type="checkbox"/> | 704 | 20 | 40 | 60 | SM | ◆ | ■ | ◆ | | 1.0 |
| 2.0 | | | | | | | | | | | | 2.0 |
| 3.0 | | <input checked="" type="checkbox"/> | 705 | 20 | 40 | 60 | SM | ◆ | ■ | ◆ | | 3.0 |
| 4.0 | END HOLE at 3.1m -refusal -rock dust on bit -surface water in area | | | | | | | | | | | 4.0 |
| 5.0 | | | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | | 6.0 |

Government of Yukon
Transportation Engineering

LOGGED BY: CC

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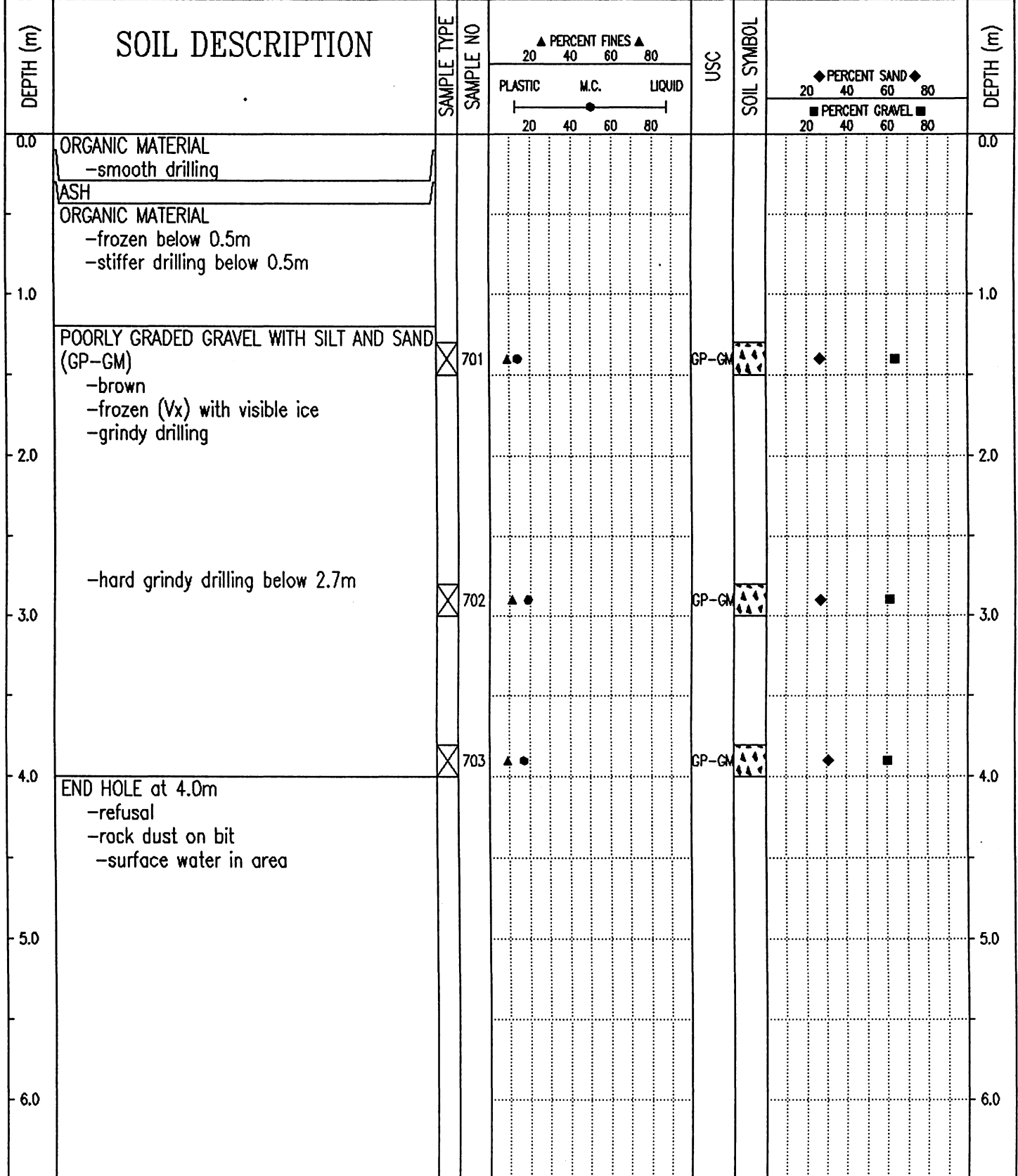
Fig. No:

COMPLETION DEPTH: 3.1 m

COMPLETE: 95/07/29

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



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Transportation Engineering

LOGGED BY: CC
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Fig. No:

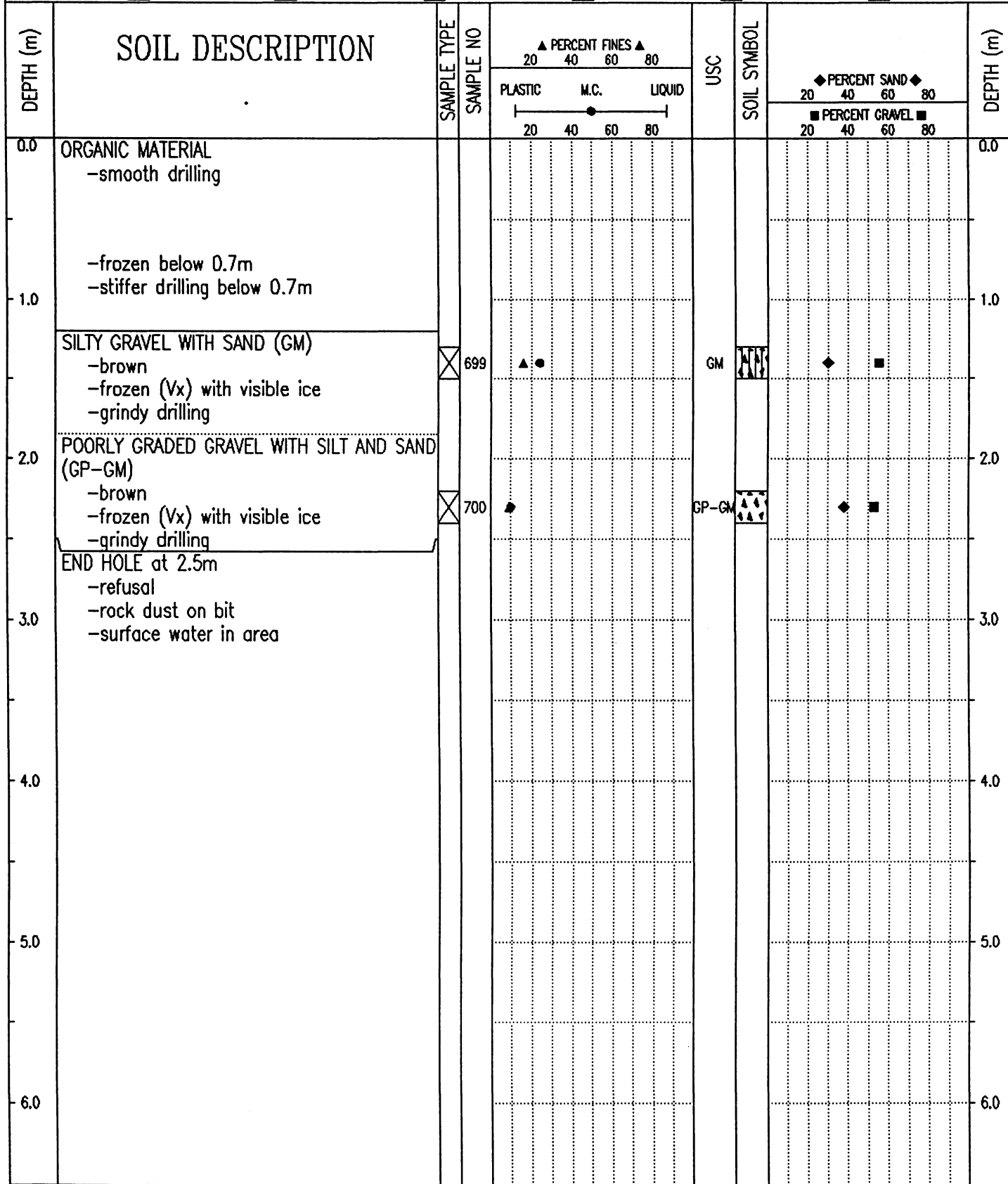
COMPLETION DEPTH: 4.0 m
COMPLETE: 95/07/29

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



Government of Yukon
Transportation Engineering

LOGGED BY: CC COMPLETION DEPTH: 2.5 m
 REVIEWED BY: COMPLETE: 95/07/29
 Fig. No: Page 1 of 1

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

| 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 | SILTY SAND (SM) -brown -frozen (Vx) with visible ice -grindy drilling | <input checked="" type="checkbox"/> | 696 | ~45 | ~55 | ~75 | SM | | ~65 | ~5 | ~65 | 1.0 |
| 2.0 | SANDY SILT (ML) -brown -frozen (Nb) -high organic content -smooth hard drilling | <input checked="" type="checkbox"/> | 697 | ~45 | ~55 | ~75 | ML | | ~65 | ~5 | ~65 | 2.0 |
| 3.0 | | | | | | | | | | | | 3.0 |
| 4.0 | SANDY SILT (ML) -gray -frozen (Nb) END HOLE at 4.3m | <input checked="" type="checkbox"/> | 698 | ~45 | ~55 | ~75 | ML | | ~65 | ~5 | ~65 | 4.0 |
| 5.0 | | | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | | 6.0 |

Government of Yukon
Transportation Engineering

LOGGED BY: CC

REVIEWED BY:

Fig. No:

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 | PERCENT SAND ◆ | | DEPTH (m) |
| | | | | PLASTIC | M.C. | | | LIQUID | PERCENT GRAVEL ■ | |
| 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 |
| Government of Yukon Transportation Engineering | | | | LOGGED BY: B.S. | | COMPLETION DEPTH: 6.5 m | | | | |
| | | | | REVIEWED BY: | | COMPLETE: 98/11/30 | | | | |
| | | | | Fig. No: | | Page 1 of 1 | | | | |

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| 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 |

| | | |
|---|---------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.0 m |
| | REVIEWED BY: | COMPLETE: 95/07/29 |
| | 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 | 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 | | | 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 | <input checked="" type="checkbox"/> | 690 | ● | ▲ | | GM | | ◆ | ■ | | | 1.0 |
| 2.0 | | | | | | | | | | | | | 2.0 |
| 3.0 | SILTY SAND WITH GRAVEL (SM) -brown -frozen (Vx) with visible ice -grindy drilling | <input checked="" type="checkbox"/> | 691 | ● | ▲ | | SM | | ■ | ◆ | | | 3.0 |
| 4.0 | END HOLE at 3.7m -refusal -rock dust on bit | | | | | | | | | | | | 4.0 |
| 5.0 | | | | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | | | 6.0 |

Government of Yukon
Transportation Engineering

LOGGED BY: CC
REVIEWED BY:
Fig. No:

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

| | | |
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| 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 | |

Government of Yukon
Transportation Engineering

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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 | <input checked="" type="checkbox"/> | 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 | |

Government of Yukon
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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 ◆ | | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
| | | | | 20 | 40 | 60 | | | 80 | 20 | | |
| 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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Transportation Engineering

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Fig. No:

COMPLETION DEPTH: 2.2 m

COMPLETE: 95/07/28

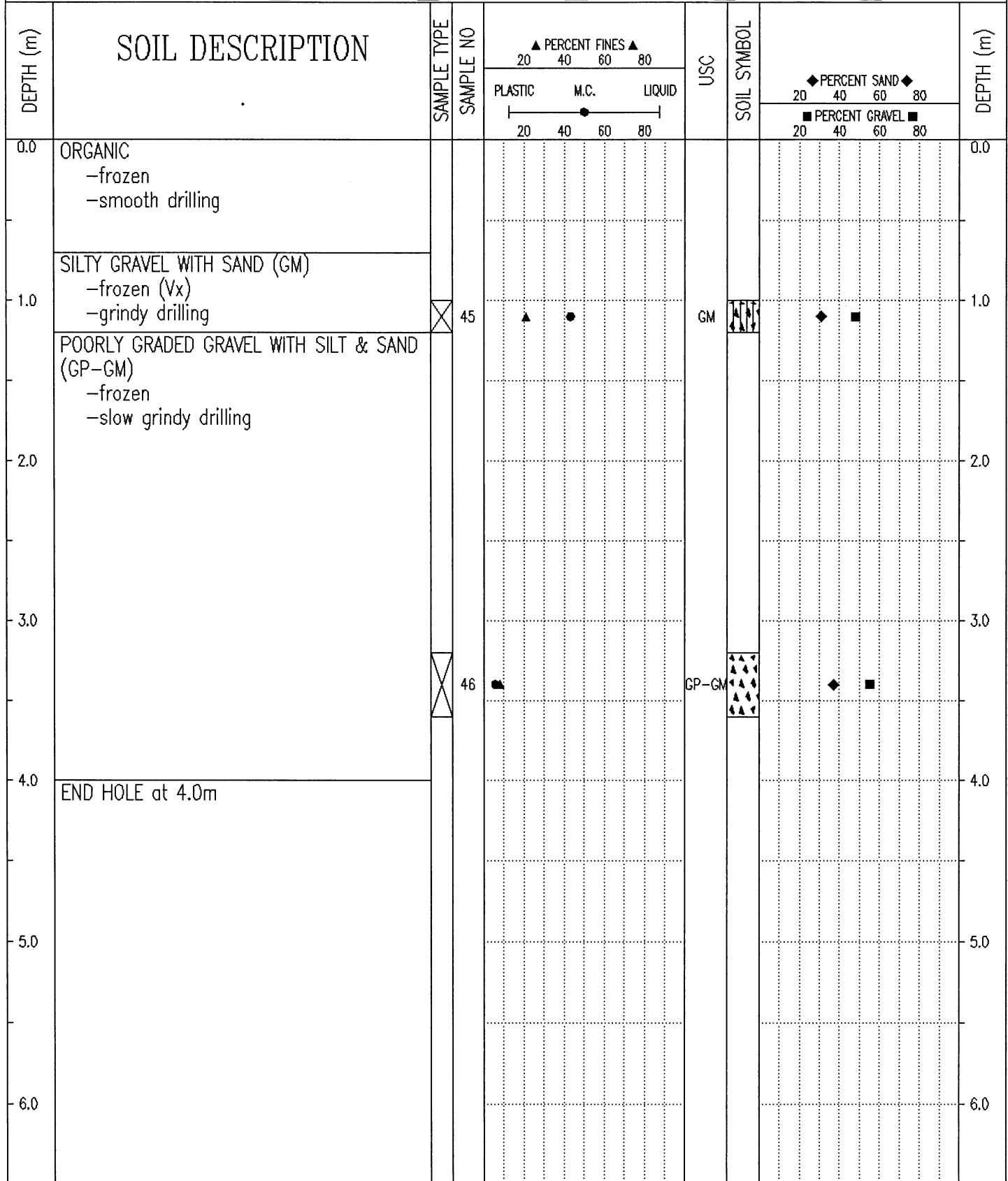
Page 1 of 1

| | | |
|---|--|---|
| 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 | | 20 | 40 | 60 | 80 | | | | | | | |
| 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 |

| | | |
|---|-----------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: B.S. | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 98/11/30 |
| | Fig. No: | Page 1 of 1 |

| | | |
|--|---------------------------|-----------------------------|
| 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 | | |



| | | |
|---|-----------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: B.S. | COMPLETION DEPTH: 4.0 m |
| | REVIEWED BY: | COMPLETE: 98/11/30 |
| | Fig. No: | Page 1 of 1 |

| 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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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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| 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 ■ | | | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: B.S. | COMPLETION DEPTH: 4.5 m |
| | REVIEWED BY: | COMPLETE: 98/11/29 |
| | Fig. No: | Page 1 of 1 |

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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 | |
| | END HOLE at 3.5m -refusal -lots of rock dust on bit | | | | | | | | |
| 4.0 | | | | | | | | 4.0 | |
| 5.0 | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | 6.0 | |

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|---|-----------------|-------------------------|
| Government of Yukon Transportation Engineering | LOGGED BY: B.S. | COMPLETION DEPTH: 3.5 m |
| | REVIEWED BY: | COMPLETE: 98/11/29 |
| | Fig. No: | Page 1 of 1 |

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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 | | 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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Transportation Engineering

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| LOGGED BY: B.S. | COMPLETION DEPTH: 3.7 m |
| REVIEWED BY: | COMPLETE: 98/11/29 |
| Fig. No: | Page 1 of 1 |

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|--|--------------------|-----------------------------|
| 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

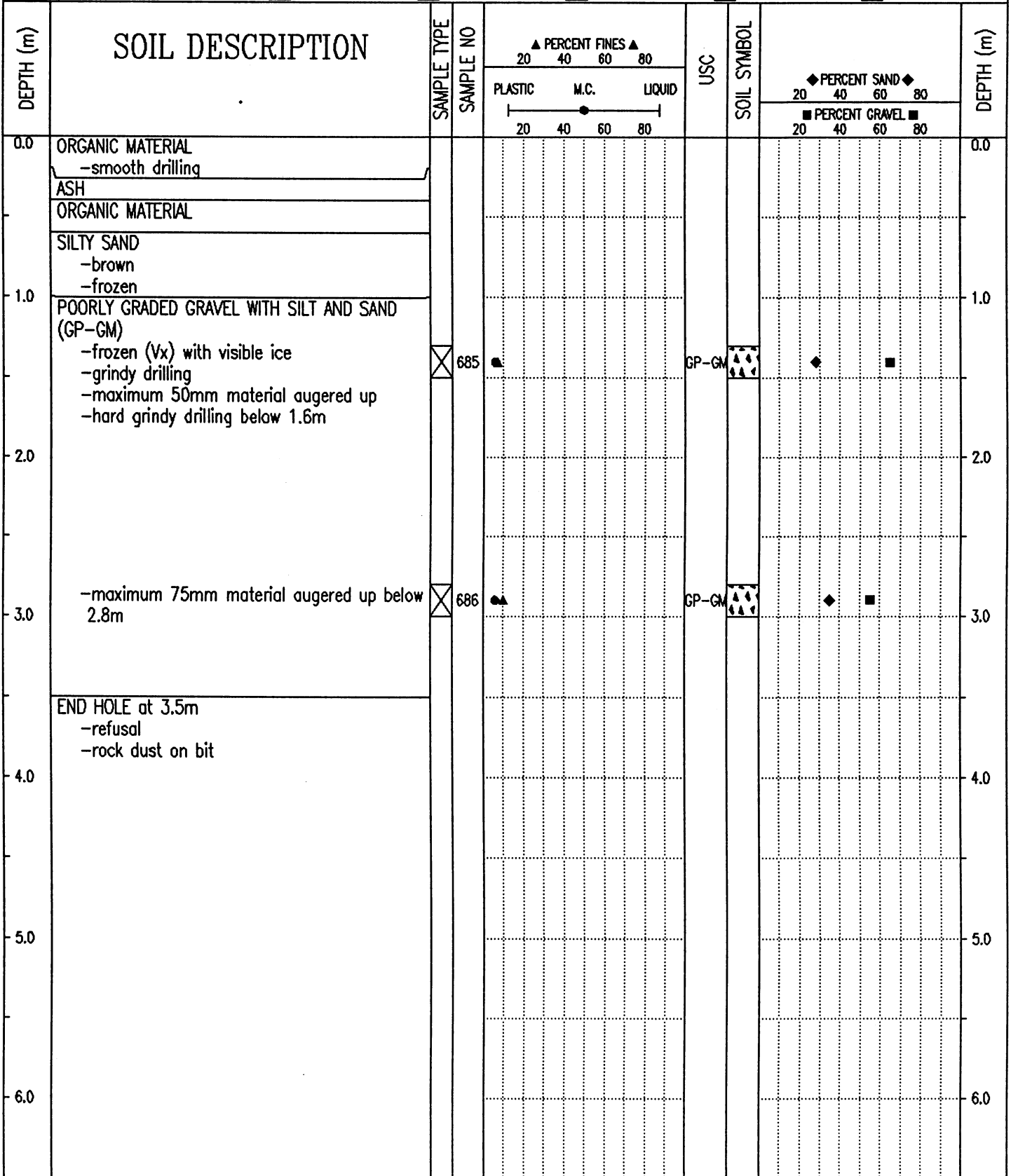
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-------|-------------|------------------|--|-----|-----------|
| | | | | 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 | |

Government of Yukon
Transportation Engineering

LOGGED BY: CC
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Fig. No:

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

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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.5 m |
| | REVIEWED BY: | COMPLETE: 95/07/28 |
| | Fig. No: | Page 1 of 1 |

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 | | | PERCENT GRAVEL ■ | | | |
| 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
 Fig. No: Page 1 of 1

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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 | |

Government of Yukon
Transportation Engineering

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REVIEWED BY:

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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.4 m |
| | REVIEWED BY: | COMPLETE: 95/07/28 |
| | Fig. No: | Page 1 of 1 |

| | | | |
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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 | 60 | 80 | |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 2.0 m |
| | REVIEWED BY: | COMPLETE: 95/07/28 |
| | 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 | 60 | |
| 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 |

Government of Yukon
Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 1.8 m |
| REVIEWED BY: | COMPLETE: 95/07/28 |
| Fig. No: | Page 1 of 1 |

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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 | | | | | | | | | | | | | |

Government of Yukon
Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 2.0 m |
| REVIEWED BY: | COMPLETE: 95/07/28 |
| Fig. No: | Page 1 of 1 |

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|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | TEST HOLE NO: 371-338 |
| ENGINEERING-CAPITAL | SEGMENT 12B | Project No: 092-202101-0328 |
| Drill: B40L 150mm SOLID STEM AUGER | LOCATION: 1793+800 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 ◆ | | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
| | | | | 20 | 40 | 60 | | | 80 | 20 | | |
| 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 |

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Transportation Engineering

LOGGED BY: CC
REVIEWED BY:
Fig. No:

COMPLETION DEPTH: 3.2 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 | | | PERCENT GRAVEL ■ | | | |
| 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 |

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|--|--------------------|-----------------------------|
| 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 | |

Government of Yukon
Transportation Engineering

LOGGED BY: CC
REVIEWED BY:
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)

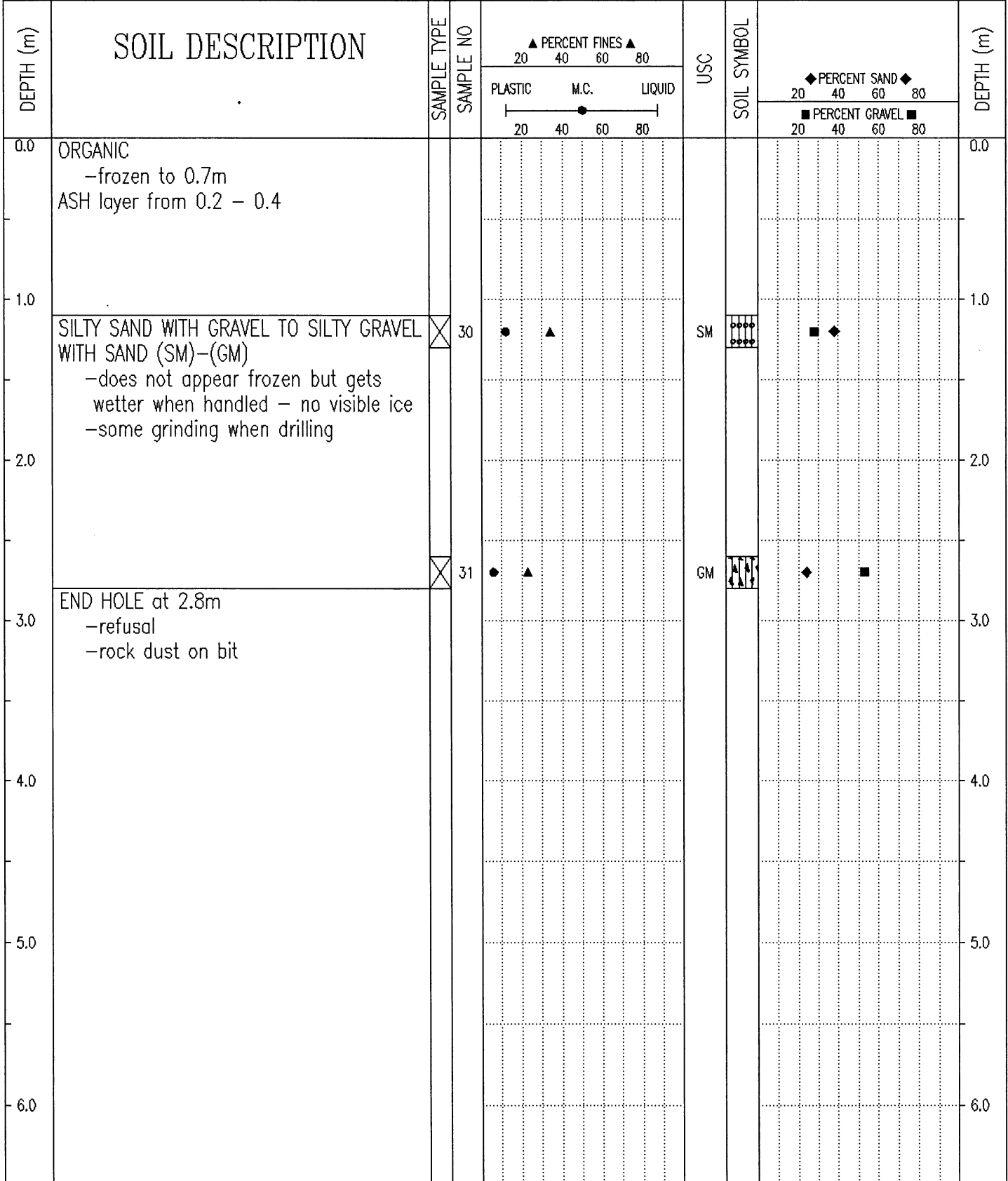
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| 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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Transportation Engineering

LOGGED BY: CC COMPLETION DEPTH: 2.0 m
 REVIEWED BY: COMPLETE: 95/07/28
 Fig. No: Page 1 of 1

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| 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 |



Government of Yukon
Transportation Engineering

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| LOGGED BY: B.S. | COMPLETION DEPTH: 2.8 m |
| REVIEWED BY: | COMPLETE: 98/11/27 |
| Fig. No: | Page 1 of 1 |

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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 | <input checked="" type="checkbox"/> | 34 | | | | | | | | | |
| 3.0 | | | | | | | | | | | | 3.0 |
| 4.0 | | | | | | | | | | | | 4.0 |
| 5.0 | | | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | | 6.0 |

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| Government of Yukon Transportation Engineering | LOGGED BY: B.S. | COMPLETION DEPTH: 2.2 m |
| | REVIEWED BY: | COMPLETE: 98/11/27 |
| | Fig. No: | Page 1 of 1 |

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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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| Government of Yukon Transportation Engineering | LOGGED BY: B.S. | COMPLETION DEPTH: 2.8 m |
| | REVIEWED BY: | COMPLETE: 98/11/27 |
| | Fig. No: | Page 1 of 1 |

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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 ◆ | | PERCENT GRAVEL ■ | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----------|
| | | | | 20 | 40 | 60 | | | 80 | 20 | | |
| 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 |

Government of Yukon
Transportation Engineering

LOGGED BY: CC
REVIEWED BY:
Fig. No:

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

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|--|--------------------|-----------------------------|
| 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 |
|-------------|---------------------------------|--|---|-------------------------------|-------------------------------|-------------------------------|

| 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 | |

Government of Yukon
Transportation Engineering

LOGGED BY: CC

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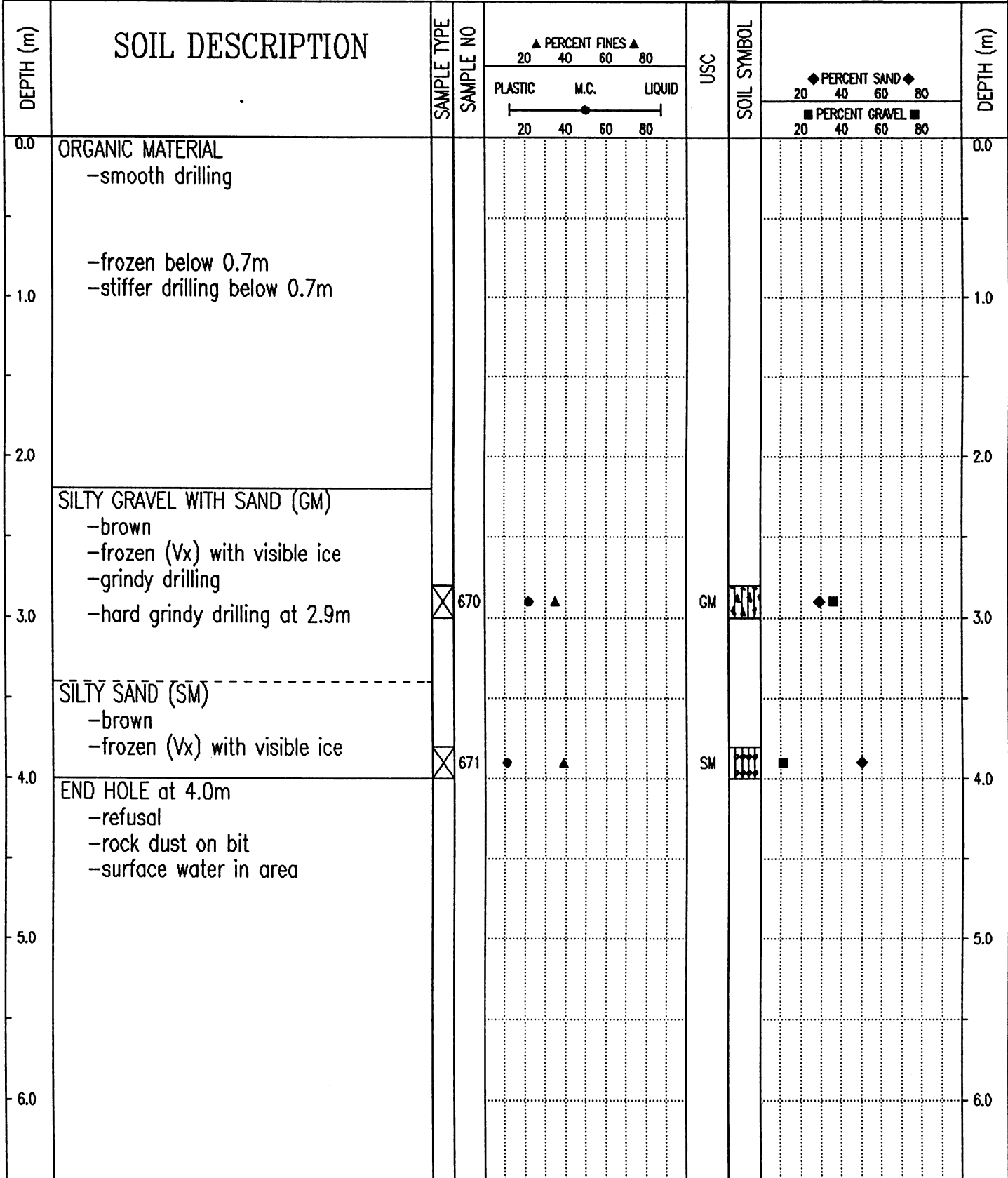
Fig. No:

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



Government of Yukon
Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 4.0 m |
| REVIEWED BY: | COMPLETE: 95/07/28 |
| Fig. No: | Page 1 of 1 |

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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 | | |

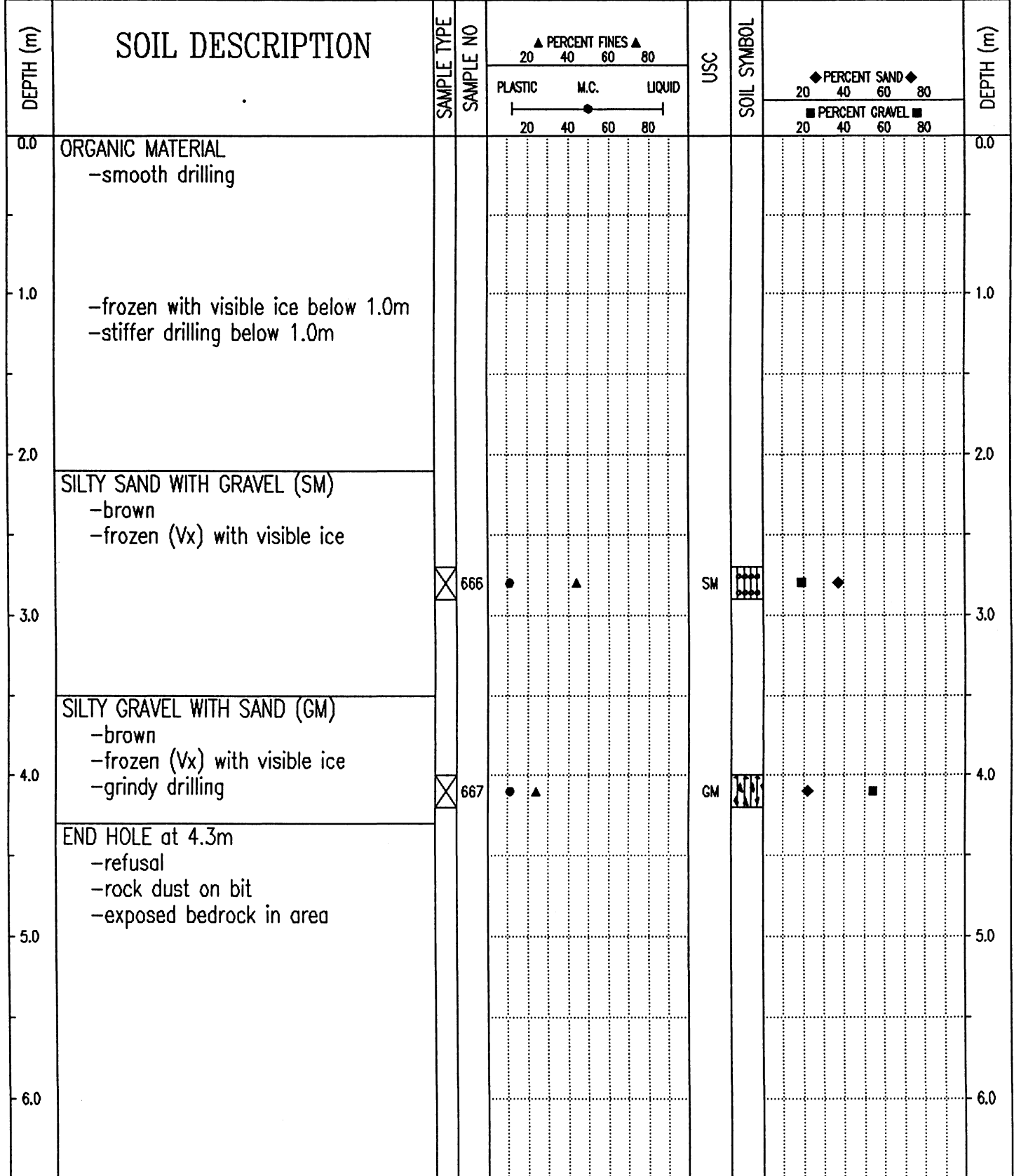
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | | DEPTH (m) |
|-----------|--|-------------------------------------|-----------|-----------------|------|--------|-----|-------------|------------------|--|-----|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | PERCENT GRAVEL ■ | | | |
| 0.0 | ORGANIC MATERIAL -smooth drilling | | | | | | | | | | 0.0 | |
| | ASH | | | | | | | | | | | |
| | ORGANIC MATERIAL | | | | | | | | | | | |
| 1.0 | -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 | |

Government of Yukon
Transportation Engineering

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|---------------|-------------------------|
| LOGGED BY: CC | COMPLETION DEPTH: 2.5 m |
| REVIEWED BY: | COMPLETE: 95/07/28 |
| Fig. No: | Page 1 of 1 |

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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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Fig. No:

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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REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 2.7 m

COMPLETE: 95/07/27

| 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 type="checkbox"/> RETURN | | <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 | | | | | | |

SUBSURFACE EXPLORATION AND TEST REPORT SHAKWAK PROJECT TEST HOLE NO: 371-326

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

Drill: B40L 150mm SOLID STEM AUGER LOCATION: 1794+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) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|------------------|-----|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | 20 | 40 | 60 | 80 | |
| 0.0 | ORGANIC MATERIAL -smooth drilling ASH ORGANIC MATERIAL | | | | | | | | | | | 0.0 | |
| 1.0 | SILTY SAND WITH GRAVEL (SM) -brown -moist | | 662 | ● | ▲ | | SM | ▨ | ◆ | ■ | | 1.0 | |
| 2.0 | SILTY SAND WITH GRAVEL (SM) -gray -damp -weathered rock -grindy drilling | | 663 | ● | ▲ | | SM | ▨ | ◆ | ■ | | 2.0 | |
| 3.0 | END HOLE at 3.2m -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: 3.2 m

COMPLETE: 95/07/27

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|--|---|--|--|---|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------|
| 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 checked="" type="checkbox"/> RETURN | <input checked="" type="checkbox"/> S.P.T. | <input checked="" type="checkbox"/> AUGER | <input type="checkbox"/> BULK | <input type="checkbox"/> TUBE | <input type="checkbox"/> CORE | | | |
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | ▲ PERCENT FINES ▲ 20 40 60 80 | | USC | SOIL SYMBOL | ◆ PERCENT SAND ◆ 20 40 60 80 | | DEPTH (m) |
| | | | | PLASTIC | M.C. | | | LIQUID | ■ PERCENT GRAVEL ■ 20 40 60 80 | |
| 0.0 | 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 |

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REVIEWED BY:
Fig. No:

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

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|--|----------------------------------|-------------------------------------|--|---|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------|
| 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 |

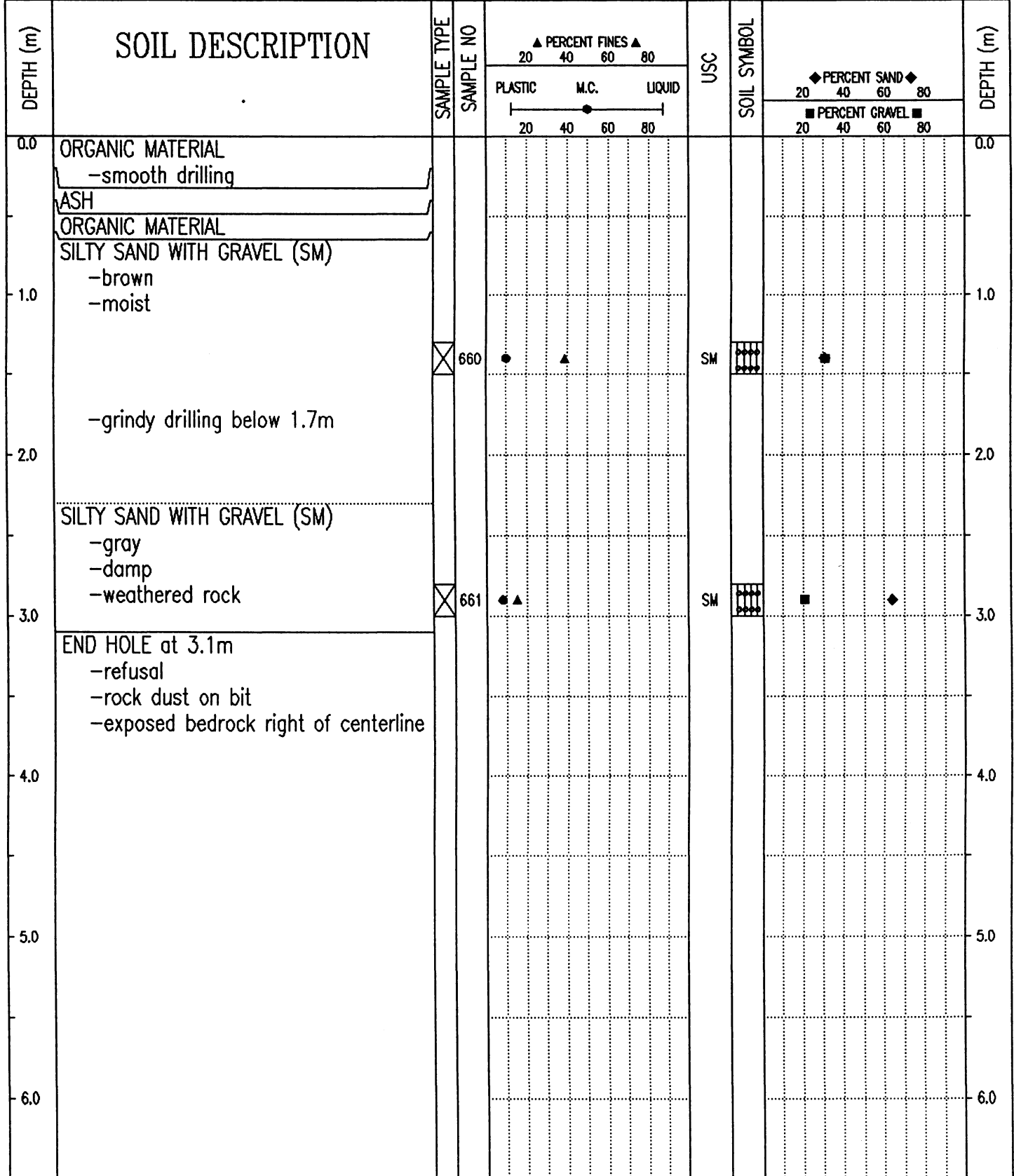
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Transportation Engineering

LOGGED BY: B.S.
REVIEWED BY:
Fig. No:

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

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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: CC | COMPLETION DEPTH: 3.1 m |
| | REVIEWED BY: | COMPLETE: 95/07/27 |
| | 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 | | | PERCENT GRAVEL ■ | | | |
| 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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| 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 | | 658 | 20 | 40 | 60 | 80 | SM | 20 | 40 | 60 | 80 | 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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Transportation Engineering

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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 |
| Fig. No: | Page 1 of 1 |

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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 | 60 | 80 | |
| 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 | | | | ML | | | | | 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)

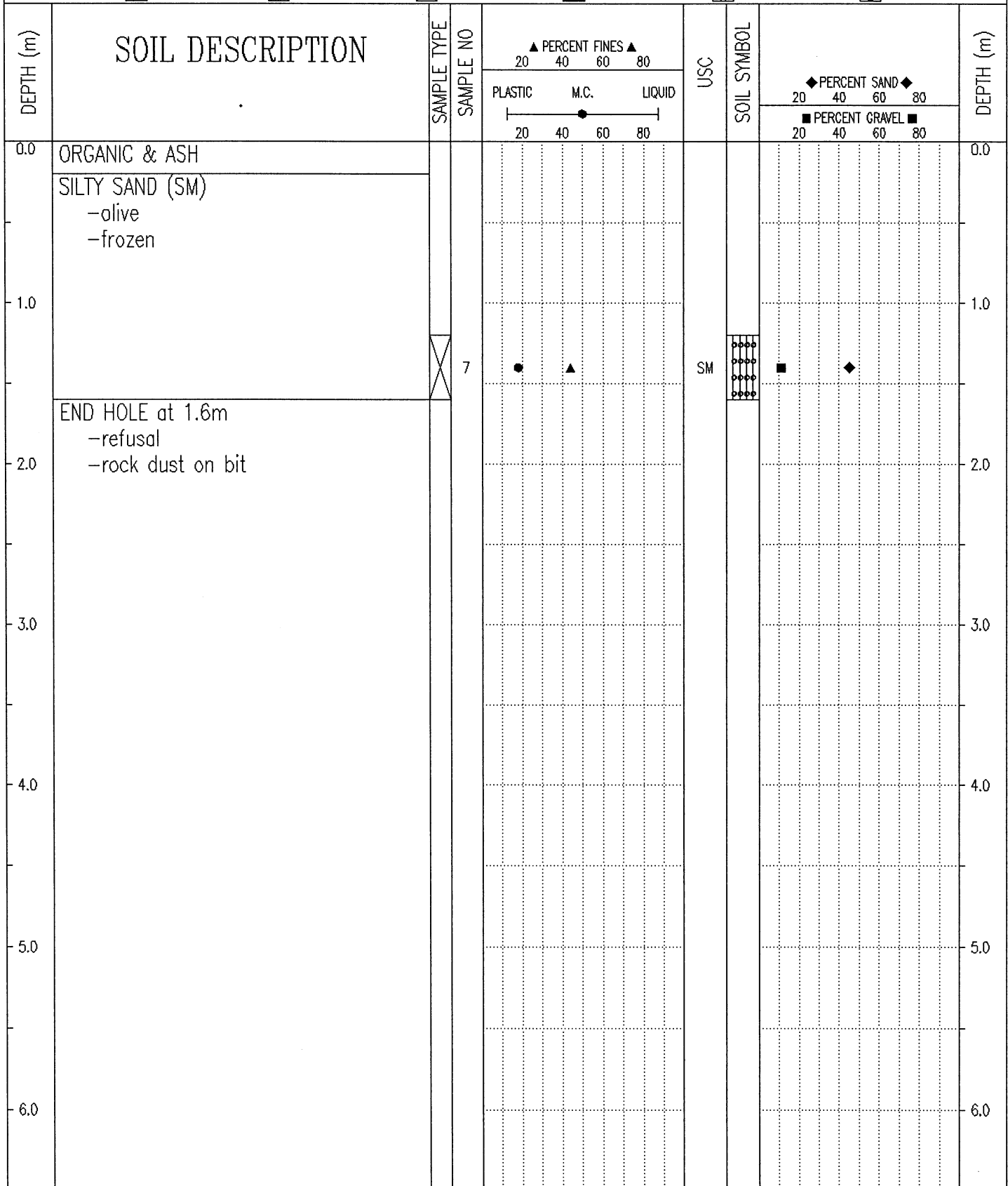
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| 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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Transportation Engineering

LOGGED BY: CC COMPLETION DEPTH: 3.0 m
 REVIEWED BY: COMPLETE: 95/07/27
 Fig. No: Page 1 of 1

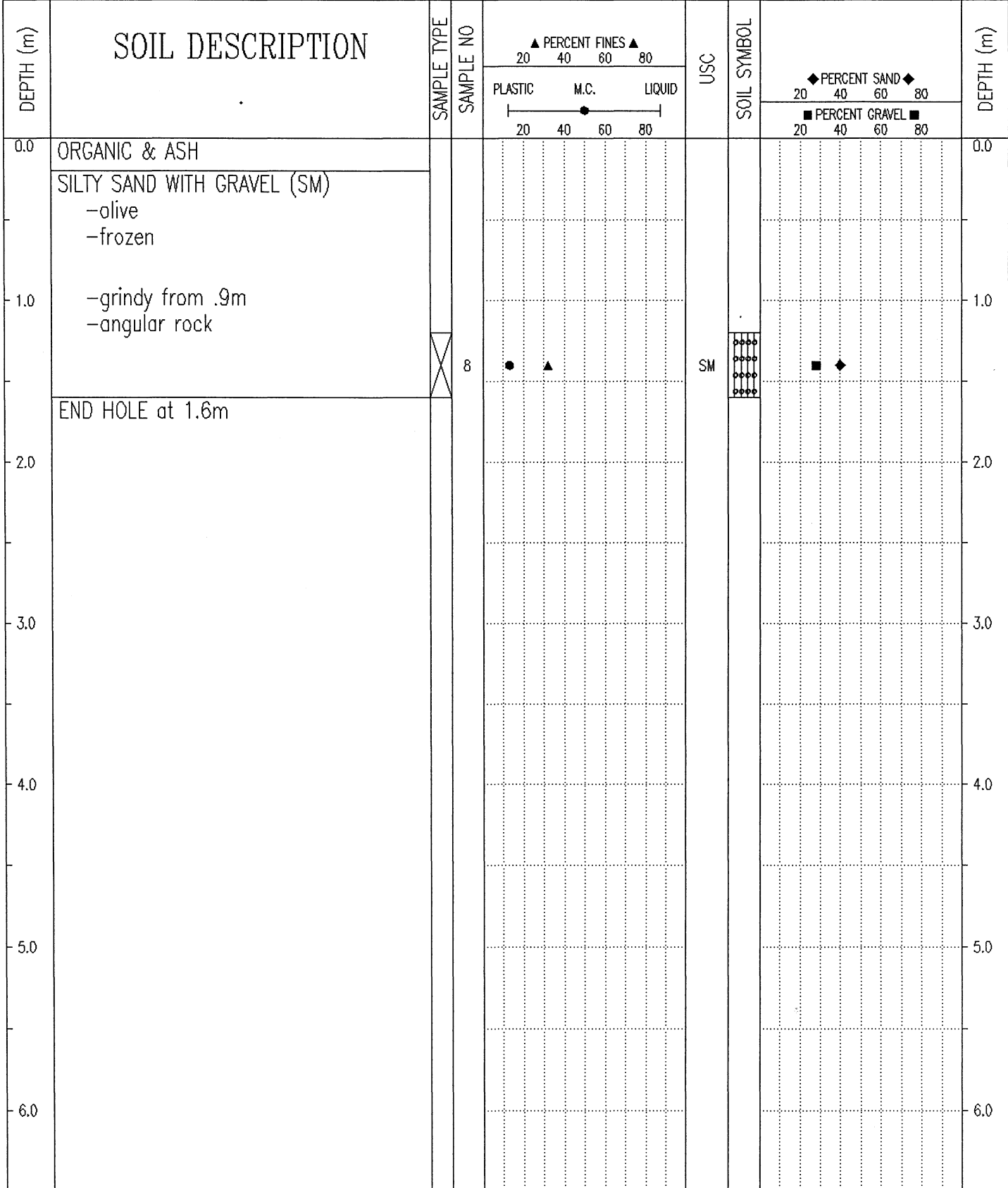
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|--|--|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY PRE-ENGINEERING | TEST PIT NO: 500-258 |
| SHAKWAK PROJECT SEGMENT 12B | KM 1761 - 1799 | Project No: 092-202101-0328 |
| D-4 CAT B40 | LOCATION: 1795+149 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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| Government of Yukon Transportation Engineering | LOGGED BY: G.C. | COMPLETION DEPTH: 1.6 m |
| | REVIEWED BY: | COMPLETE: 98/11/26 |
| | Fig. No: | Page 1 of 1 |

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| 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) |

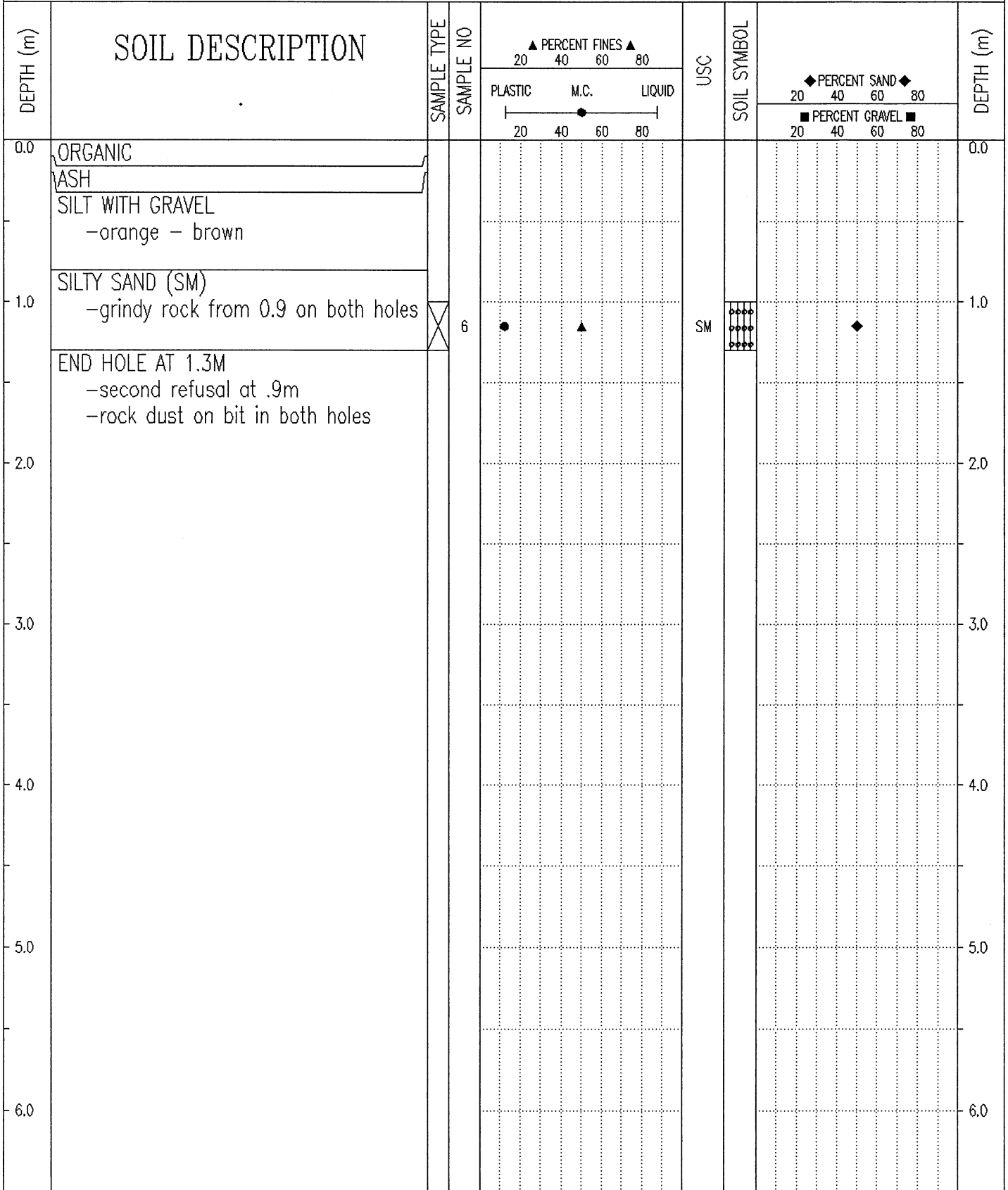
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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Transportation Engineering

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|-----------------|-------------------------|
| LOGGED BY: G.C. | COMPLETION DEPTH: 1.6 m |
| REVIEWED BY: | COMPLETE: 98/11/26 |
| Fig. No: | Page 1 of 1 |

| | | |
|--|--------------------------------|-----------------------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY PRE-ENGINEERING | TEST PIT NO: 500-257 |
| 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 | | |

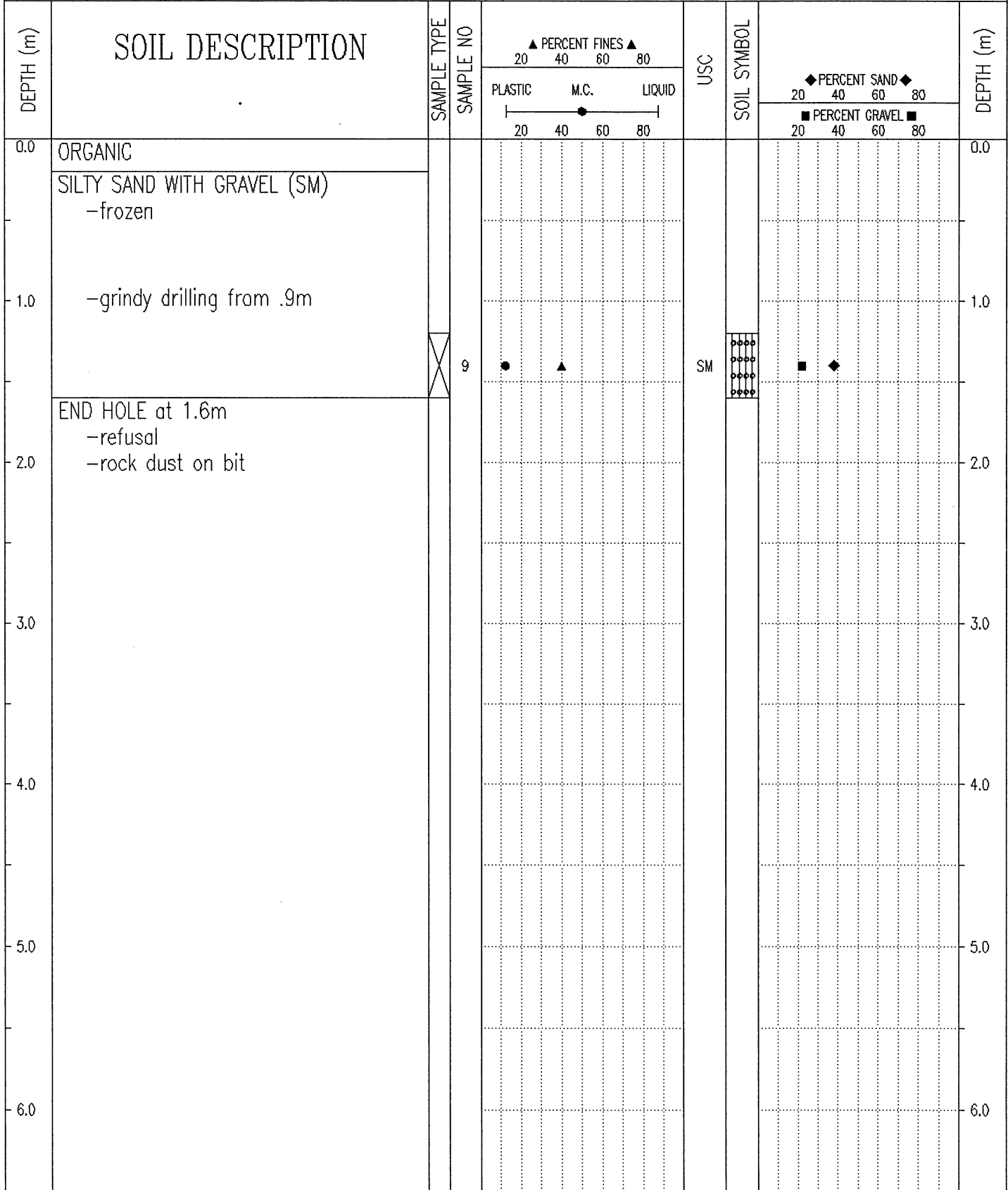


Government of Yukon
Transportation Engineering

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

COMPLETION DEPTH: 0.6 m
COMPLETE: 98/11/26

| | | |
|---|--|---|
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: G.C. | COMPLETION DEPTH: 1.6 m |
| | REVIEWED BY: | COMPLETE: 98/11/26 |
| | Fig. No: | Page 1 of 1 |

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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) |

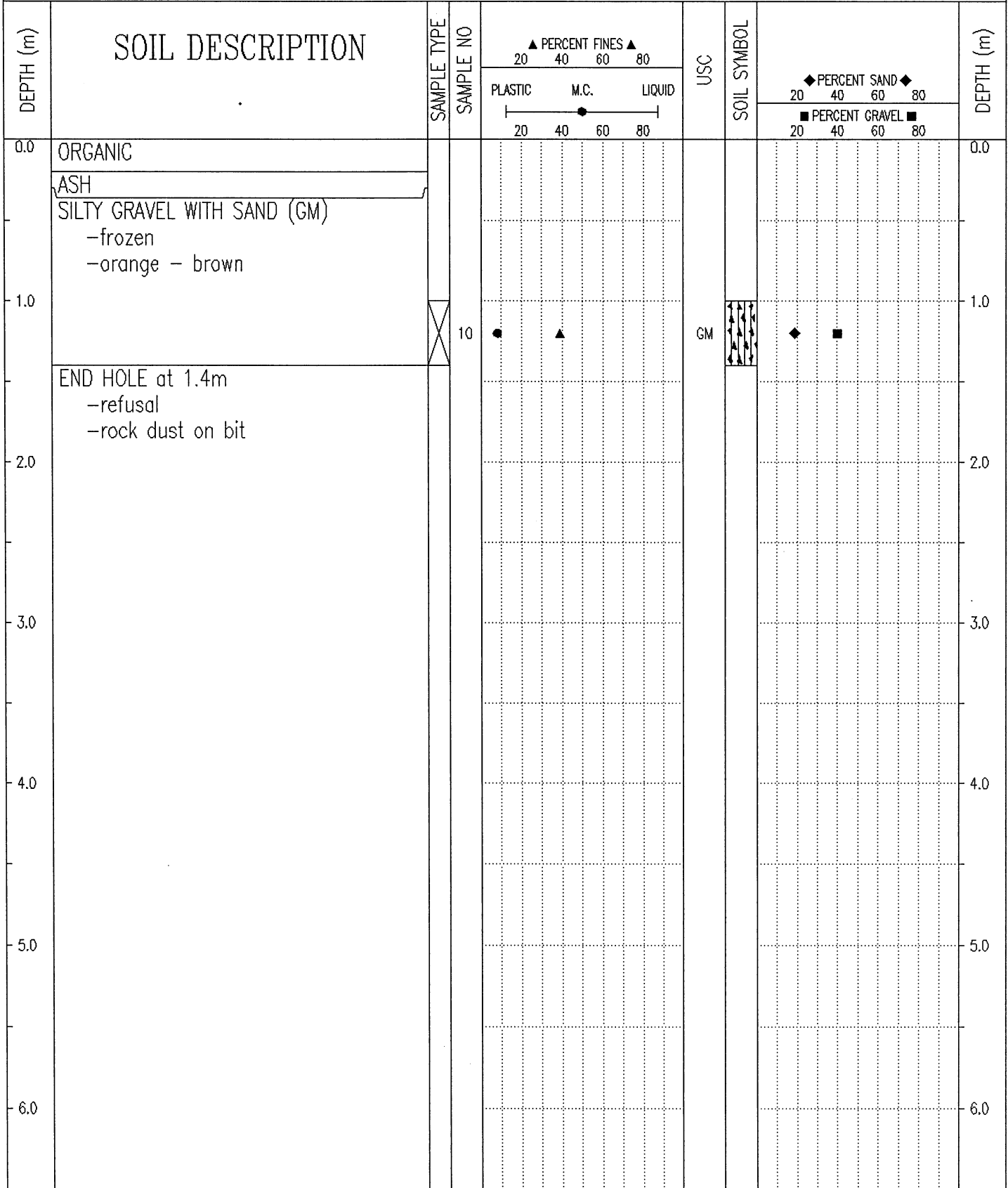
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-----|-------------|----------------|----|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | 20 | 40 | |
| 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 |

Government of Yukon
Transportation Engineering

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| LOGGED BY: CC | COMPLETION DEPTH: 1.6 m |
| REVIEWED BY: | COMPLETE: 95/07/27 |
| Fig. No: | Page 1 of 1 |

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



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Transportation Engineering

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

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

| | | |
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| 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 | DEPTH (m) |
|-----------|--|-------------|-----------|-----------------|------|--------|-----|-------------|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | |
| | | | | 20 | 40 | 60 | 80 | | |
| | | | | 20 | 40 | 60 | 80 | | |
| 0.0 | ORGANIC & ASH -frozen | | | | | | | | 0.0 |
| | 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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LOGGED BY: B.S.

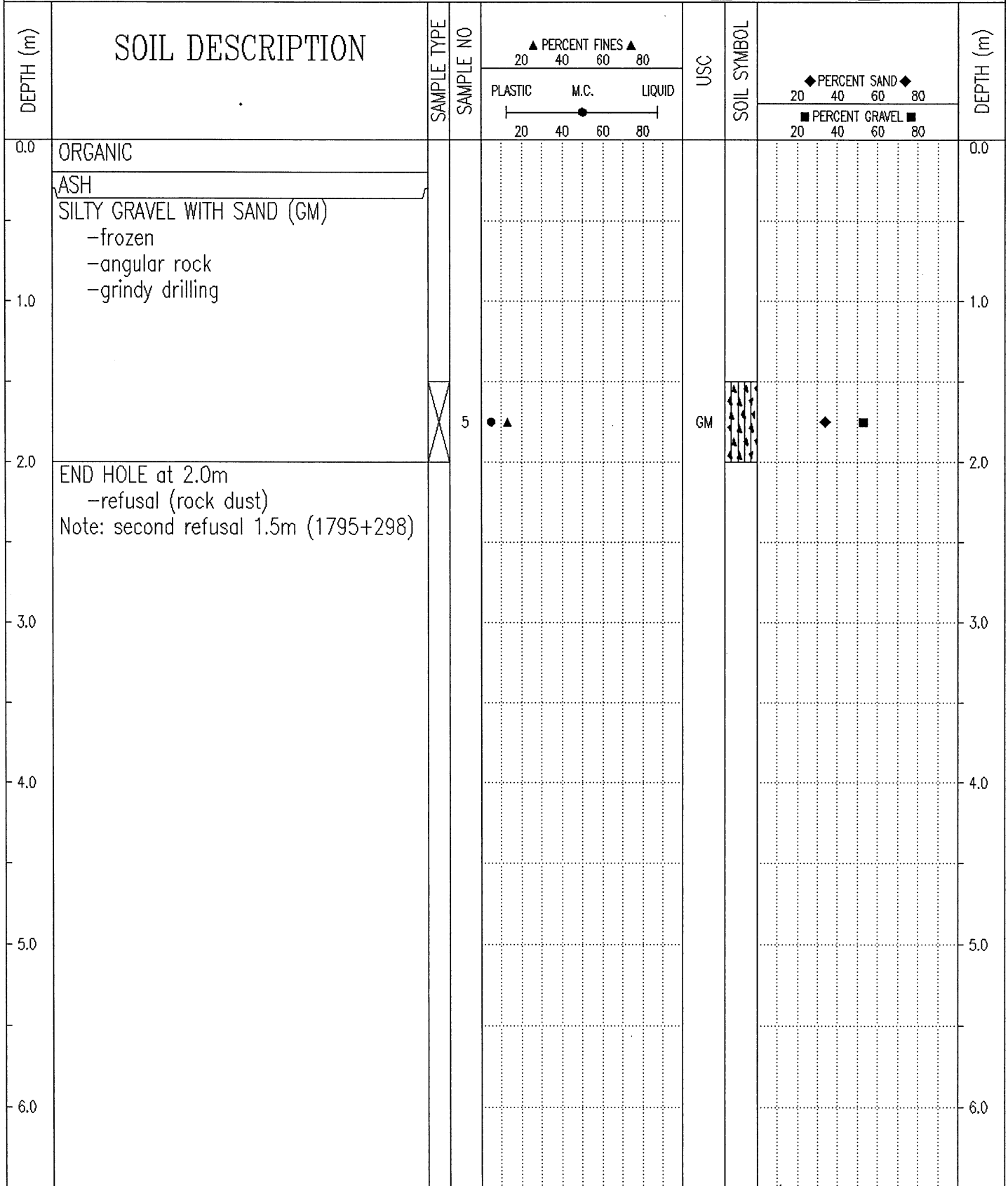
REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 0.3 m

COMPLETE: 98/11/27

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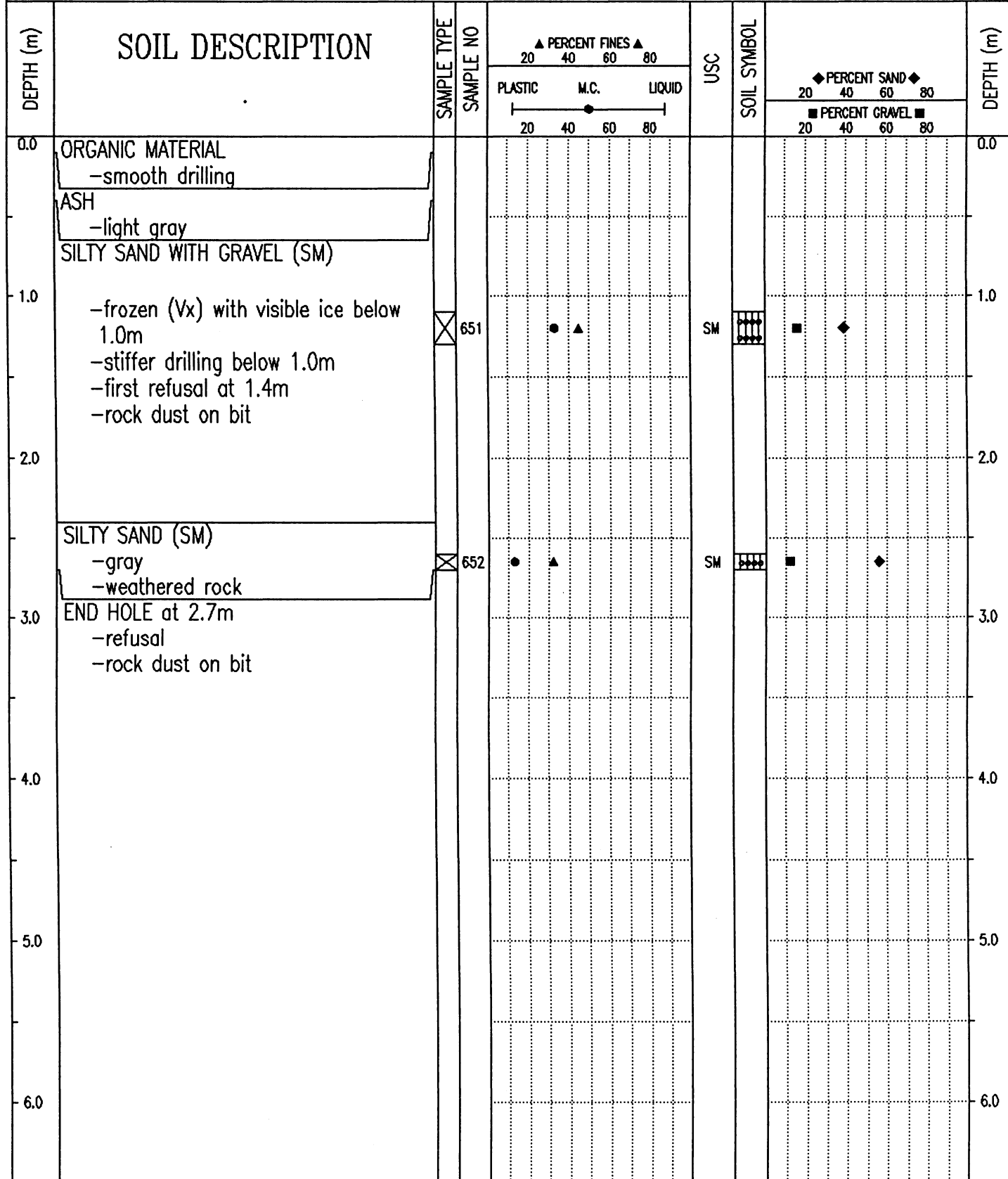
LOGGED BY: G.C.
REVIEWED BY:
Fig. No:

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 | | RETURN | | S.P.T. | | | | | | | | |
| | | AUGER | | BULK | | | | | | | | |
| | | | | TUBE | | | | | | | | |
| | | | | CORE | | | | | | | | |
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES | | | USC | SOIL SYMBOL | PERCENT SAND | | | DEPTH (m) |
| | | | | PLASTIC | M.C. | LIQUID | | | PERCENT GRAVEL | | | |
| 0.0 | ORGANIC | | | | | | | | | | 0.0 | |
| | 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 | | | | | | |

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| 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) |

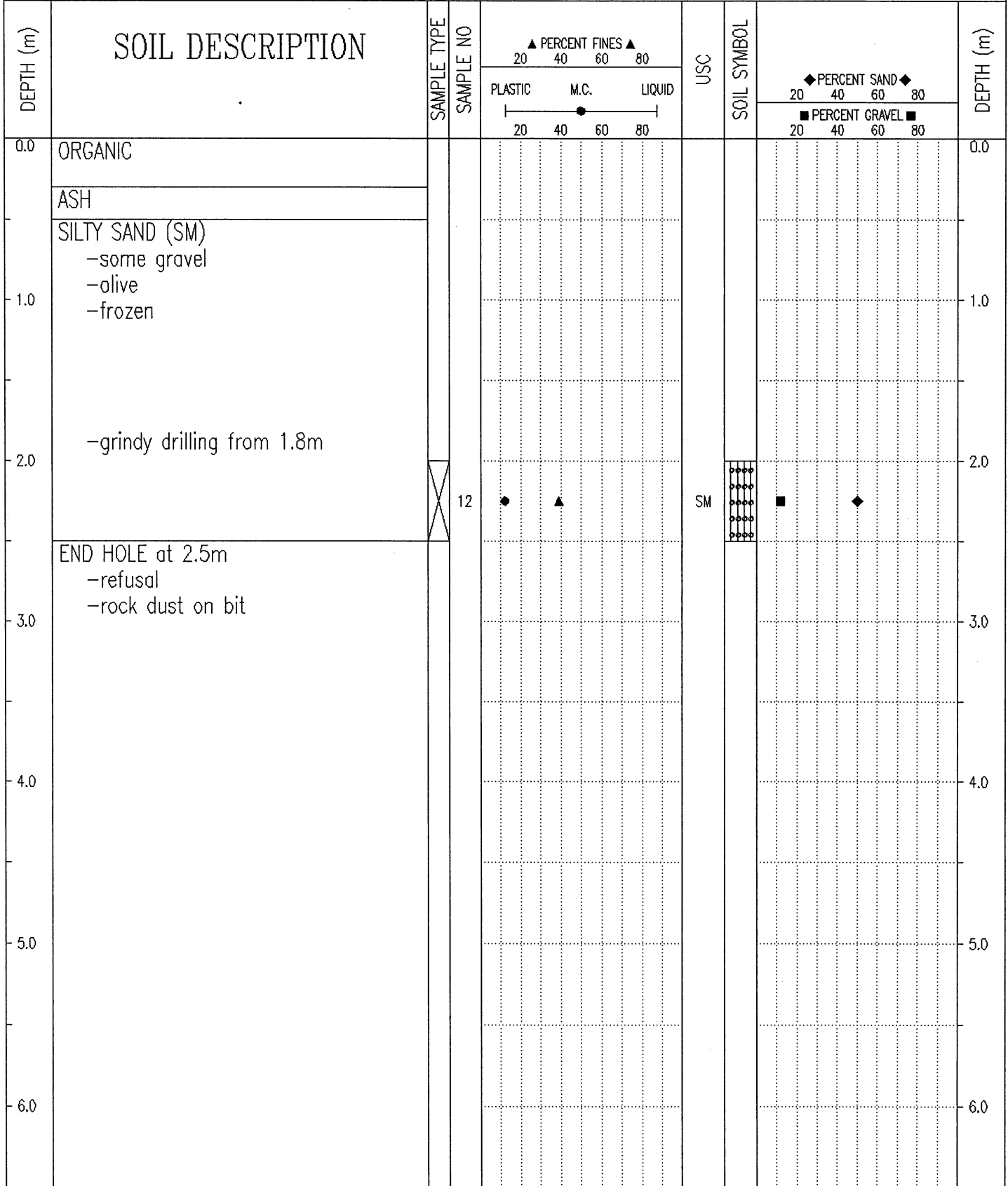
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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

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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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| 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 |

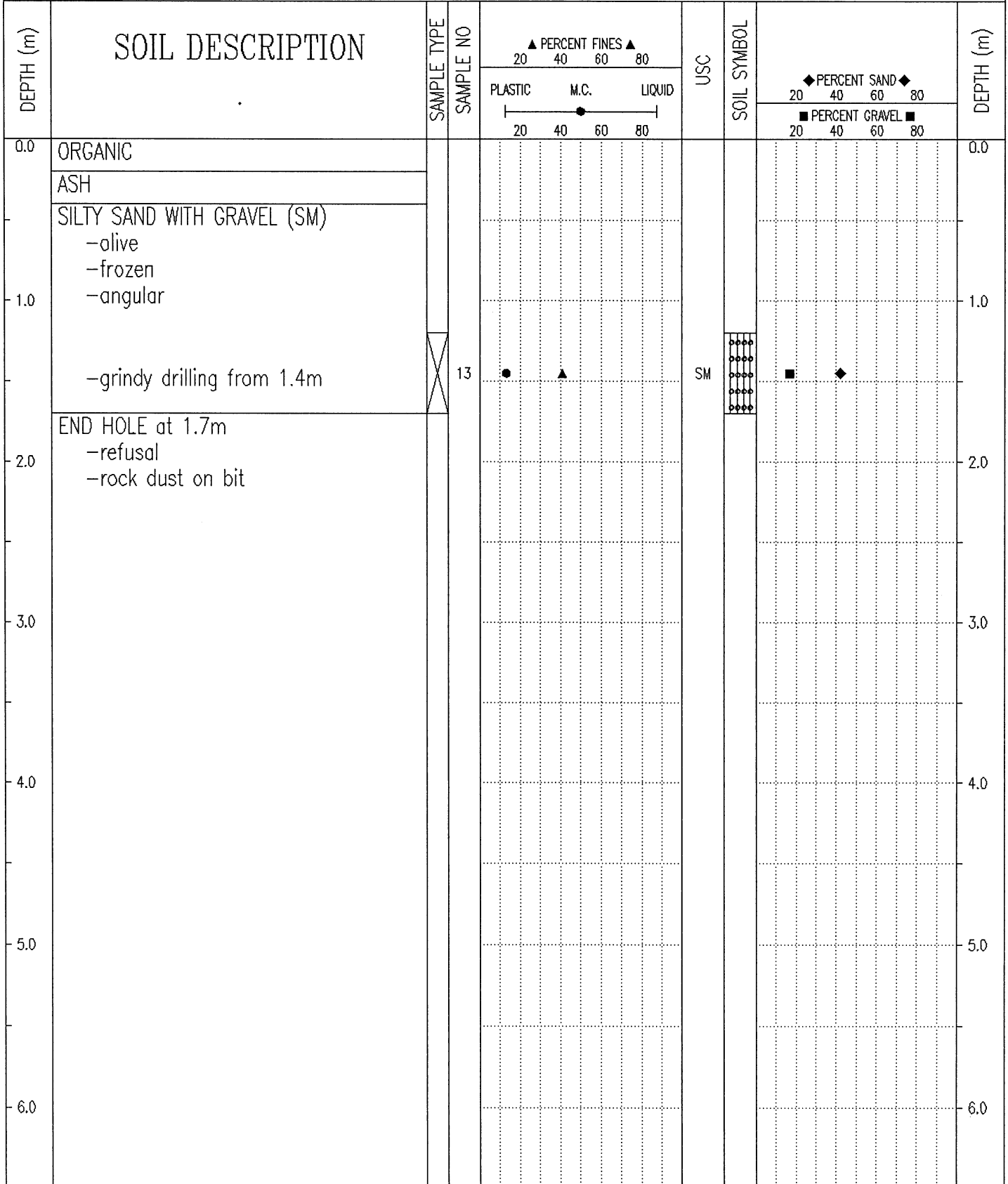
| | | | | | | | | | | | | |
|--|--|-------------------------------------|-----------|-----------------------------|------|-------------------------|-------------|------------------|------------------|-----------|--|-------------|
| SUBSURFACE EXPLORATION AND TEST REPORT | | ENGINEERING CAPITAL | | TEST 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 |

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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: G.C. | COMPLETION DEPTH: 1.4 m |
| | REVIEWED BY: | COMPLETE: 98/11/26 |
| | Fig. No: | Page 1 of 1 |

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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 | | |



Government of Yukon
Transportation Engineering

LOGGED BY: G.C.

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 | | | 20 | 40 | 60 | |
| 0.0 | ORGANIC ORGANIC SILT -frozen (Vx) | | | | | | | | | | | 0.0 |
| 1.0 | | | | | | | | | | | | 1.0 |
| 1.7 | GRAVEL -frozen | <input checked="" type="checkbox"/> | 20 | | | | | | | | | 1.7 |
| 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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| Government of Yukon Transportation Engineering | LOGGED BY: B.S. | COMPLETION DEPTH: 1.7 m |
| | REVIEWED BY: | COMPLETE: 98/11/27 |
| | Fig. No: | Page 1 of 1 |

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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 | | | |
| 0.0 | ORGANIC -frozen -ASH layer 0.1-0.3m | | | | | | | | 0.0 |
| 1.0 | SANDY SILT -with traces of gravel | | | | | | | | 1.0 |
| 1.4 | WEATHER ROCK END HOLE at 1.4m -refusal -moved 5m downchain refusal at 1.5m | <input checked="" type="checkbox"/> | 19 | | | | | | 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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Transportation Engineering

LOGGED BY: B.S.

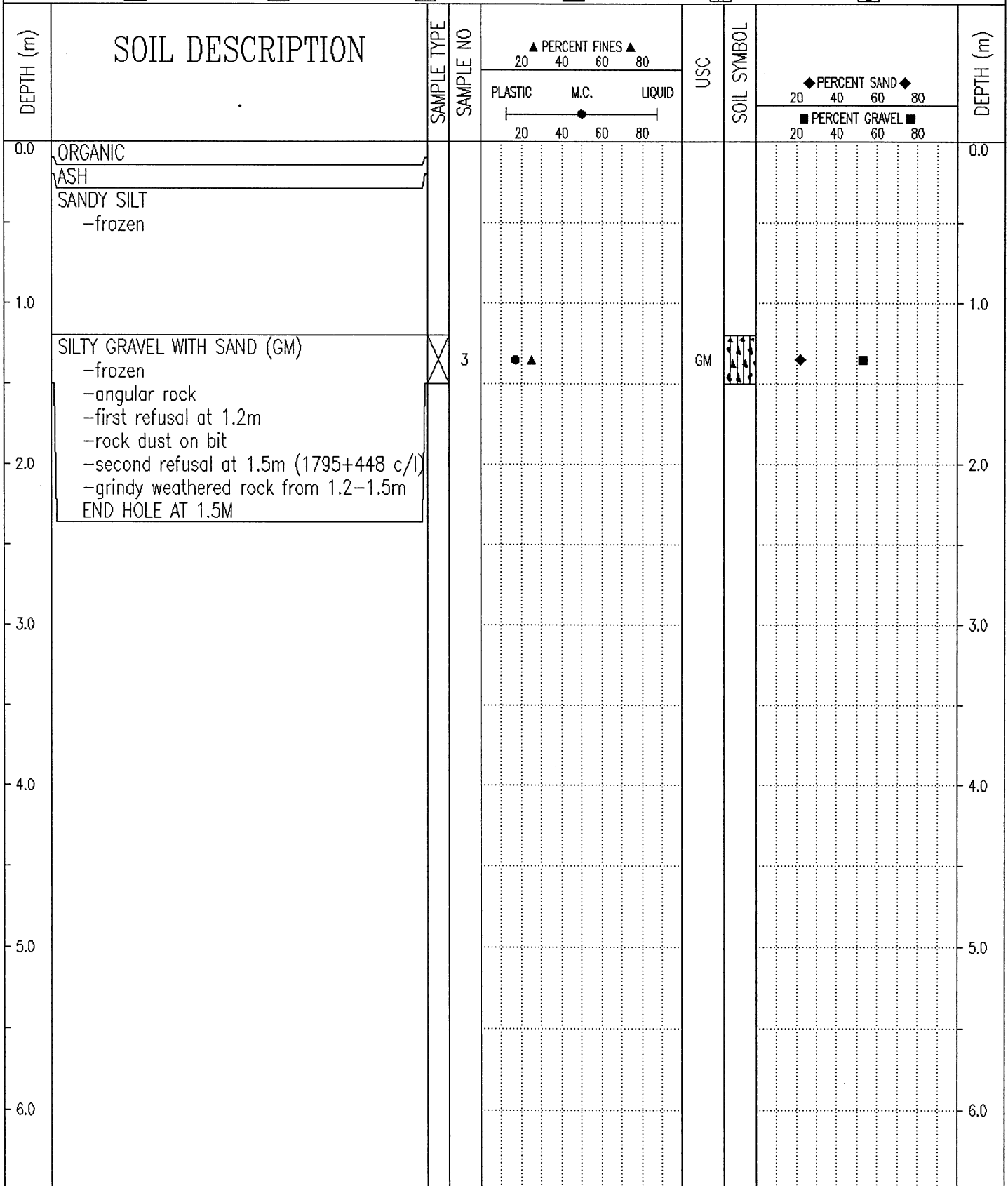
REVIEWED BY:

Fig. No:

COMPLETION DEPTH: 1.5 m

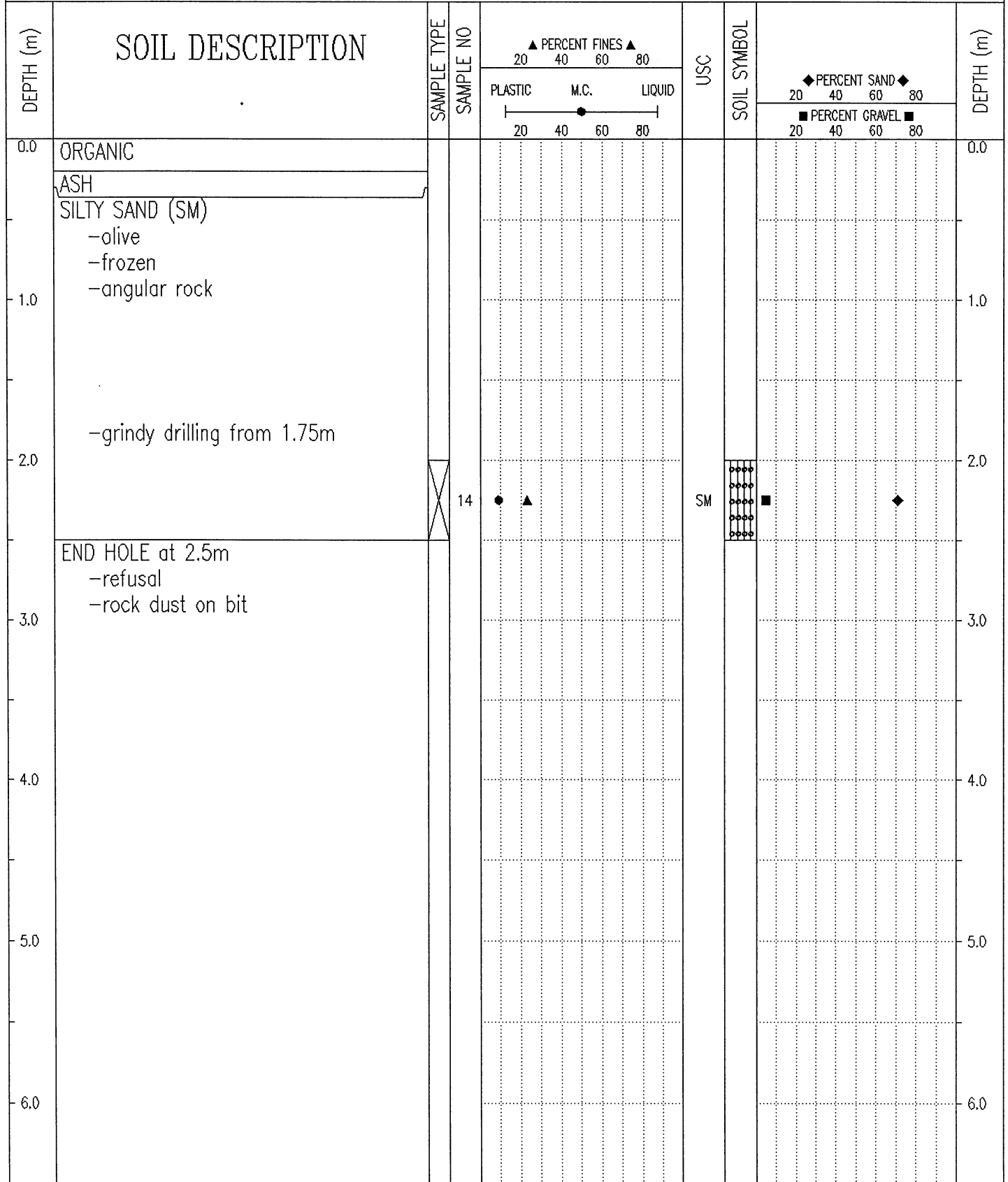
COMPLETE: 98/11/27

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| 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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| Government of Yukon Transportation Engineering | LOGGED BY: G.C. | COMPLETION DEPTH: 1.5 m |
| | REVIEWED BY: | COMPLETE: 98/11/26 |
| | Fig. No: | Page 1 of 1 |

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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 |



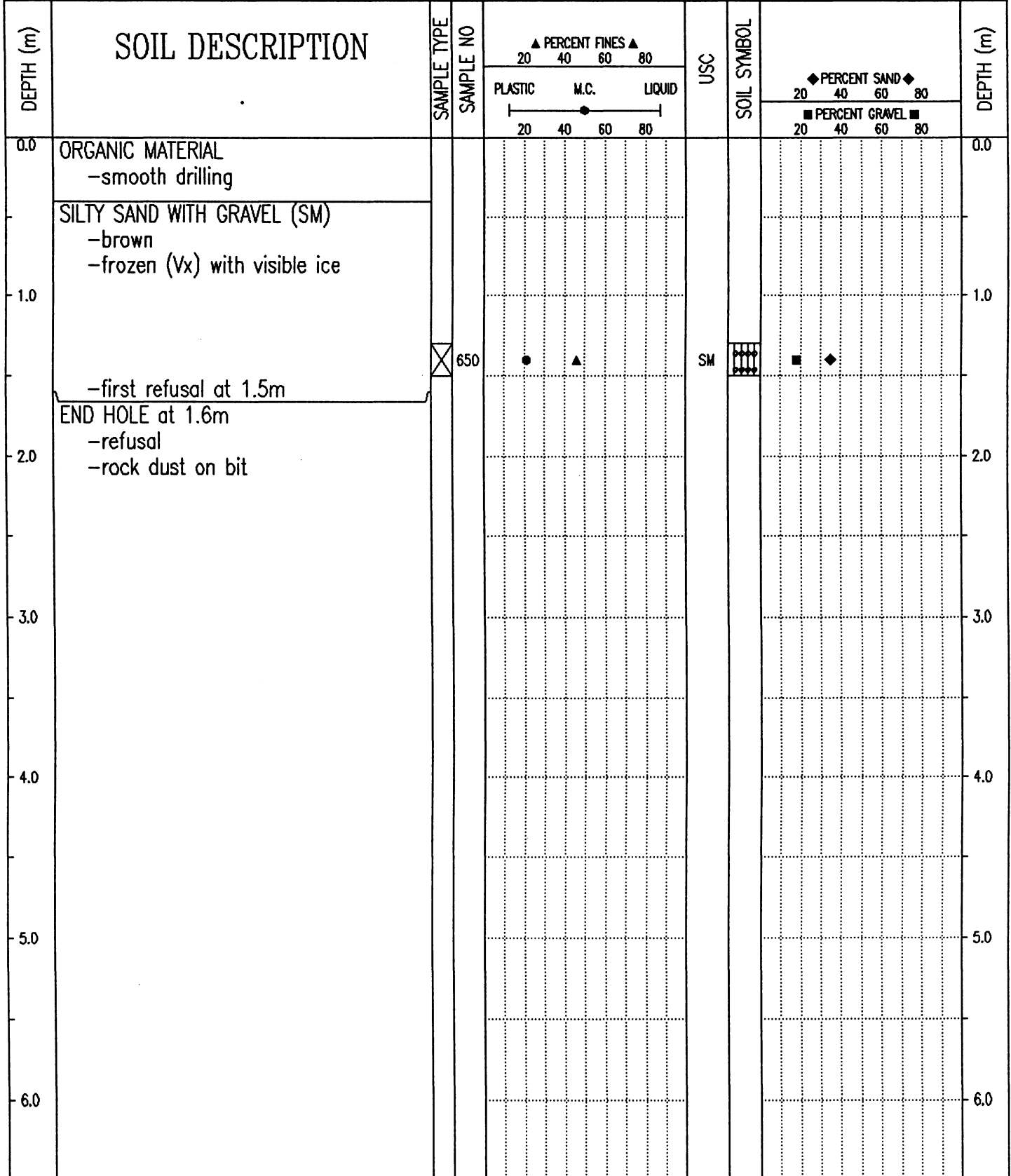
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Transportation Engineering

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

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

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| 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) |

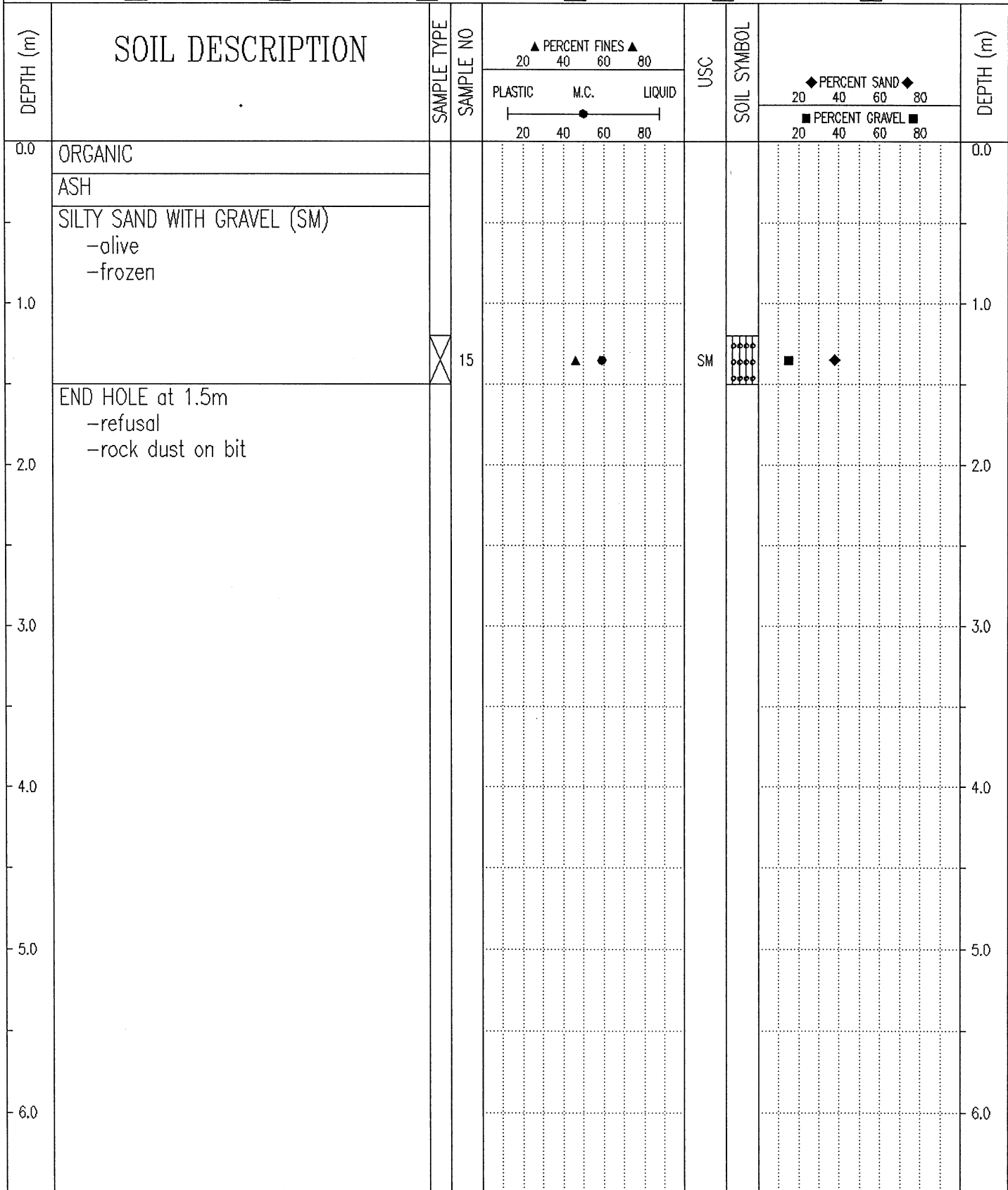
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE



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| LOGGED BY: CC | COMPLETION DEPTH: 1.6 m |
| REVIEWED BY: | COMPLETE: 95/07/27 |
| Fig. No: | Page 1 of 1 |

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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 |
| Fig. No: | Page 1 of 1 |

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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 |

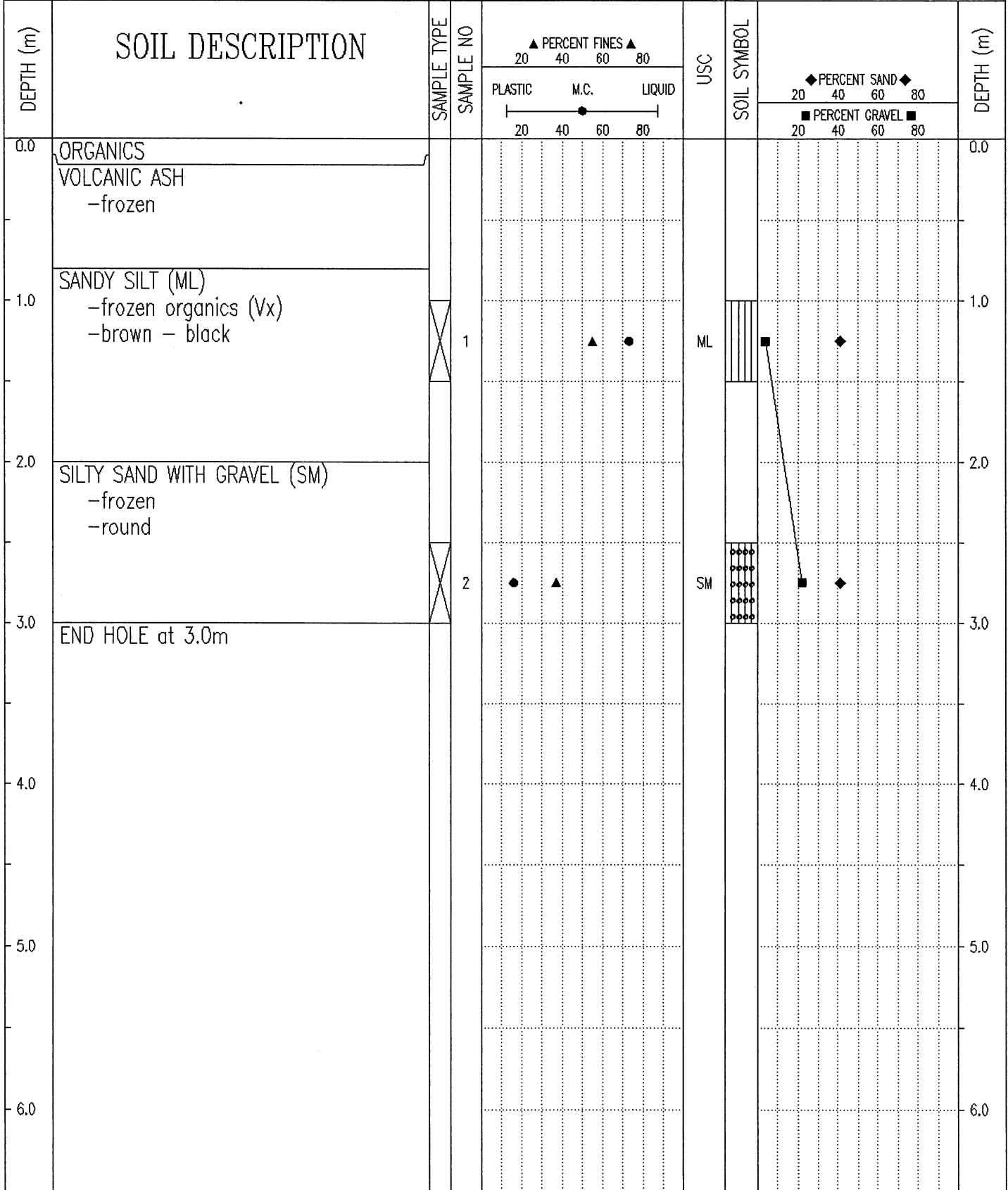
| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES | | | USC | SOIL SYMBOL | PERCENT SAND | | | PERCENT GRAVEL | DEPTH (m) |
|-----------|--|-------------|-----------|---------------|------|--------|-----|-------------|--------------|----|----|----------------|-----------|
| | | | | 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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LOGGED BY: B.S.
REVIEWED BY:
Fig. No:

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

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| 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 |

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| 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 | 65 | 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 |
| Fig. No: | Page 1 of 1 |

| 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 | | 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 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 | X | 646 | ▲ | | | GP | ▲▲▲ | ◆ | ■ | | 2.0 |
| 3.0 | SILTY SAND (SM) -brown -moist -smoother drilling | X | 647 | | ▲ | | SM | ○○○○ | | ■ | | 3.0 |
| 4.0 | SANDY SILT (ML) -brown -moist | X | 648 | | ▲ | | ML | | | ◆ | | 4.0 |
| 5.0 | END OF HOLE 4.5m | | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | | 6.0 |

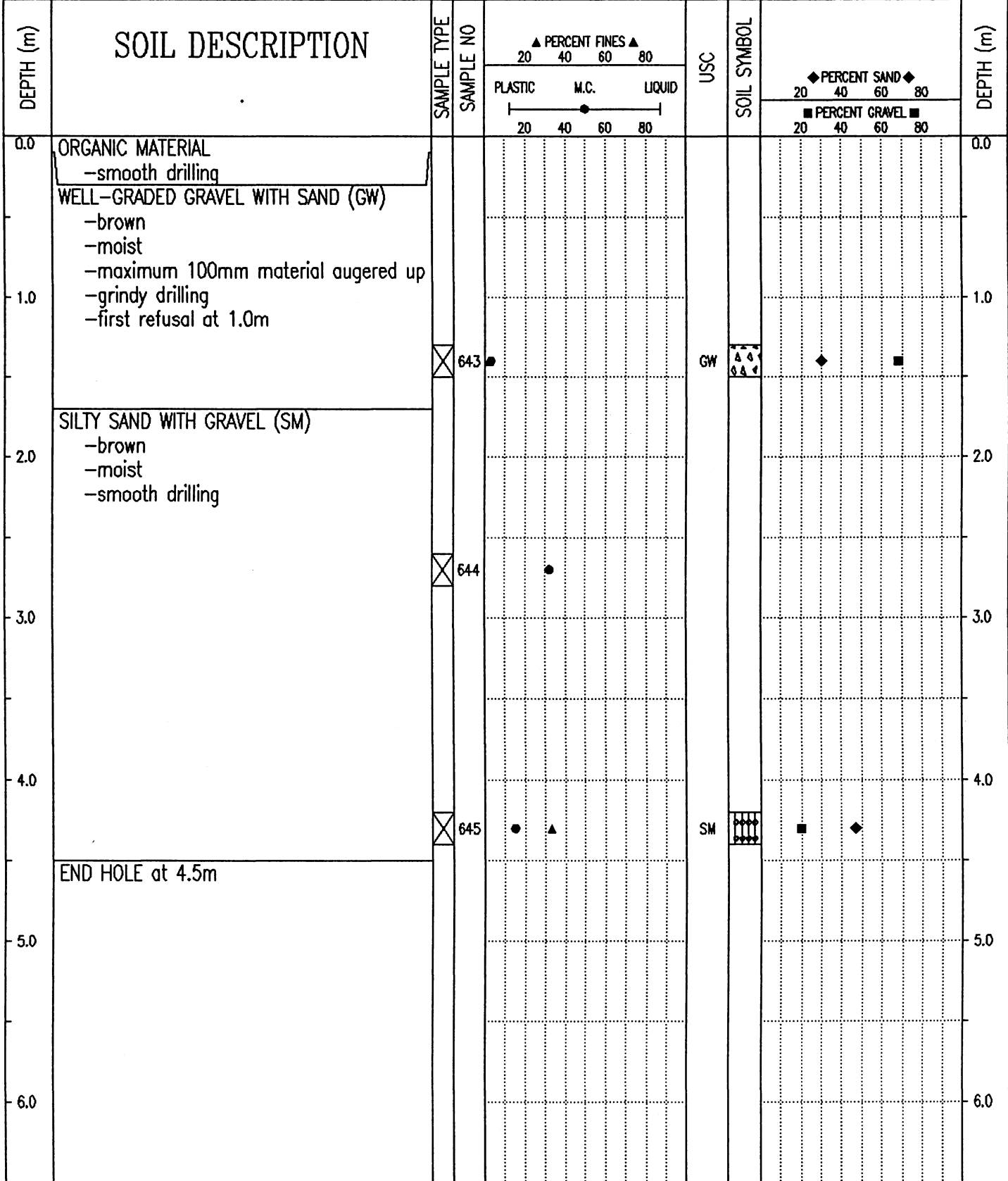
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LOGGED BY: CC
REVIEWED BY:
Fig. No:

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

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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | TEST HOLE NO: 371-314 |
| 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 |
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| Fig. No: | Page 1 of 1 |

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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

| DEPTH (m) | SOIL DESCRIPTION | SAMPLE TYPE | SAMPLE NO | PERCENT FINES ▲ | | | USC | SOIL SYMBOL | PERCENT SAND ◆ | | PERCENT GRAVEL ■ | | DEPTH (m) |
|-----------|---|-------------------------------------|-----------|-----------------|----|----|-----|-------------|----------------|----|------------------|-----|-----------|
| | | | | 20 | 40 | 60 | | | 20 | 40 | 60 | 80 | |
| 0.0 | ORGANIC MATERIAL -smooth drilling | | | | | | | | | | | 0.0 | |
| 0.0 - 1.0 | SAND -brown -moist -trace of silt | | | | | | | | | | | | |
| 1.0 | WELL-GRADED GRAVEL WITH SAND (GW) -brown -moist -maximum 100mm material augered up -grindy drilling | <input checked="" type="checkbox"/> | 640 | | | | GW | ▲▲▲▲ | ◆ | ■ | | 1.0 | |
| 2.0 | | | | | | | | | | | | 2.0 | |
| 2.0 - 3.0 | SANDY SILT (ML) -brown -moist -smooth drilling | | | | | | | | | | | | |
| 3.0 | | <input checked="" type="checkbox"/> | 641 | ● | ▲ | | ML | | ◆ | | | 3.0 | |
| 4.0 | | | | | | | | | | | | 4.0 | |
| 4.0 - 5.0 | POORLY GRADED GRAVEL WITH SAND (GP) -brown -saturated -maximum 100mm material augered up -grindy drilling | <input checked="" type="checkbox"/> | 642 | ▲ | | | GP | ▲▲▲▲ | ◆ | ■ | | 4.0 | |
| 5.0 | END HOLE at 4.5m | | | | | | | | | | | 5.0 | |
| 6.0 | | | | | | | | | | | | 6.0 | |

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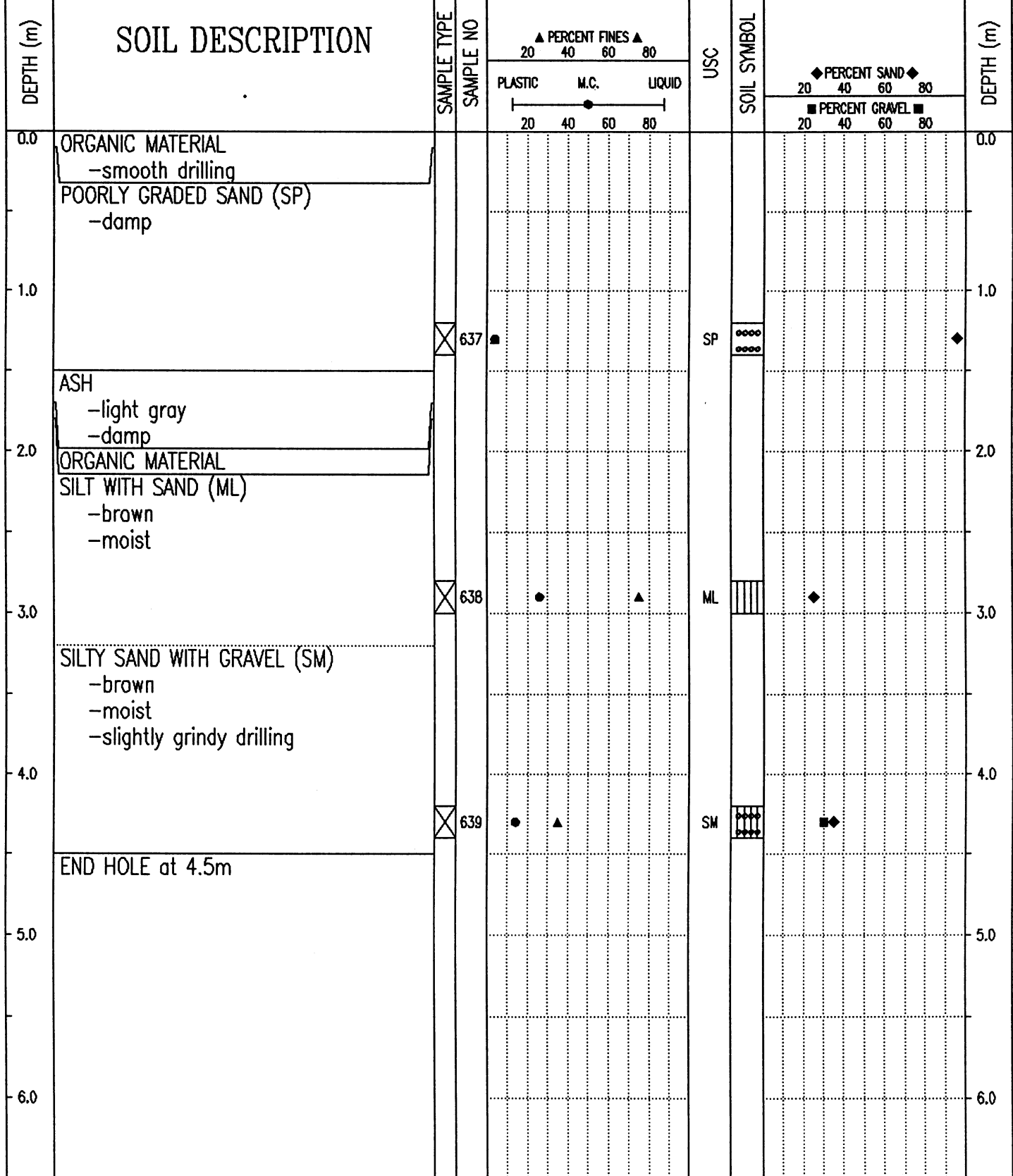
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Fig. No:

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

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| SUBSURFACE EXPLORATION AND TEST REPORT | SHAKWAK PROJECT | TEST HOLE NO: 371-312 |
| 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

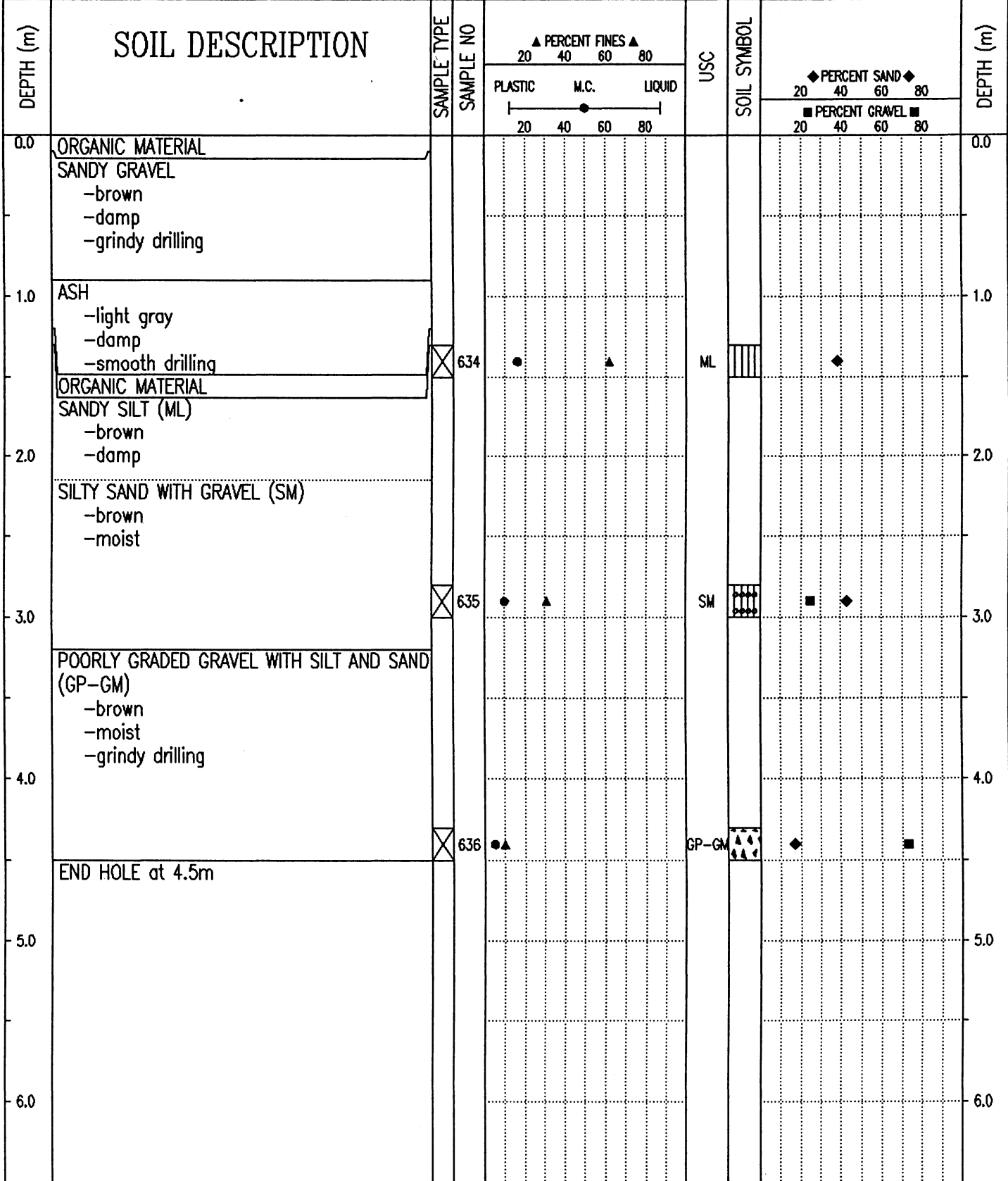


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| LOGGED BY: CC | COMPLETION DEPTH: 4.5 m |
| REVIEWED BY: | COMPLETE: 95/07/27 |
| Fig. No: | Page 1 of 1 |

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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 ◆ | | DEPTH (m) |
|-----------|---|-------------|-----------|-----------------|------|--------|-------|-------------|----------------|----|-----------|
| | | | | PLASTIC | M.C. | LIQUID | | | 20 | 40 | |
| 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 |
| | END HOLE at 4.5m | | | | | | | | | | |
| 5.0 | | | | | | | | | | | 5.0 |
| 6.0 | | | | | | | | | | | 6.0 |

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

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| 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) |

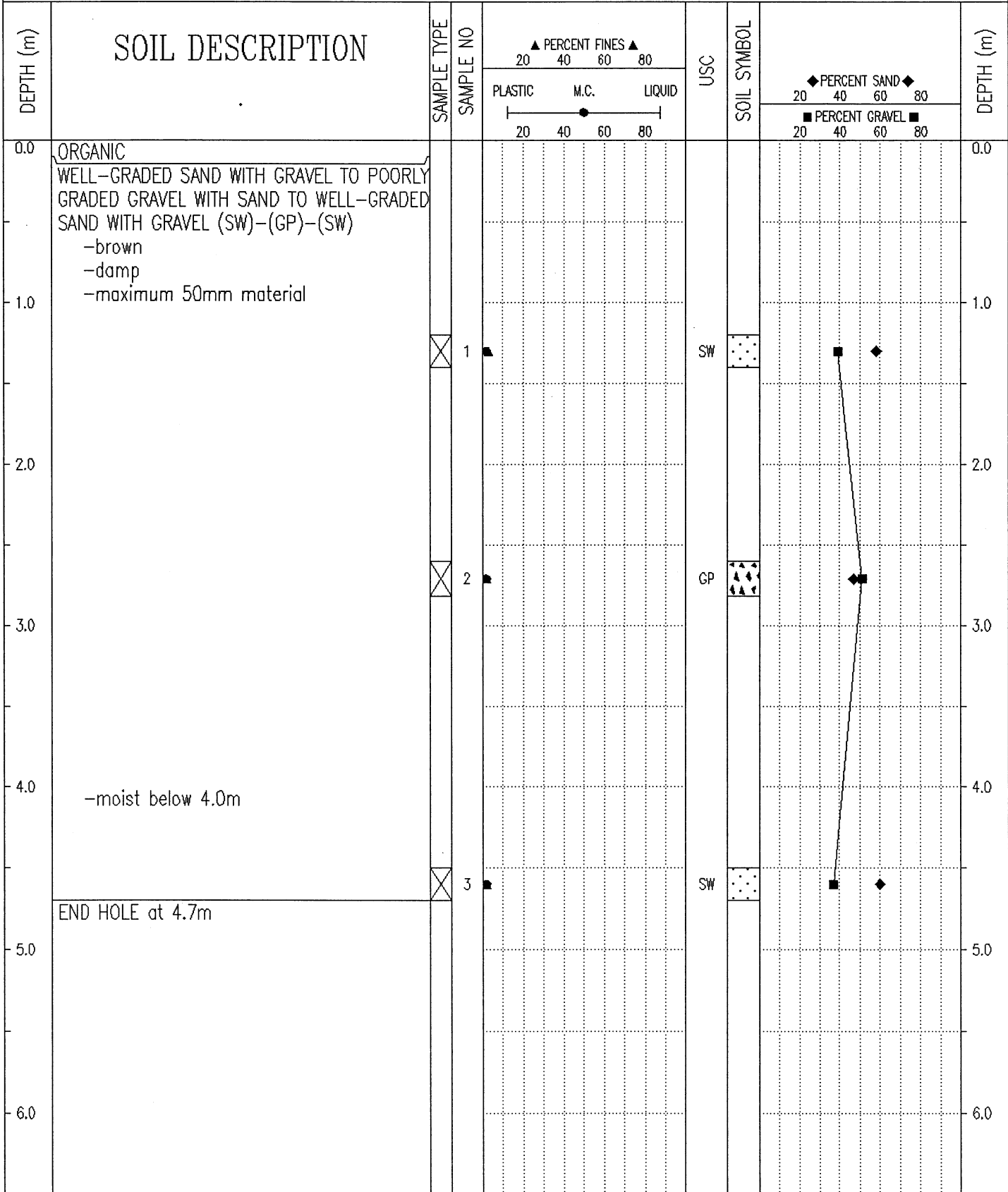
SAMPLE TYPE RETURN S.P.T. AUGER BULK TUBE CORE

| 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 |

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



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REVIEWED BY:

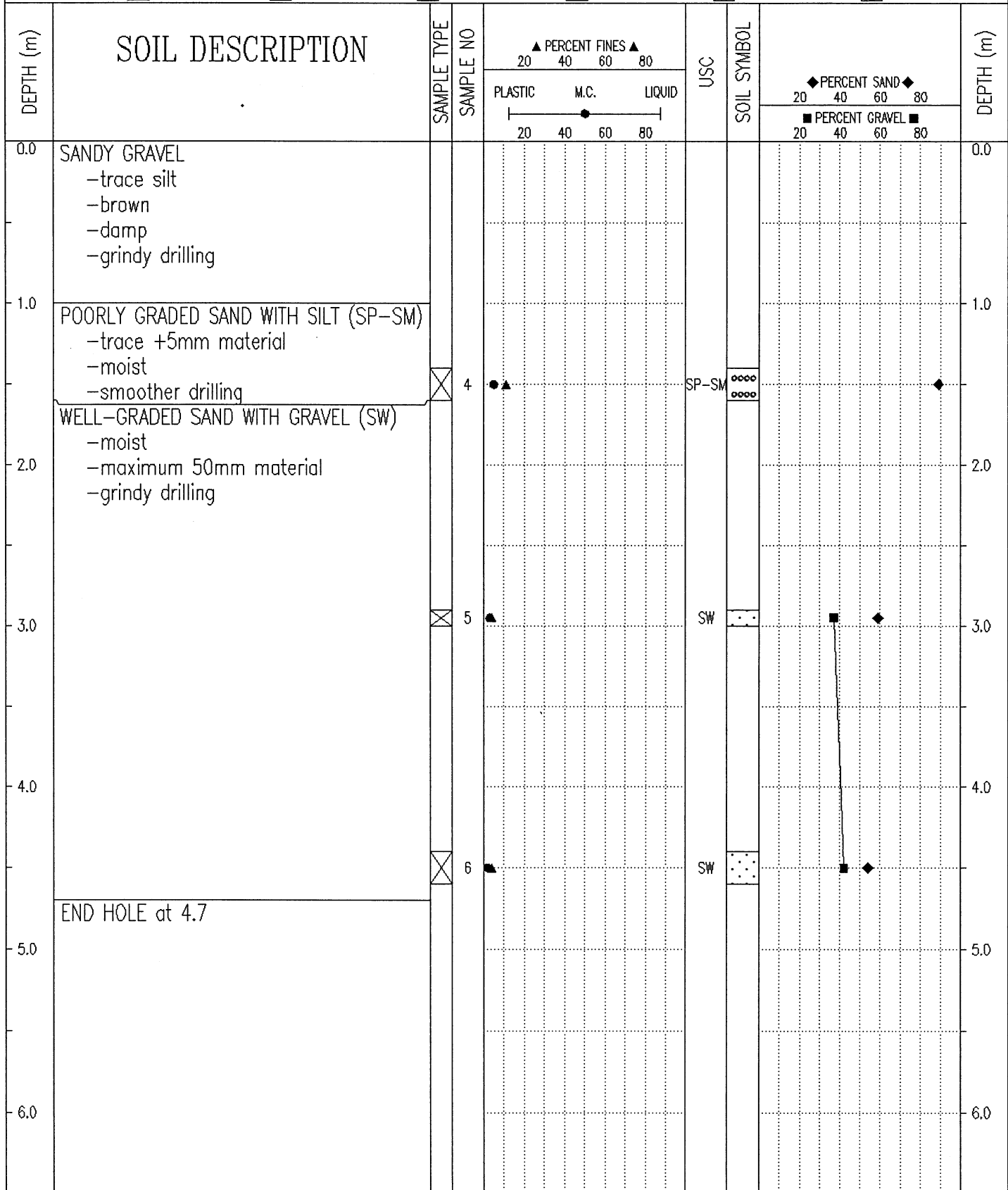
Fig. No:

COMPLETION DEPTH: 4.7 m

COMPLETE: 98/11/10

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| 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 | | |

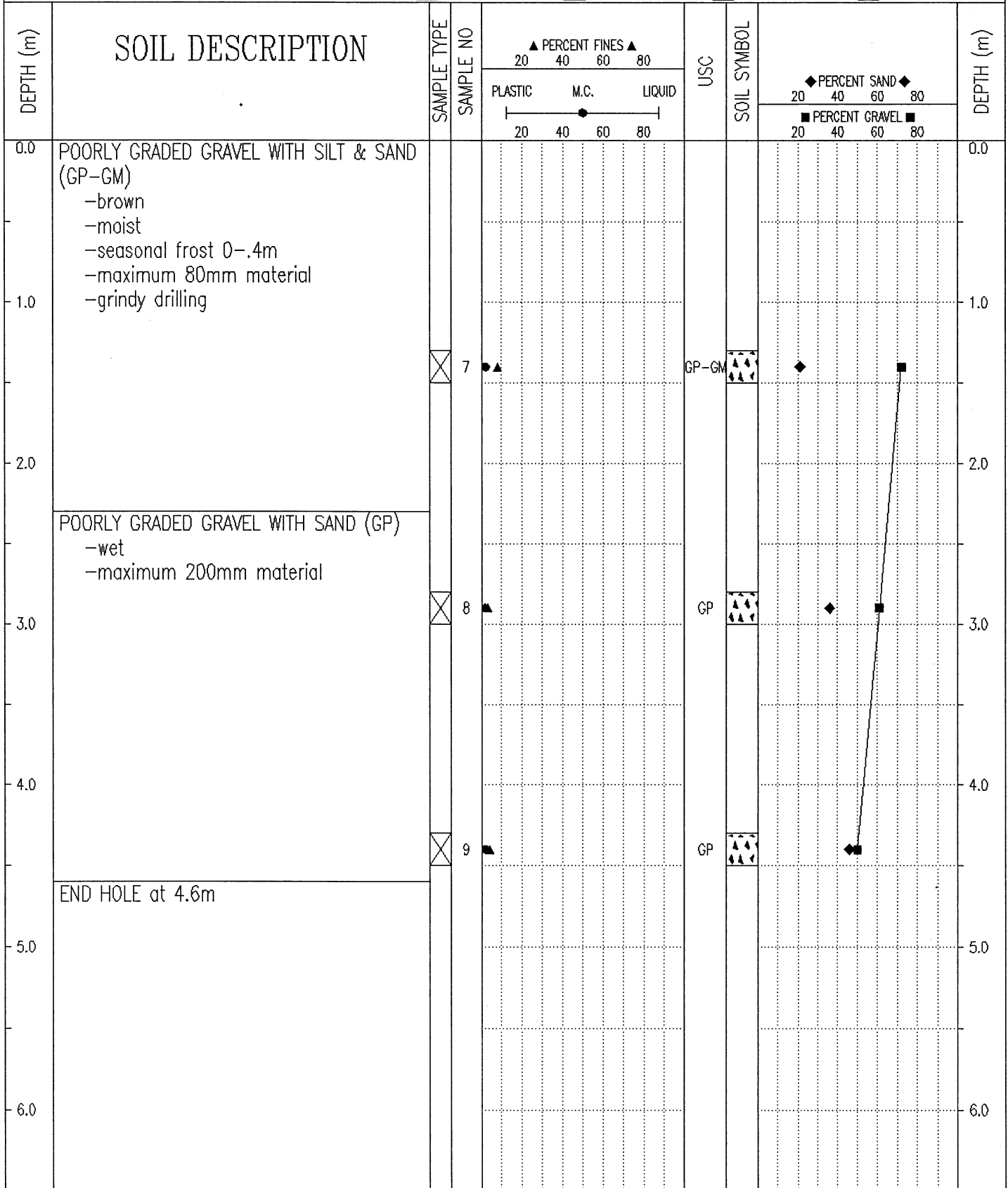


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Fig. No:

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: 499-244 |
| 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 | | |



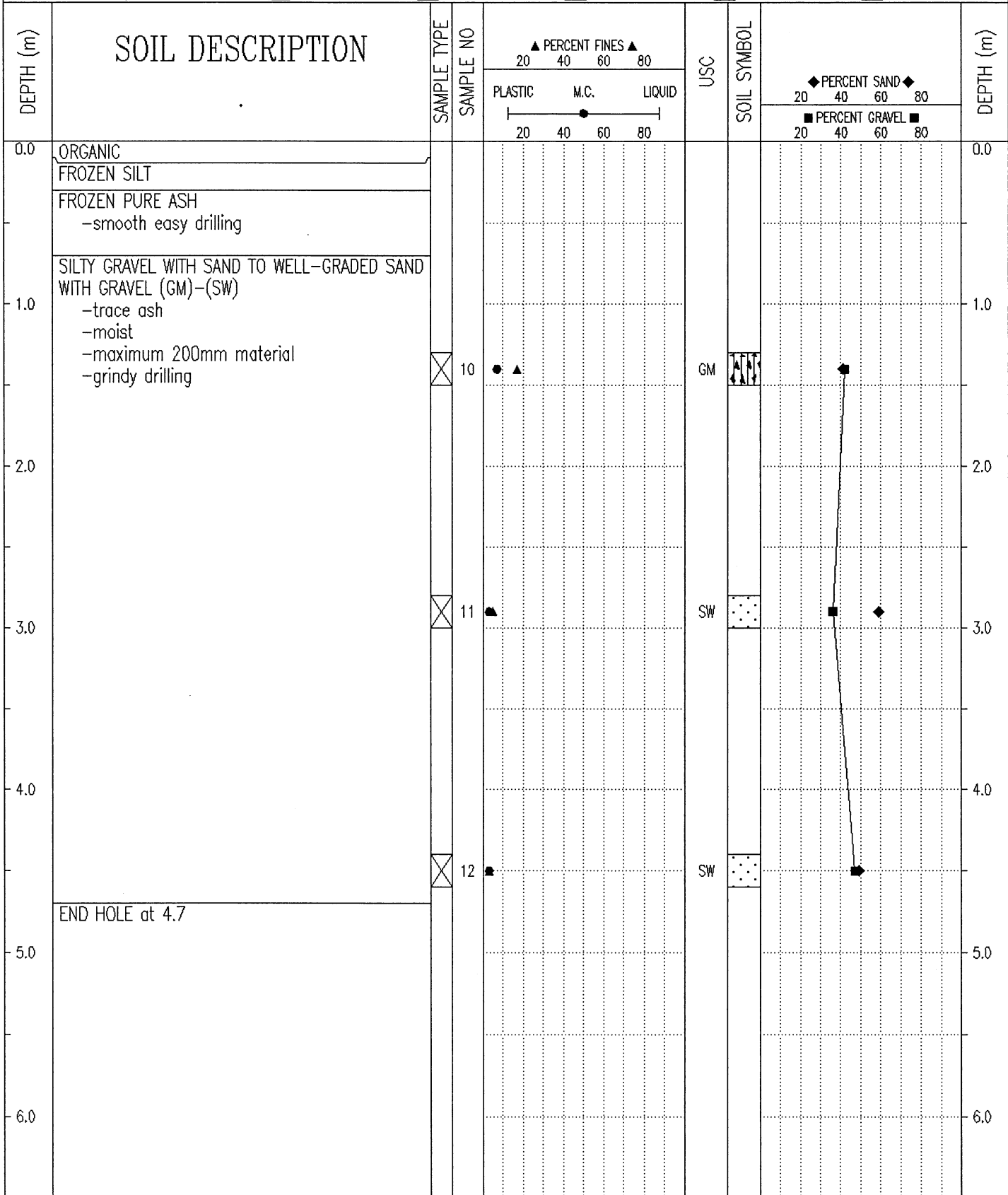
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Fig. No:

COMPLETION DEPTH: 4.6 m
COMPLETE: 98/11/10

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| 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

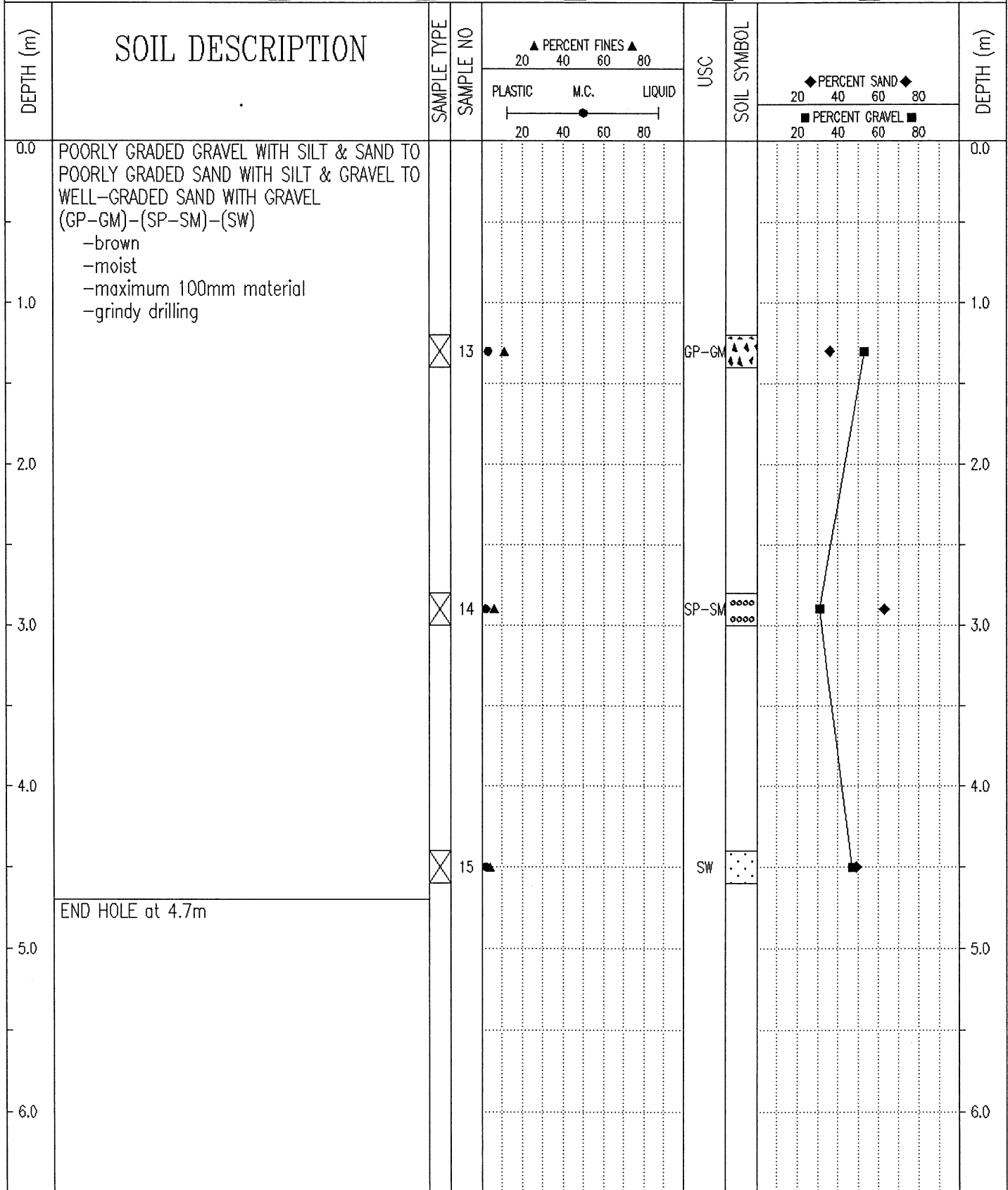


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Fig. No:

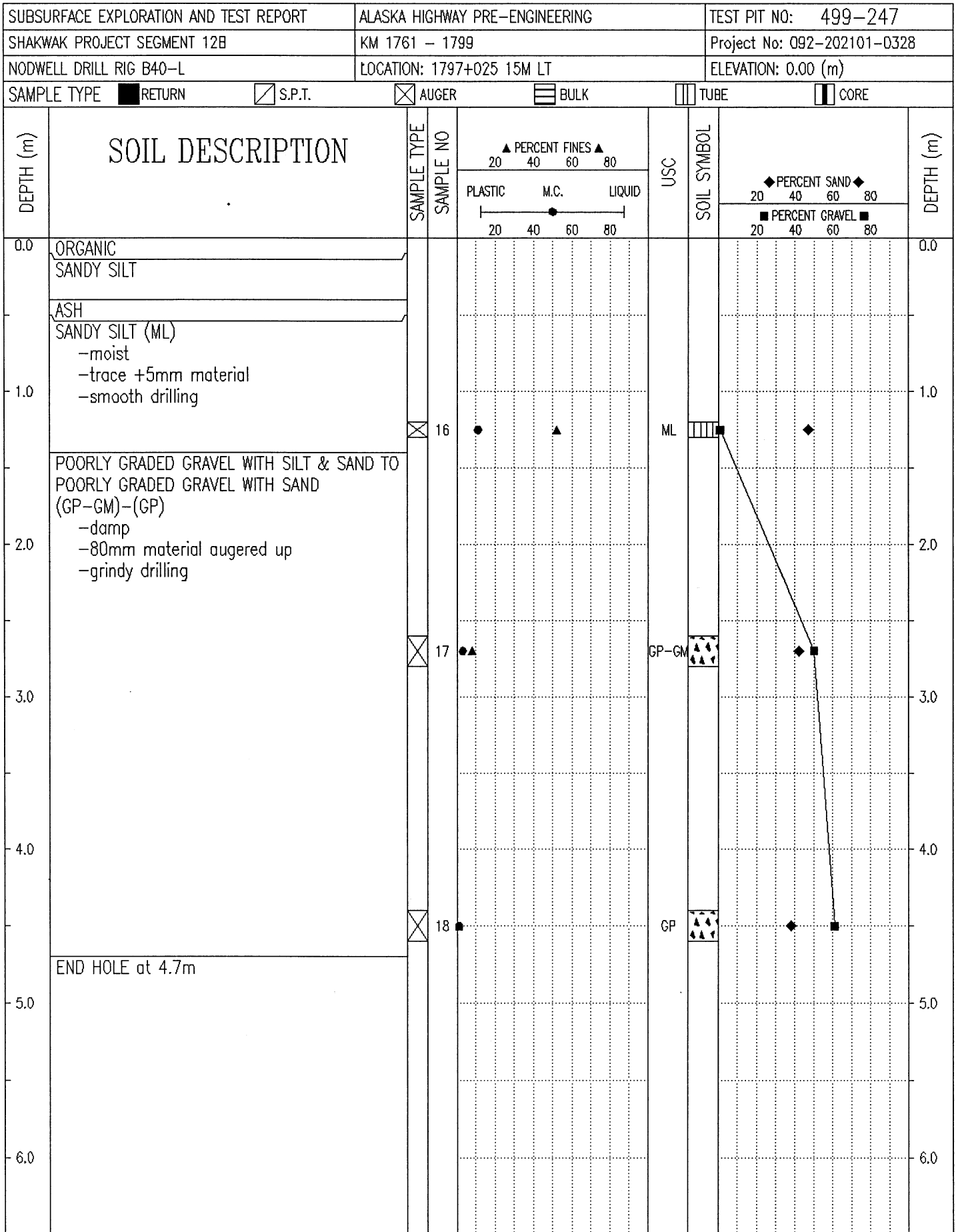
COMPLETION DEPTH: 4.7 m
COMPLETE: 98/11/10

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| SUBSURFACE EXPLORATION AND TEST REPORT | ALASKA HIGHWAY PRE-ENGINEERING | TEST PIT NO: 499-246 |
| 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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| LOGGED BY: W.E. | COMPLETION DEPTH: 4.7 m |
| REVIEWED BY: | COMPLETE: 98/11/10 |
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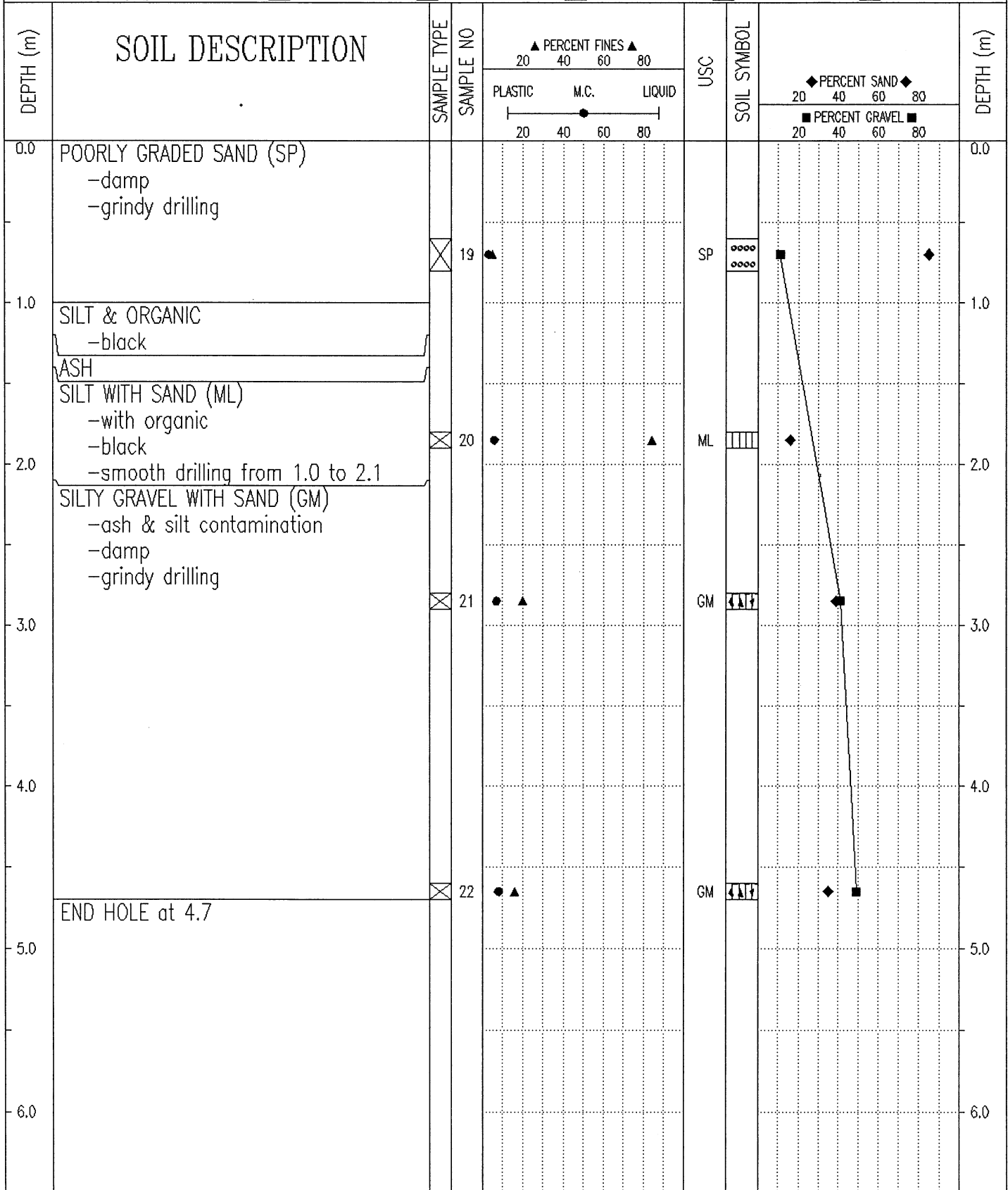
Fig. No:

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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REVIEWED BY:
Fig. No:

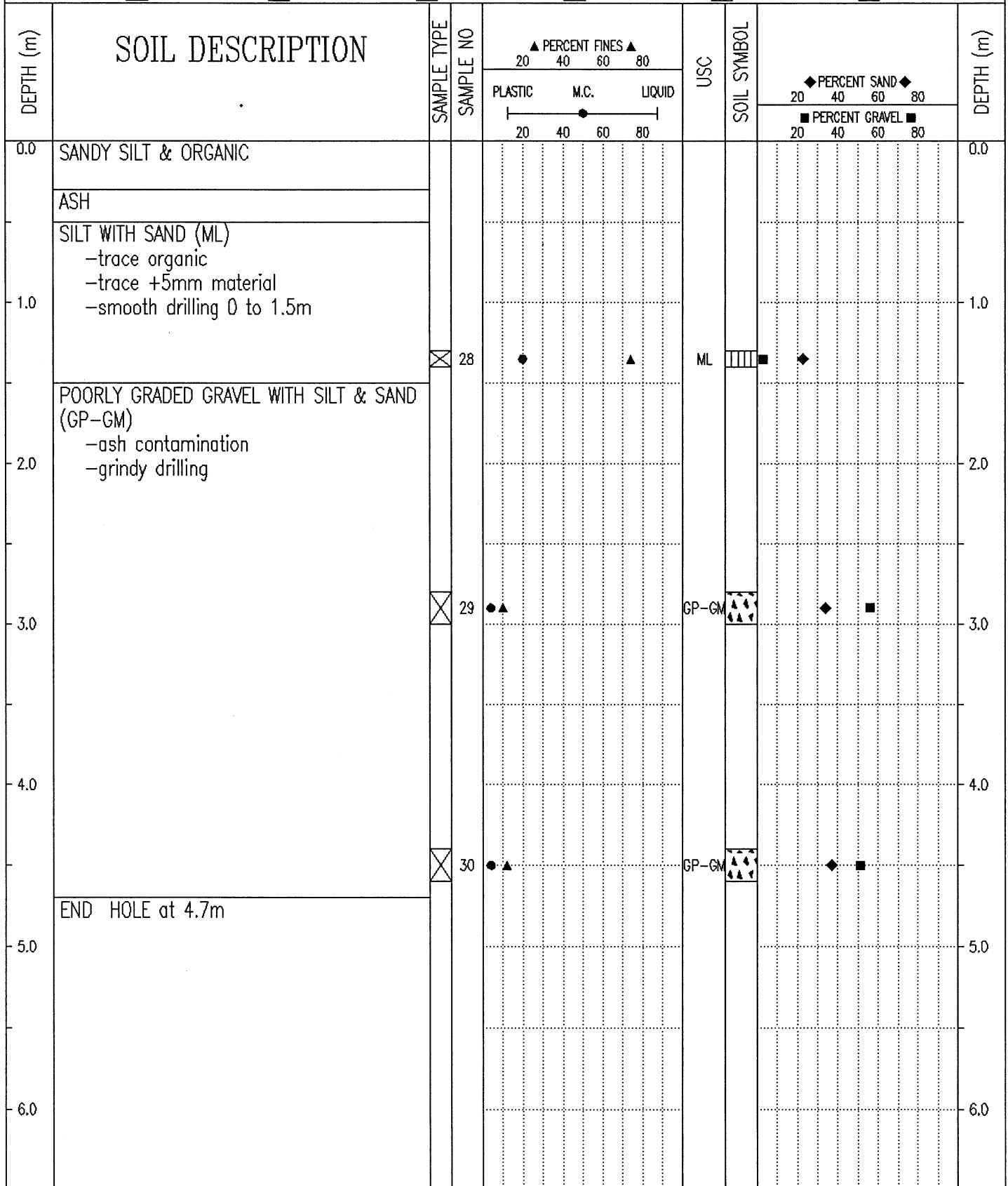
COMPLETION DEPTH: 4.7 m
COMPLETE: 98/11/10

| | | |
|---|---------------------------|-----------------------------|
| 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 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 -frozen LAYERS OF FROZEN ASH & ORGANIC | | | | | | | | | | | 0.0 |
| 1.0 | SILTY GRAVEL WITH SAND (GM) -by drilling action, gravel maybe in layer of frozen, unfrozen, no visible ice. | <input checked="" type="checkbox"/> | 22 | ● | ▲ | | GM | ◆ | ■ | | | 1.0 |
| 2.0 | | | | | | | | | | | | 2.0 |
| 3.0 | END HOLE at 2.6m -1st refusal 2.6m -2nd refusal 1.7m -3rd refusal 0.9m -4th refusal 2.0m (1st refusal may have been rock - others in gravel) | <input checked="" type="checkbox"/> | 23 | | | | | | | | | 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: 2.6 m |
| | REVIEWED BY: | COMPLETE: 98/11/27 |
| | Fig. No: | Page 1 of 1 |

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|--|--------------------------------|-----------------------------|
| 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 | | |

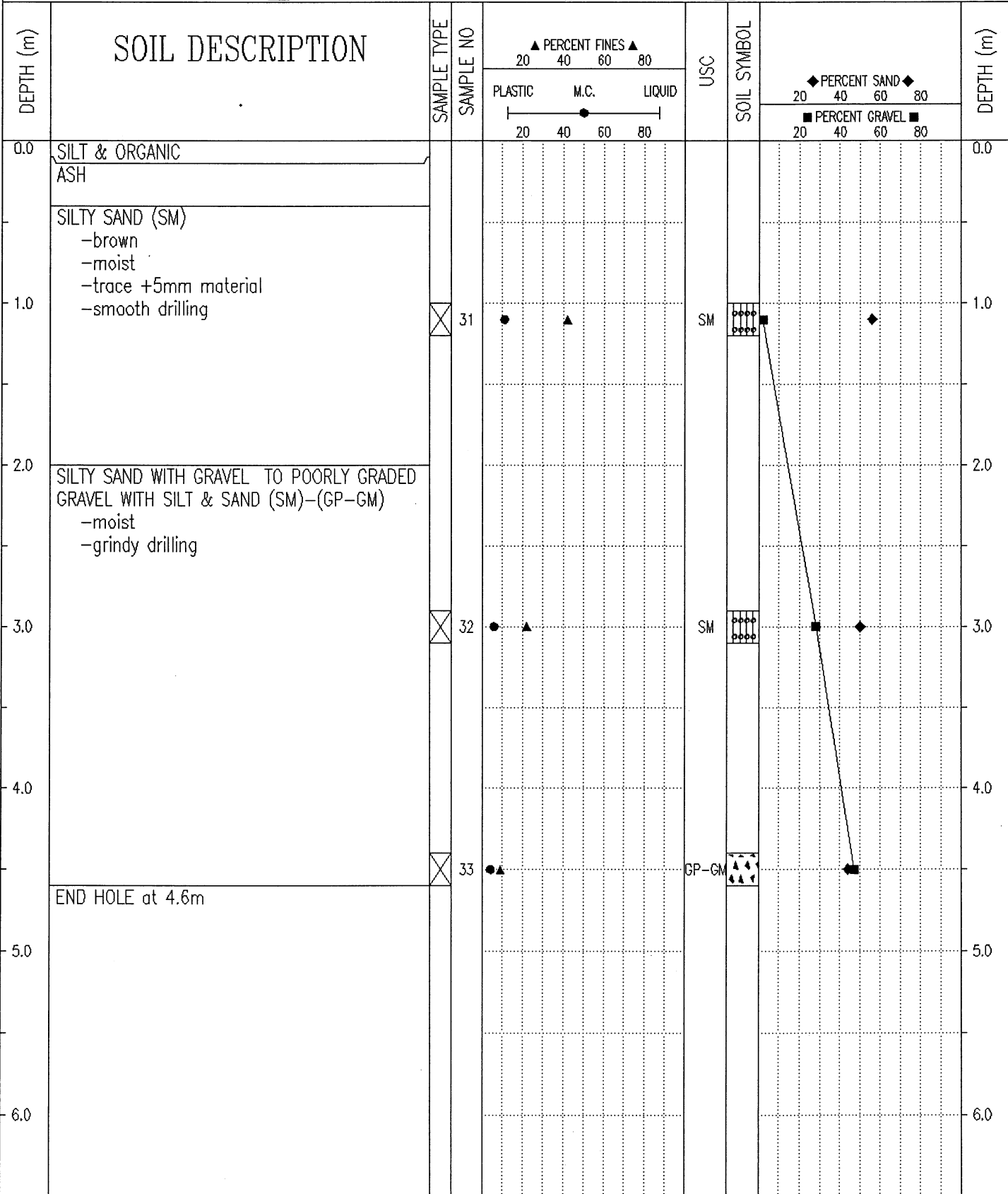


Government of Yukon
Transportation Engineering

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 | | |



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Transportation Engineering

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