

MT. HUNDERE PROPERTY  
TEST PITS AND ACCESS ROAD

105A6/7

MT. HUNDERE PROPERTY  
TEST PITS AND ACCESS ROAD

GMN/EAGLE CLAIMS

105A6/7



09-Aug-90

Mt. Hundere Test Pits & Access Road - Eagle/GMN claims  
 Work done from April 1 to July 31, 1990

Statement of Costs

=====		
<u>Road Access: Contractor - 8585 Yukon Ltd.</u>		
Mobilization/Demobilization		\$35,000
Knockdown and Piling - 112.17 hectares at \$1,525/ha		\$171,059
Grubbing - 106.56 hectares at \$915/ha		\$97,502
Burning - 112.17 hectares at \$610/ha		\$68,424
Equipment rental		
DBH - 34 hours at \$145/hr		\$4,930
966C loader - 3 hours at \$140/hr; 4 hours at \$100/hr		\$820
Delta (offroad) - 32 hours at \$105/hr		\$3,360
Hiab - 7 hours at \$95/hr		\$665
Tractor/lowbed - 3 hours at \$85/hr		\$255
Tractor/float - 1.5 hours at \$100/hr		\$150
-----		
Road Access Subtotal	25 km	\$382,165
=====		
<u>Test Pits: Contractor - 8585 Yukon Ltd.</u>		
Equipment rental		
H-20 PC300L Komatsu Hoe - 454.5 hours at \$140/hr		\$63,630
plus 8 hrs at \$40/hr (moving)		\$320
HC-200C Komatsu Hoe - 8.5 hours at \$125/hr		\$1,063
<u>Test Pits: Contractor - EBA Engineering</u>		
Geotechnical Services		
R. Trimble - 31.5 hours at \$80/hr		\$2,520
R. Trimble - 14 hours at \$85/hr		\$1,190
M. Plaunt - 34.5 hours at \$45/hr		\$1,553
A. Prestone - 20 hours at \$30/hr		\$600
W. Speiss - 10 hours at \$34/hr		\$340
Laboratory testing		\$2,405
Services		\$270
Expenses		\$1,309
-----		
Test Pits Subtotal	94 test pits	\$75,199
=====		
Total		\$457,364
=====		

TRANSMITTAL FORM

M.R. file no.  
 R.M.M.R. file no.  
 Date forwarded  
 13 Aug 90

From Mining Recorder at: Watson Lake

To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

NEW APPLICATION FOR PLACER LEASE TO PROSPECT Name

RENEWAL APPLICATION PLACER LEASE TO PROSPECT Name Lease no.

AFFIDAVIT OF EXPENDITURE ON PLACER LEASE Name Lease no.

SECURITY DEPOSIT

FINANCIAL ABILITY

ASSIGNMENT OF PLACER LEASE NO. From To

GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. Owner

DIAMOND DRILL LOGS Claims Claim sheet no.

QUARTZ ASSESSMENT REPORT Claims Claim sheet no. 105-A-06/07

Type of report: Access Rd + Test Pits Submitted by: Curragh Resources Inc.

Cls. work performed on: Gmn 23, 24, 26 Eagle 28 to 30. \$ req. for ren. application: 8,000.00

FOR Numbering

Pls return card.

[Signature]  
Signature

Date returned

REPLY ACTION

ADDITIONAL WORK FILED 24 AUG 1990

\$ 62,000.<sup>00</sup>

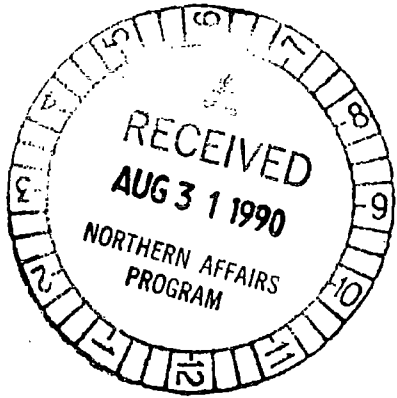
+ 8000 Previously recorded

8,000.<sup>00</sup>

70,000.<sup>00</sup>

[Signature]

Signature

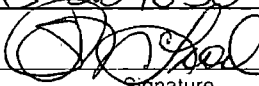


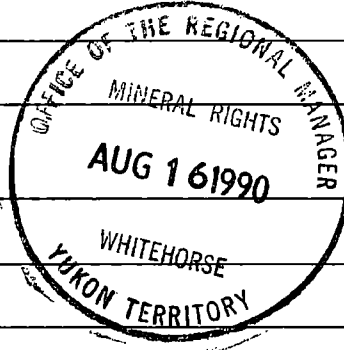


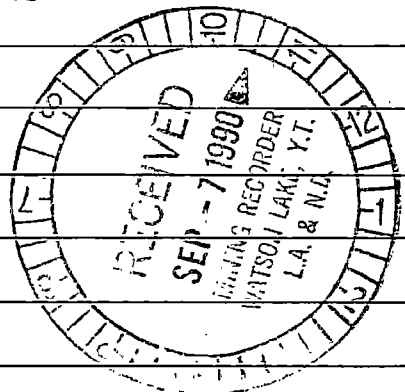


M.R. file no.
R.M.M.R. file no.
Date forwarded <i>13 Aug 90</i>

### TRANSMITTAL FORM

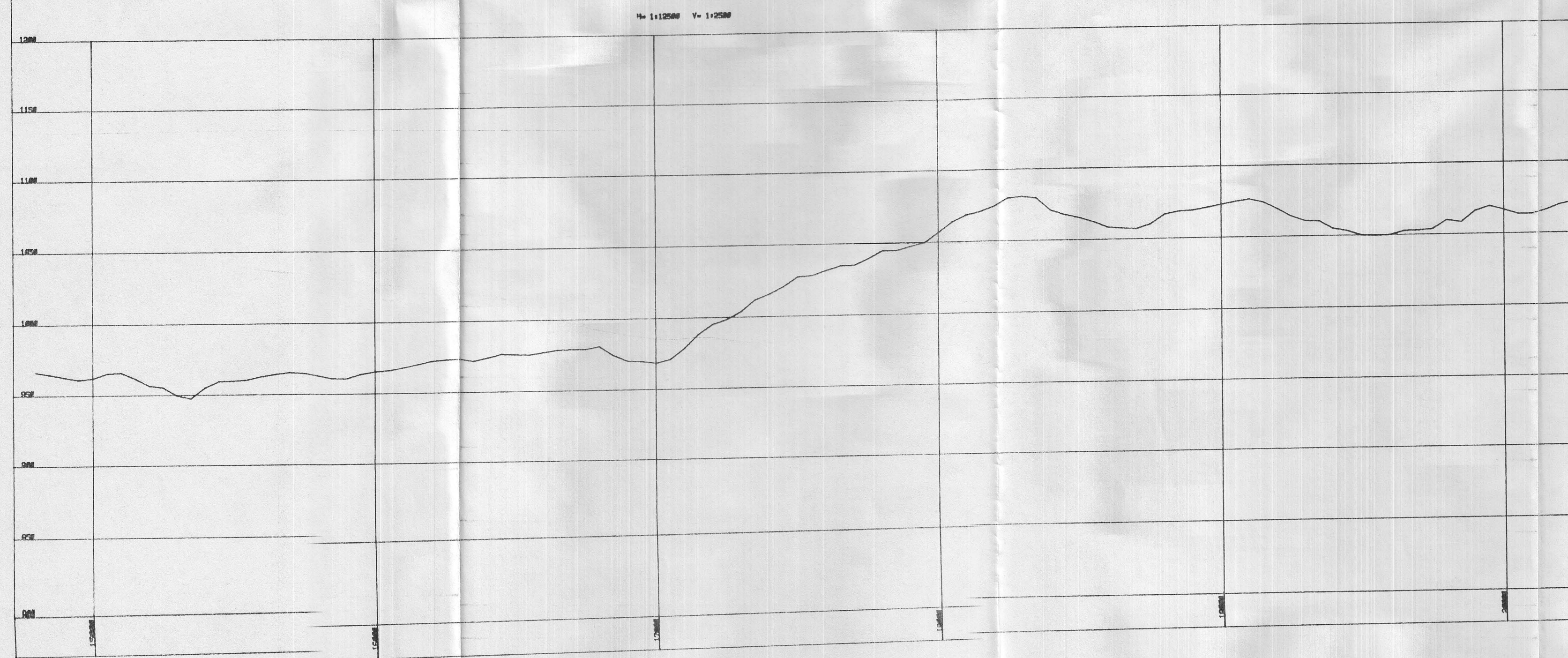
From ► Mining Recorder at: <i>Watson Lake</i>		
To ► Regional Manager, Mineral Rights at Whitehorse, Y.T.		
For action are:		
<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <i>GMN 23 EAGLE</i>	Claim sheet no. <i>105-A-06/07</i>
<i>FOR Numbering</i>	Type of report <i>Access Rd + Test Pits</i>	Submitted by <i>Curragh Resources Inc.</i>
<i>Pls return card.</i>	Cls. work performed on <i>GMN 23,24,23 Eagle, 28 to 30.</i>	\$ req. for ren. application <i>8,000.00</i>
		Signature



REPLY ACTION	Date returned
<div style="text-align: right; font-size: 24px; font-weight: bold; margin-bottom: 20px;">092867</div> 	
Signature	

SUMMARY

A right-of-way averaging 37 metres wide and 25 kilometres in length was machine cleared, piled, burned, and grubbed. Total clearing amounted to 112.7 hectares. Interceptor ditches were excavated to facilitate drainage where required, and temporary culverts were installed at various locations along the route. Ninety-four test pits were excavated. The work was undertaken by 8585 Yukon Ltd. and managed by Yukon Engineering Services. EBA Engineering Consultants Ltd. sampled and logged the excavated test pits, and provided geotechnical support.



H= 1:12500 V= 1:2500

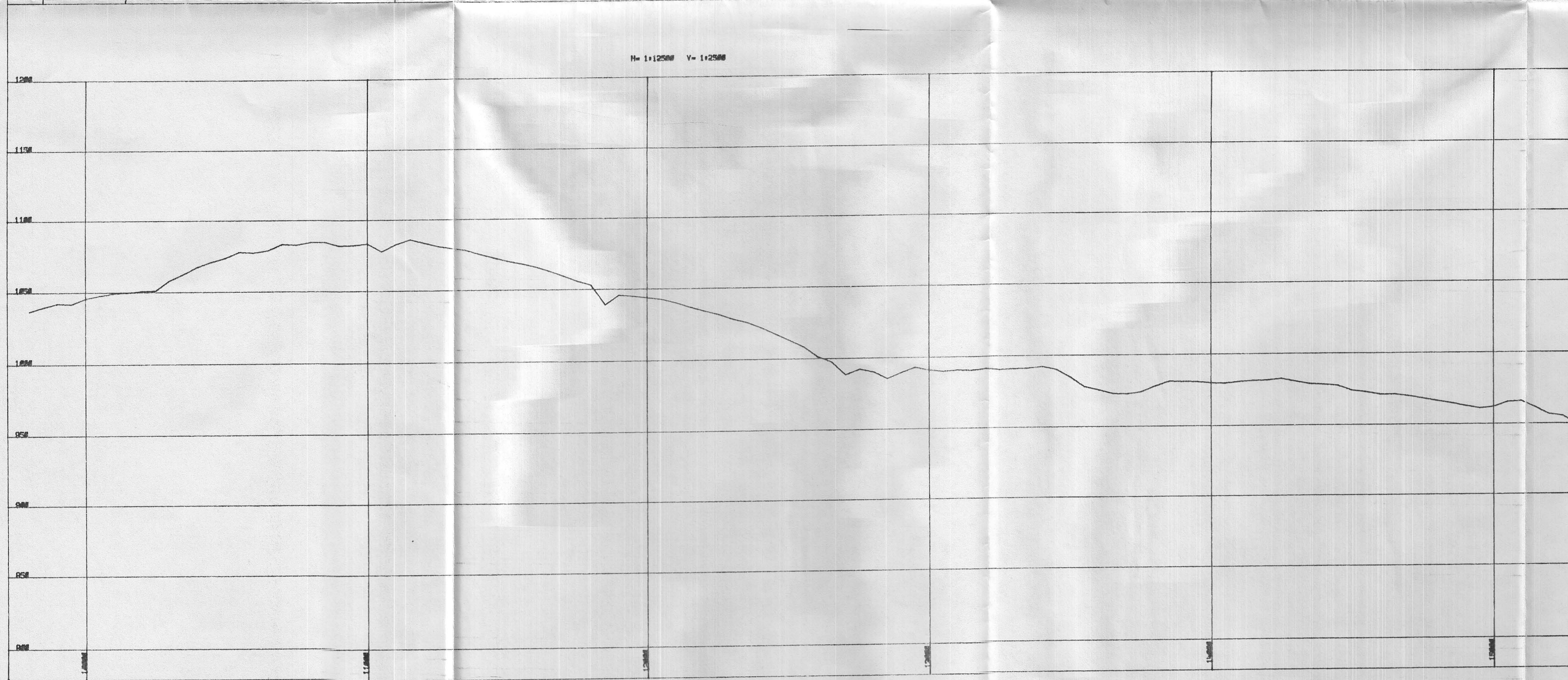
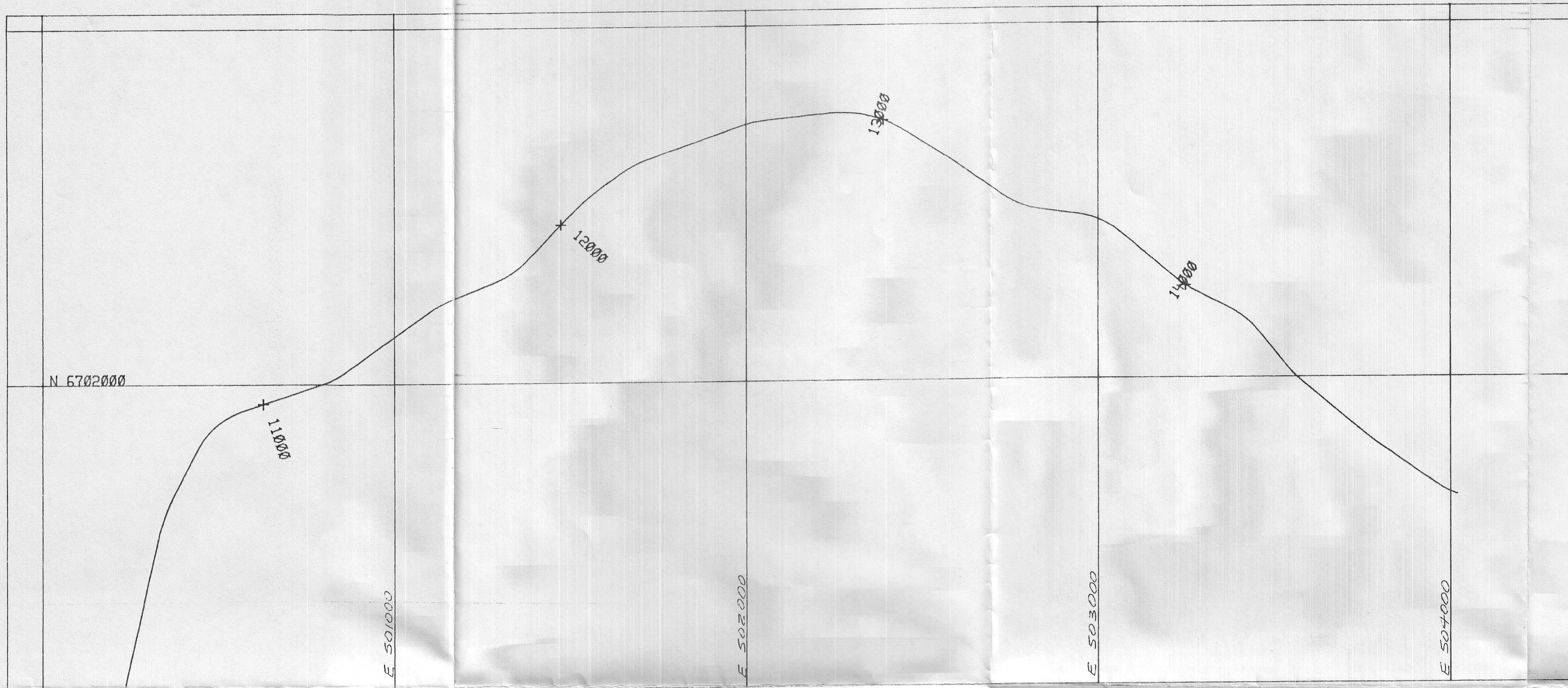
CURRAGH RESOURCES INC.

MT. HUNDERE HAUL ROAD - #4

CLEARING AND GROUND PROFILE

DATE	SCALE	DRAWN by
07-26-1988	1:10000	

YUKON ENGINEERING SERVICES



H= 1:12500 V= 1:2500

CURRAGH RESOURCES INC.

MT. HUNDERE HAUL ROAD - #3

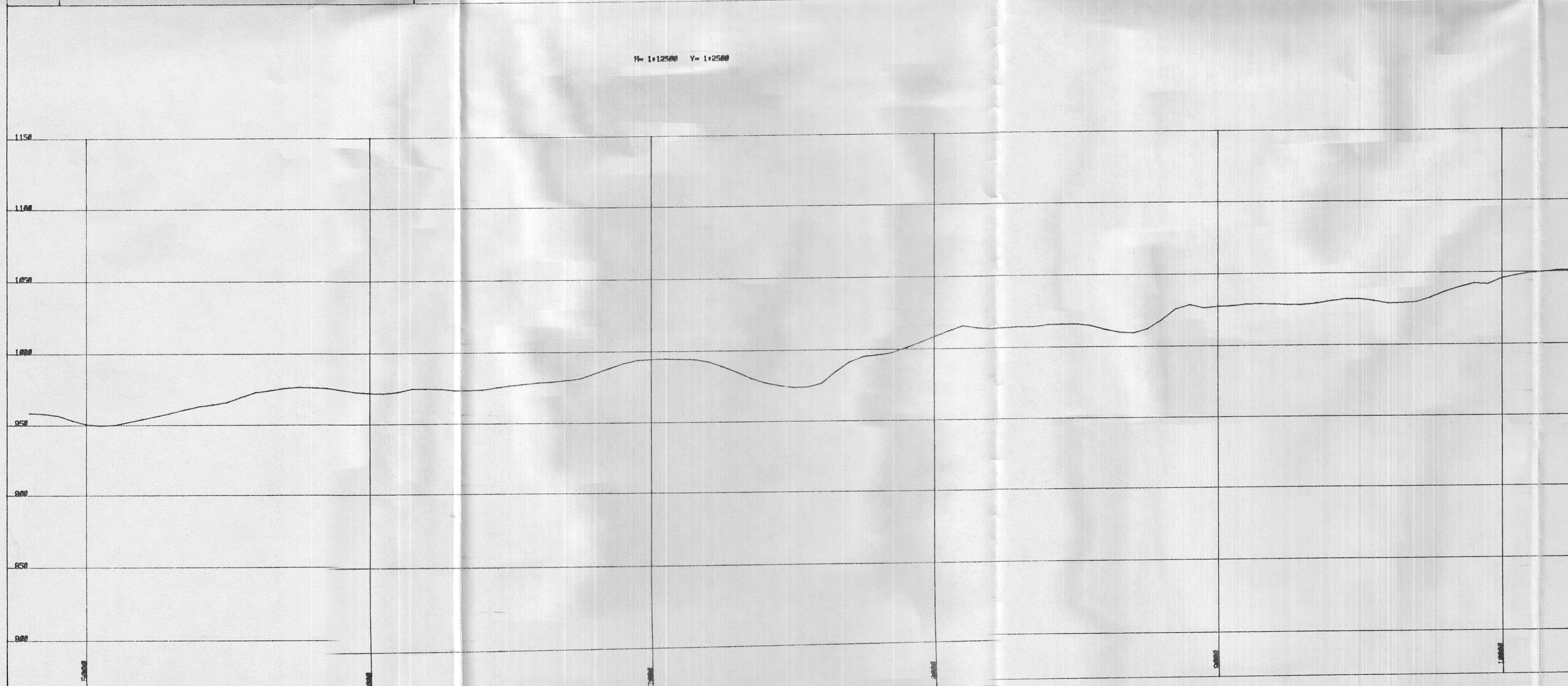
CLEARING AND GROUND PROFILE

DATE #7-25-1998	SCALE 1:10000	DRAWN BY _____
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YUKON ENGINEERING SERVICES



H= 1:12500 V= 1:2500



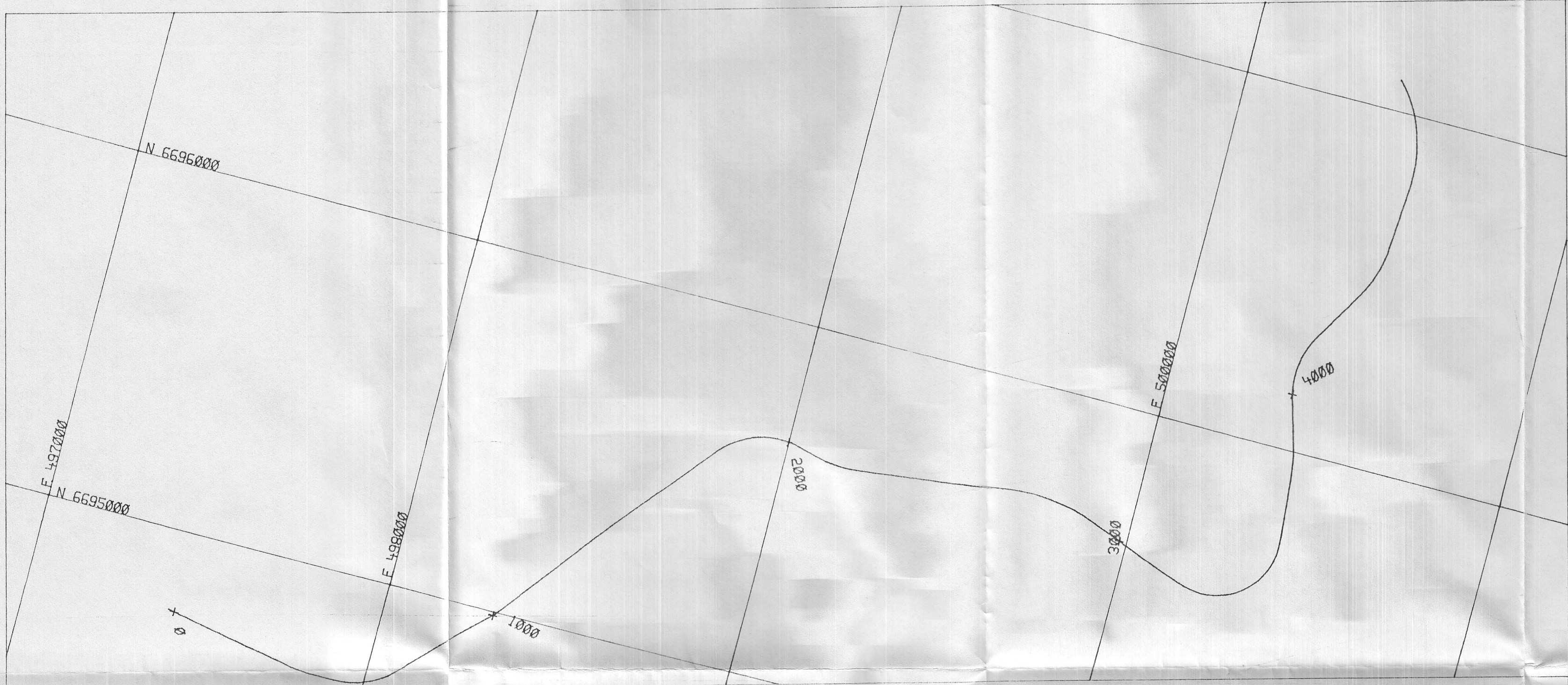
CURRAGH RESOURCES INC.

MT. HUNDERE HAUL ROAD - #2

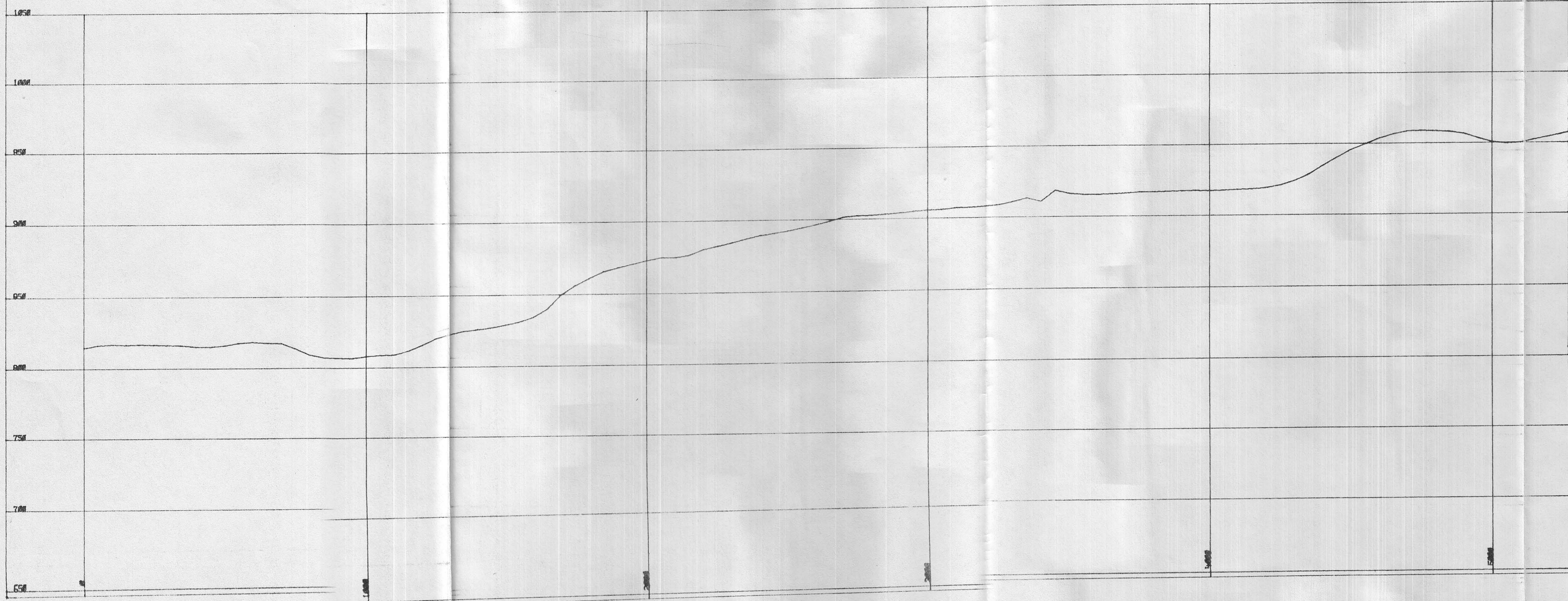
CLEARING AND GROUND PROFILE

DATE	SCALE	DRAWN by
07-25-1998	1:10000	

YUKON ENGINEERING SERVICES



H= 1:12500 Y= 1:2500



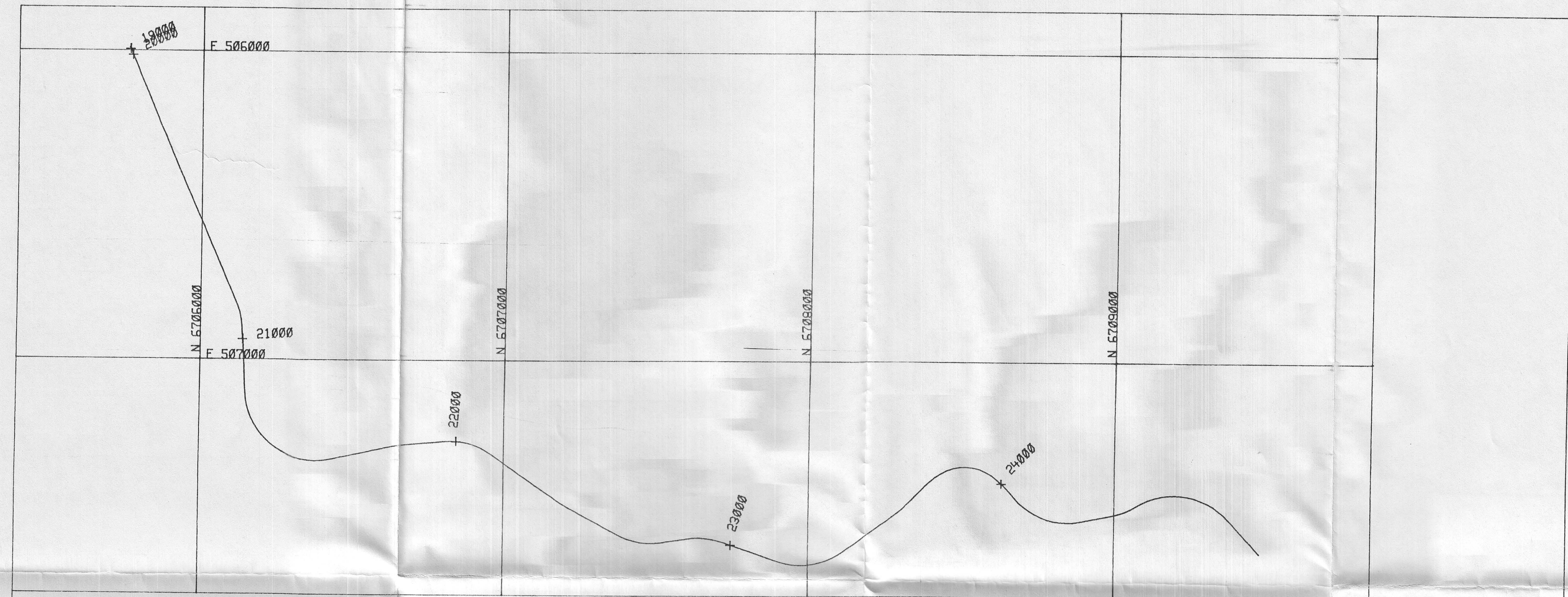
CURRAGH RESOURCES INC.

MT. HUNDERE HAUL ROAD - #1

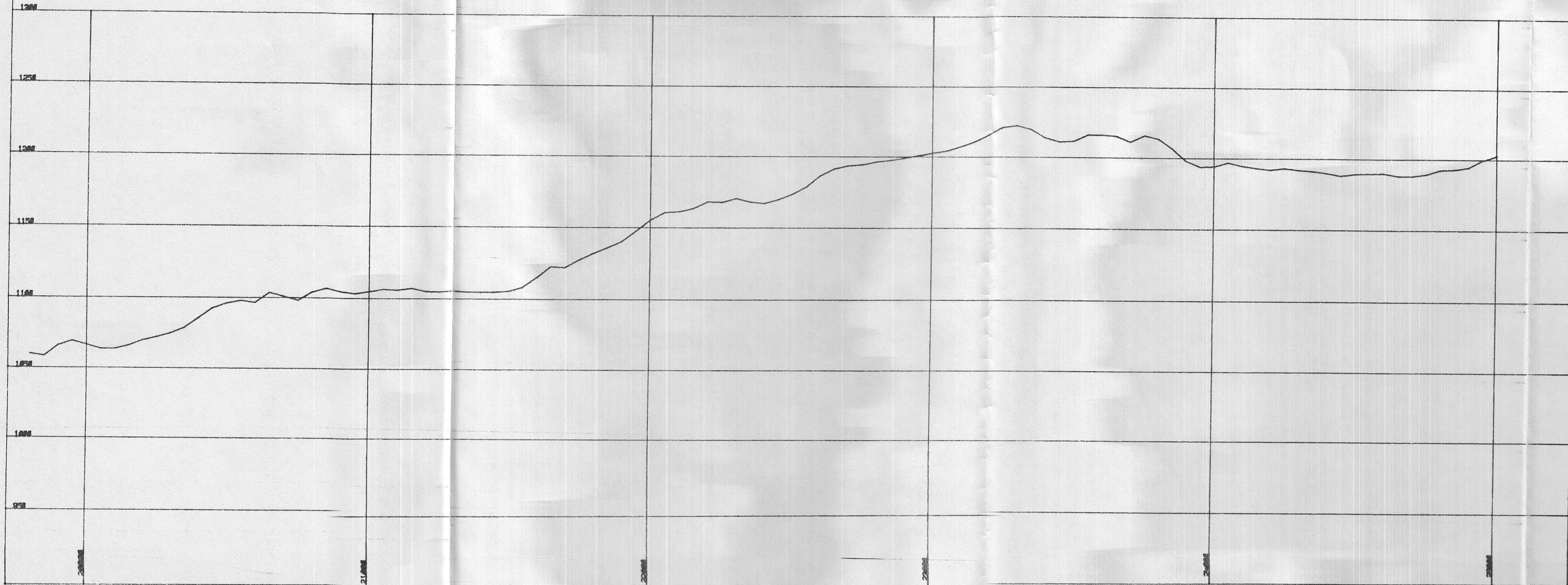
CLEARING AND GROUND PROFILE

DATE	SCALE	DRAWN BY
07-25-1990	1:10000	

YUKON ENGINEERING SERVICES



H= 1:12500 V= 1:2500

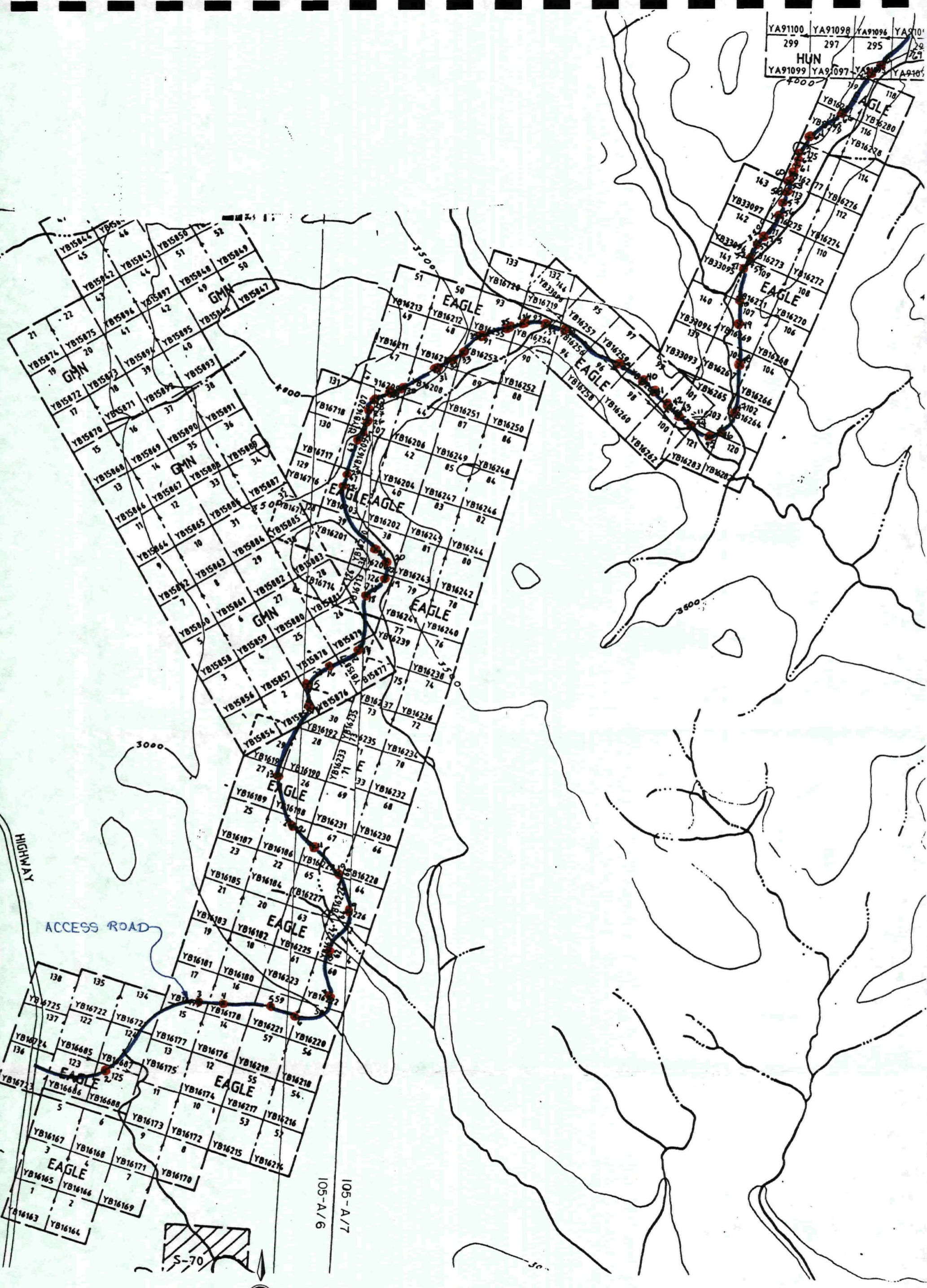


CURRAGH RESOURCES INC.  
 MT. HUNDERE HAUL ROAD - #5  
 CLEARING AND GROUND PROFILE

DATE 07-25-1999	SCALE 1" = 1000'	DRAWN by _____
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YUKON ENGINEERING SERVICES

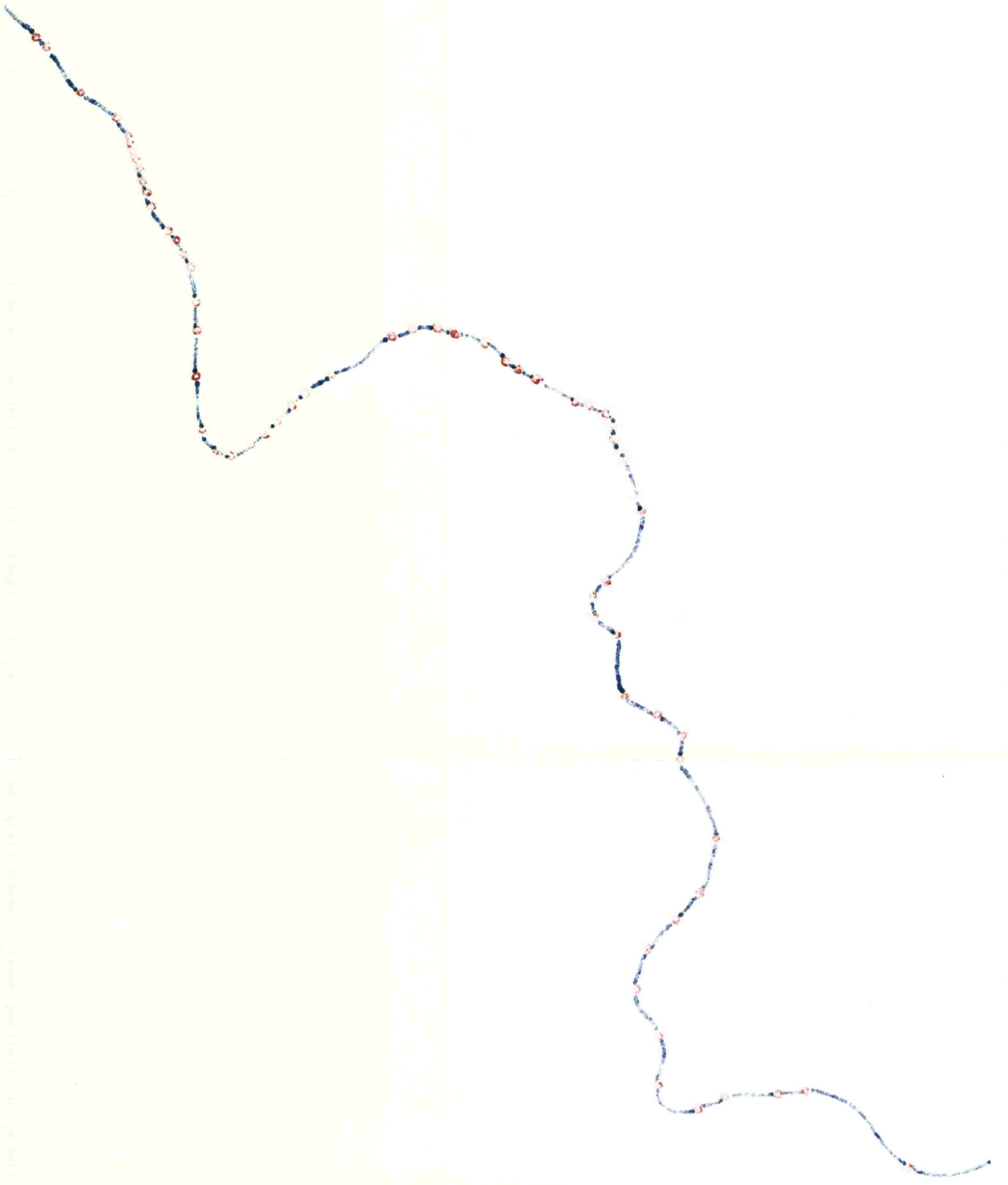
YA91100	YA91098	YA91096	YA9101
299	297	295	29
HUN			
YA91099	YA91097	YA91095	YA9101



X test pit

SCALE: 1 inch = 3,000 feet  
 1,000ft. 500 0 1,000 3,000 5,000ft.

MT. HUNDERE  
 TEST PIT AND ACCESS ROAD LOCATIONS

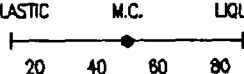


MT HUNDERE PROPERTY  
TEST PIT LOGS  
1990

Record#	BOREHOLE	TOP_HOLE	T_TYPE	C_MERIDIAN	ZONE	N THING	EASTING
1	10314-01	817.500	U		135	8 6694734.00	497661.00
2	10314-02	818.400	U		135	8 6694697.00	497969.00
3	10314-04	880.700	U		135	8 6695648.00	499179.00
4	10314-05	902.300	U		135	8 6695705.00	499689.00
5	10314-06	906.200	U		135	8 6695647.00	499967.00
6	10314-07	915.700	U		135	8 6695641.00	500447.00
7	10314-08	918.000	U		135	8 6696118.00	500354.00
8	10314-09	948.200	U		135	8 6696621.00	500528.00
9	10314-10	958.900	U		135	8 6696998.00	500507.00
10	10314-11	964.700	U		135	8 6697371.00	500109.00
11	10314-12	977.500	U		135	8 6697604.00	499854.00
12	10314-13	975.100	U		135	8 6698038.00	499715.00
13	10314-14	997.400	U		135	8 6698828.00	499744.00
14	10314-15	994.200	U		135	8 6699053.00	499693.00
15	10314-16	993.000	U		135	8 6699326.00	500122.00
16	10314-17	1013.000	U		135	8 6699510.00	500381.00
17	10314-18	1019.600	U		135	8 6699973.00	500563.00
18	10314-19	1025.300	U		135	8 6700192.00	500768.00
19	10314-20	1027.800	U		135	8 6700322.00	500701.00
20	10314-21	1033.200	U		135	8 6700430.00	500540.00
21	10314-22	1038.900	U		135	8 6700904.00	500181.00
22	10314-23	1045.500	U		135	8 6701005.00	500193.00
23	10314-24	1063.200	U		135	8 6701383.00	500273.00
24	10314-25	1067.200	U		135	8 6701419.00	500278.00
25	10314-26	1081.100	U		135	8 6701580.00	500314.00
26	10314-27	1081.900	U		135	8 6701676.00	500365.00
27	10314-28	1088.000	U		135	8 6701769.00	500404.00
28	10314-29	1090.800	U		135	8 6701949.00	500563.00
29	10314-30	1089.500	U		135	8 6702009.00	500777.00
30	10314-31	1069.600	U		135	8 6702220.00	501108.00
31	10314-32	1056.700	U		135	8 6702305.00	501297.00
32	10314-33	1047.600	U		135	8 6702366.00	501390.00
33	10314-34	1033.400	U		135	8 6702580.00	501632.00
34	10314-35	1010.800	U		135	8 6702699.00	501916.00
35	10314-36	996.900	U		135	8 6702732.00	502046.00
36	10314-37	998.000	U		135	8 6702728.00	502333.00
37	10314-38	993.100	U		135	8 6702672.00	502495.00
38	10314-39	982.500	U		135	8 6702387.00	503120.00
39	10314-03	868.400	U		135	8 6695669.00	498880.00
40	10314-40	980.500	U		135	8 6702194.00	503350.00
41	10314-41	989.900	U		135	8 6702120.00	503449.00
42	10314-42	977.200	U		135	8 6701962.00	503611.00
43	10314-43	980.500	U		135	8 6701894.00	503737.00
44	10314-44	966.700	U		135	8 6701767.00	503878.00
45	10314-45	963.000	U		135	8 6701648.00	504123.00
46	10314-46	960.200	U		135	8 6701669.00	504191.00
47	10314-47	959.400	U		135	8 6701874.00	504362.00
48	10314-48	970.000	U		135	8 6702449.00	504378.00
49	10314-49	979.000	U		135	8 6702893.00	504354.00
50	10314-50	982.200	U		135	8 6703212.00	504367.00
51	10314-51	999.100	U		135	8 6703564.00	504358.00
52	10314-52	997.500	U		135	8 6703593.00	504393.00
53	10314-53	1004.600	U		135	8 6703628.00	504406.00
54	10314-54	1019.600	U		135	8 6703755.00	504486.00
55	10314-55	1028.000	U		135	8 6703851.00	504560.00
56	10314-56	1042.100	U		135	8 6704084.00	504707.00
57	10314-57	1048.200	U		135	8 6704227.00	504752.00
58	10314-58	1063.300	U		135	8 6704355.00	504780.00
59	10314-59	1070.700	U		135	8 6704422.00	504776.00
60	10314-60	1082.200	U		135	8 6704527.00	504787.00
61	10314-61	1092.200	U		135	8 6704646.00	504784.00
62	10314-62	1088.100	U		135	8 6704701.00	504791.00
63	10314-63	1071.700	U		135	8 6704757.00	504836.00

64	10314-64	1066.500 U	135	8 6704976.00	505099.00
65	10314-65	1077.400 U	135	8 6705195.00	505294.00
66	10314-66	1062.200 U	135	8 6705363.00	505464.00
67	10314-67	1062.300 U	135	8 6705686.00	505807.00
68	10314-68	1056.900 U	135	8 6705680.00	505828.00
69	10314-69	1071.400 U	135	8 6705853.00	506181.00
70	10314-70	1098.600 U	135	8 6705978.00	506389.00
71	10314-71	1107.800 U	135	8 6706014.00	506460.00
72	10314-72	1110.800 U	135	8 6706039.00	506602.00
73	10314-73	1114.200 U	135	8 6706086.00	506611.00
74	10314-74	1108.200 U	135	8 6706087.00	506750.00
75	10314-75	1111.200 U	135	8 6706158.00	506918.00
76	10314-76	1104.000 U	135	8 6706121.00	507044.00
77	10314-77	1179.100 U	135	8 6707087.00	507347.00
78	10314-78	1168.400 U	135	8 6707106.00	507438.00
79	10314-79	1170.500 U	135	8 6707215.00	507476.00
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82	10314-82	1198.000 U	135	8 6707615.00	507625.00
83	10314-83	1202.000 U	135	8 6707710.00	507610.00
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85	10314-85	1220.400 U	135	8 6707964.00	507659.00
86	10314-86	1217.800 U	135	8 6708124.00	507594.00
87	10314-87	1217.000 U	135	8 6708275.00	507500.00
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89	10314-89	1206.000 U	135	8 6708435.00	507390.00
90	10314-90	1194.000 U	135	8 6708510.00	507360.00
91	10314-91	1200.400 U	135	8 6708645.00	507394.00
92	10314-92	1199.600 U	135	8 6708717.00	507460.00
93	10314-93	1195.000 U	135	8 6708825.00	507505.00
94	10314-94	1192.000 U	135	8 6708975.00	507475.00
95	10314-95	1191.300 U	135	8 6709114.00	507453.00

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-01
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION	PERCENT GRAVEL	DEPTH (ft)
					20 40 60 80	20 40 60 80	
					PLASTIC      M.C.      LIQUID 	● PERCENT SAND ● 20 40 60 80 ▲ PERCENT FINES ▲ 20 40 60 80 ◆ PERCENT CLAY ◆ 20 40 60 80	
0.0				ORGANIC ROOT MAT			0.0
				ORGANIC SILT(OL)-rootlets throughout, black			
				SAND(TILL)(SM)-gravelly, silty, some clay, gravel is angular up to 25 mm, moist to wet, firm, medium plastic, light olive brown			2.0
1.0				GRAVEL AND SAND(TILL)(GM)-silty, trace of clay, cobbles and occasional boulders throughout up to 800 mm maximum size, moist, dense, medium olive brown			4.0
2.0							6.0
3.0				END OF TEST PIT AT 3.0 m NOTE: -Sample taken from spoil pile -Moisture Content: 8.0%			10.0
4.0							14.0
5.0							16.0

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.0 m	COMPLETE 90/04/25	
LOGGED BY MCP	DWG NO.	Page 1 of 1

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-02
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT											0.0
				ORGANIC SILT(OL)-rootlets throughout, dark brown											
				SILT(ML)-some clay, trace of fine gravel, wet, firm, light olive											
	1		SM	SAND(TILL)(SM)-gravelly, silty, some clay, moist to wet, medium plastic, light olive brown											2.0
-1.0				GRAVEL AND SAND(TILL)(GM)-silty, trace of clay, cobbles and occasional boulder throughout, moist, dense, medium olive brown											4.0
-2.0															6.0
															8.0
	2		SM	SAND(SM)-gravelly, some silt, damp, medium brown											10.0
-3.0				- finer below 3.2 m											
				END OF TEST PIT AT 3.5 m											12.0
															14.0
															16.0
5.0															

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.5 m	COMPLETE 90/04/25
LOGGED BY MCP	DWG NO.
	Page 1 of 1

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-03
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION	PERCENT GRAVEL	DEPTH (ft)
					20 40 60 80	20 40 60 80	
					PLASTIC      M.C.      LIQUID  -----●-----  20      40      60      80	● PERCENT SAND ● 20      40      60      80 ▲ PERCENT FINES ▲ 20      40      60      80 ◆ PERCENT CLAY ◆ 20      40      60      80	
0.0				NOT EXCAVATED AS OF 90/04/25			0.0
-1.0							-1.0
-2.0							-2.0
-3.0							-3.0
-4.0							-4.0
-5.0							-5.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH * m LOGGED BY MCP	COMPLETE 90/04/25 DWG NO. Page 1 of 1
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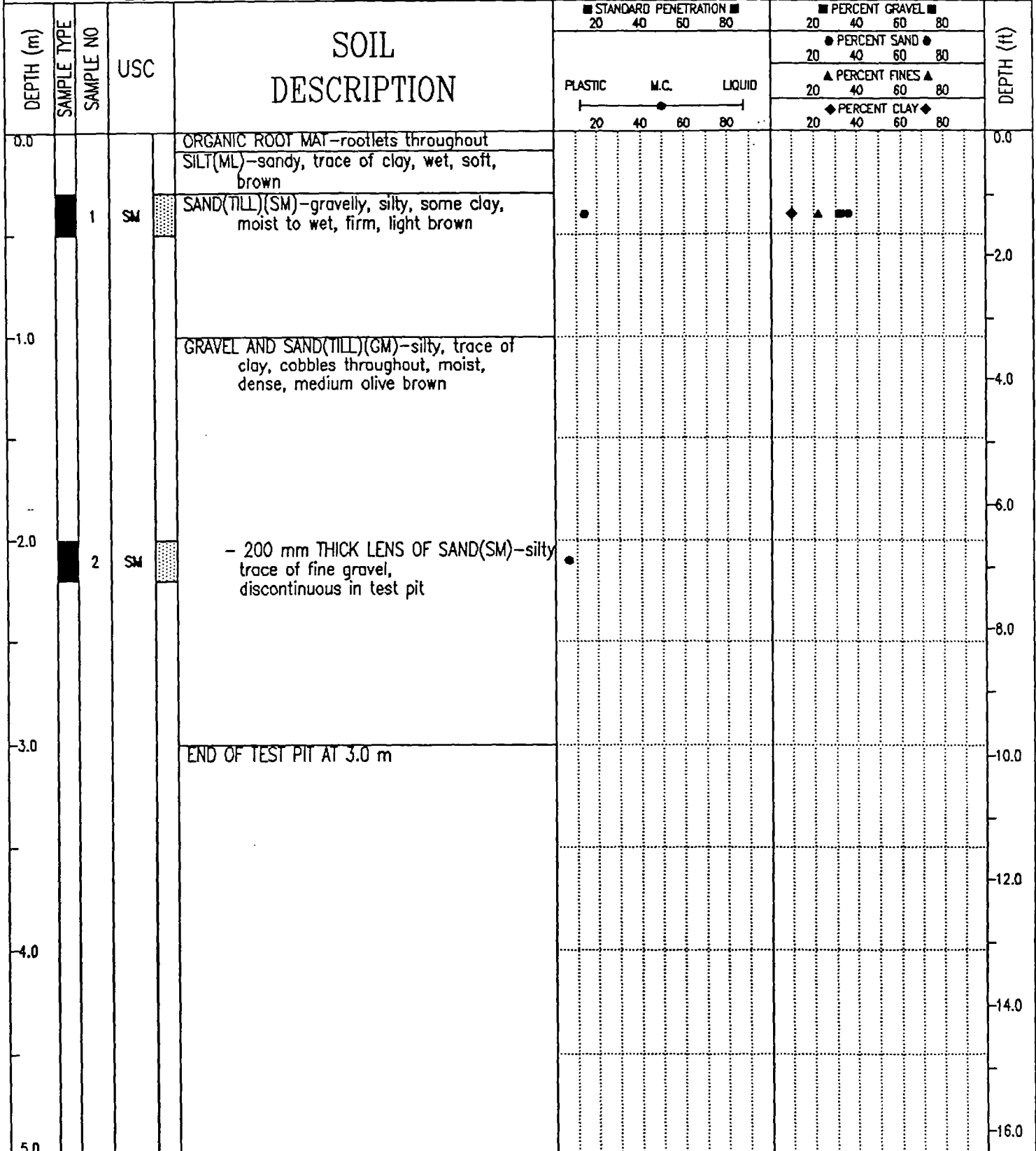
MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-04
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			PERCENT CLAY			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT-black															0.0	
				SILT (ML)-trace of clay, wet, soft, brown																
				SAND (TILL) (SM)-gravelly, silty, some clay, moist, medium plastic, firm, light brown																
1.0				GRAVEL AND SAND (TILL) (GM)-silty, trace of clay, cobbles and occasional boulder throughout, moist, dense, medium olive brown															2.0	
																			4.0	
2.0																			6.0	
																			8.0	
3.0																			10.0	
																			12.0	
4.0				END OF TEST PIT AT 4.0 m NOTE: -Sample taken from spoil pile -Moisture Content: 5.5%															14.0	
5.0																			16.0	

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COMPLETION DEPTH 4.0 m	COMPLETE 90/04/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-05
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		



EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.0 m	COMPLETE 90/04/25
	LOGGED BY MCP	DWG NO.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44, Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-09

Borehole Number: 10314-05

Depth: 0.5 m

Soil Description: SAND(TILL)SM)-gravelly, silty, trace to some clay

Cu: \_\_\_\_\_

Cc: \_\_\_\_\_

Natural Moisture Content: 14.2 %

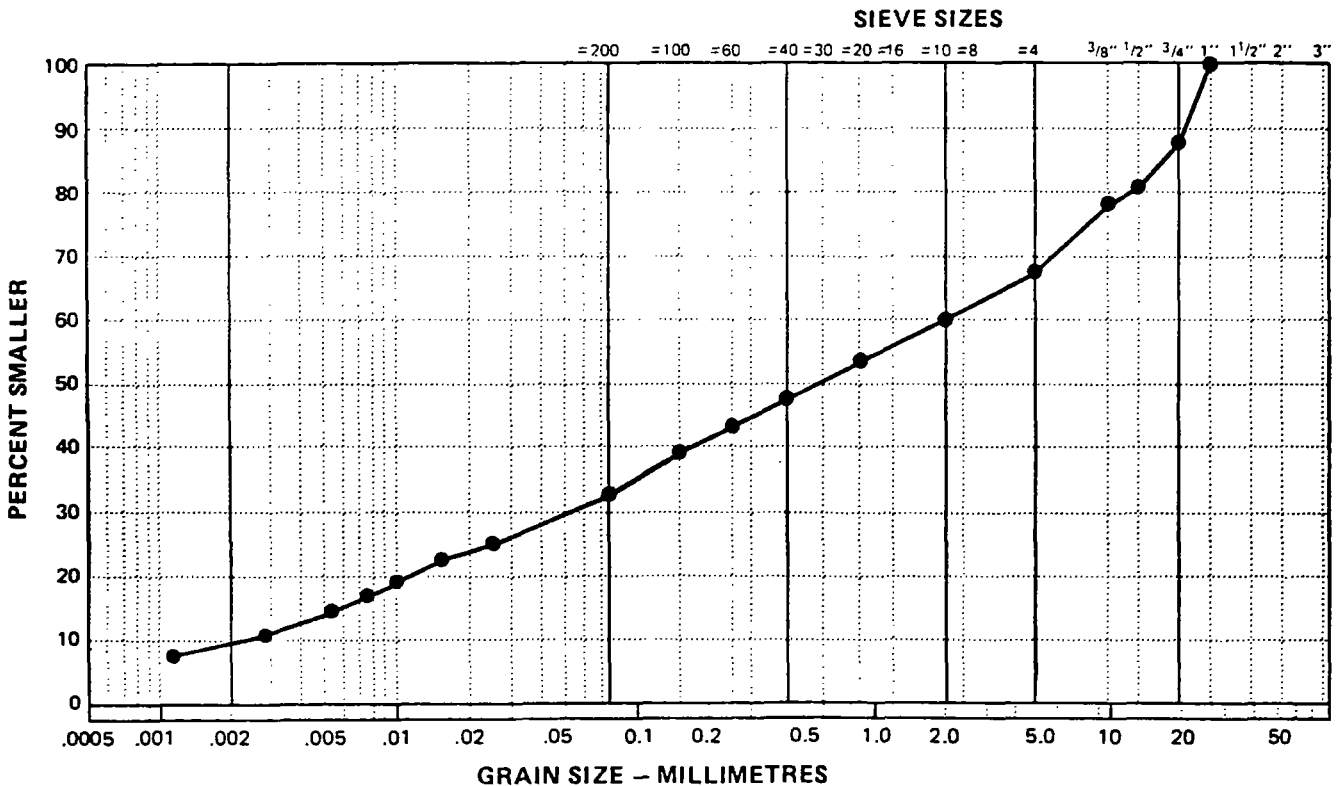
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	
1"	100
3/4"	87
1/2"	81
3/8"	78
No. 4	68
No. 10	60
No. 20	53
No. 40	47
No. 60	43
No. 100	39
No. 200	32

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-06
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

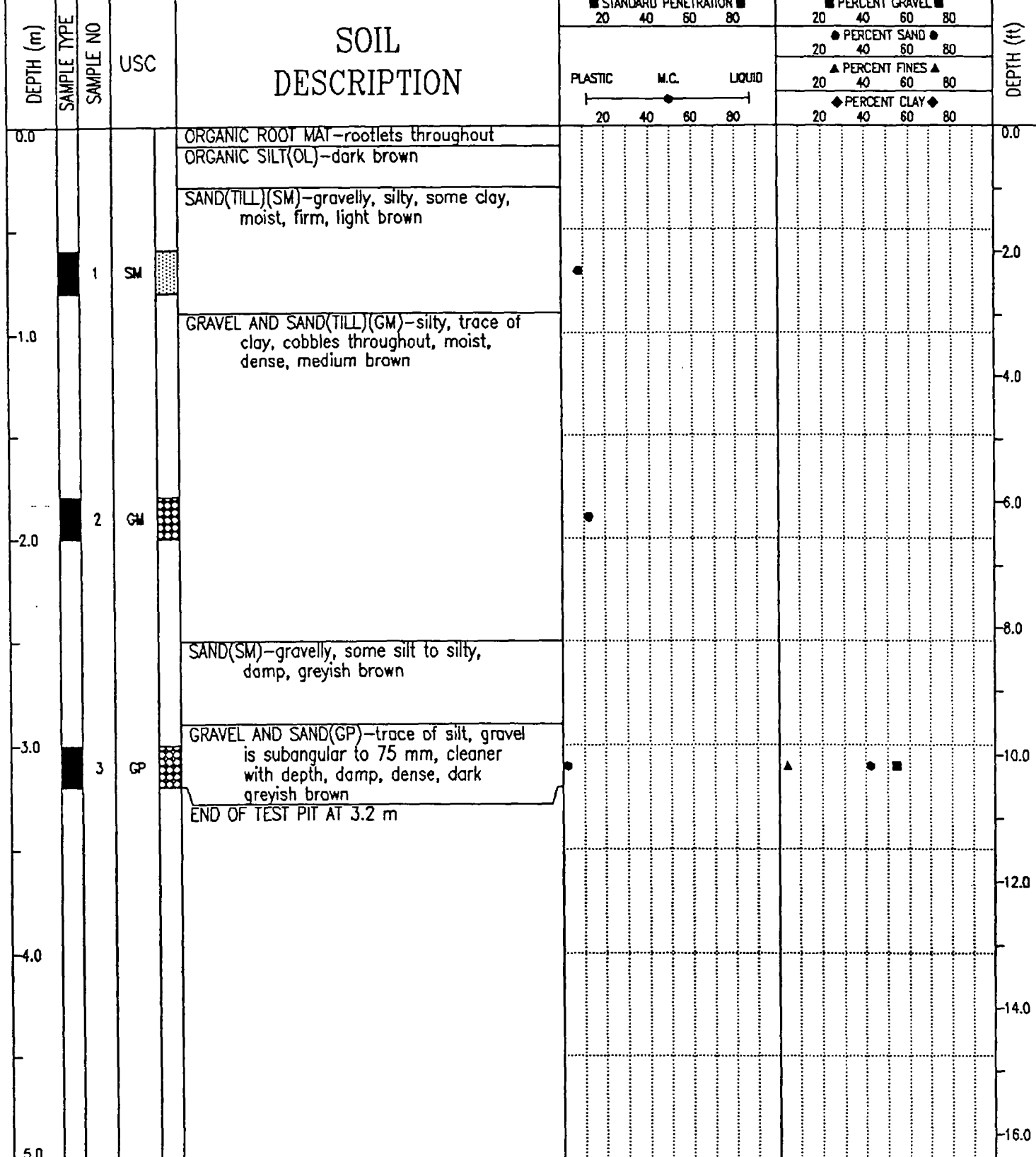
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT - rootlets throughout ORGANIC SILT(OL) - dark brown to black SAND(TILL)(SM) - gravelly, silty, some clay, moist, light olive brown									0.0
1.0				GRAVEL AND SAND(TILL)(GM) - silty, trace of clay, cobbles throughout, moist, dense, medium olive brown  - becomes brown  - returns to olive brown									1.0
3.0				END OF TEST PIT AT 3.0 m NOTE: - Sample taken from spoil pile - Moisture Content: 9.5%									3.0

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-07
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT-rootlets throughout									0.0
				ORGANIC SILT(OL)-dark brown									
				SILT(ML)-sandy, trace of clay, wet, soft, medium brown									
	1		SM	SAND(TILL)(SM)-gravelly, silty, some clay, moist to wet, firm, light brown									
				GRAVEL AND SAND(TILL)(GM)-silty, trace of clay, cobbles throughout, moist, dense, medium olive brown									
				- water at 2.8 m (seasonal runoff)									
				END OF TEST PIT AT 3.2 m									
				NOTE: -Second sample taken from spoil pile									
				- Moisture Content: 4.9%									

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-08
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)

SAMPLE TYPE  GRAB SAMPLE  NO RECOVERY  STANDARD PEN.  75 mm SPDOON  75 mm CRREL  100 mm CRREL



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COMPLETION DEPTH 3.2 m	COMPLETE 90/04/25
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44, Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-09

Borehole Number: 10314-08

Depth: 3.2 m

Soil Description: GRAVEL AND SAND(GP)-trace of silt

Cu: 34

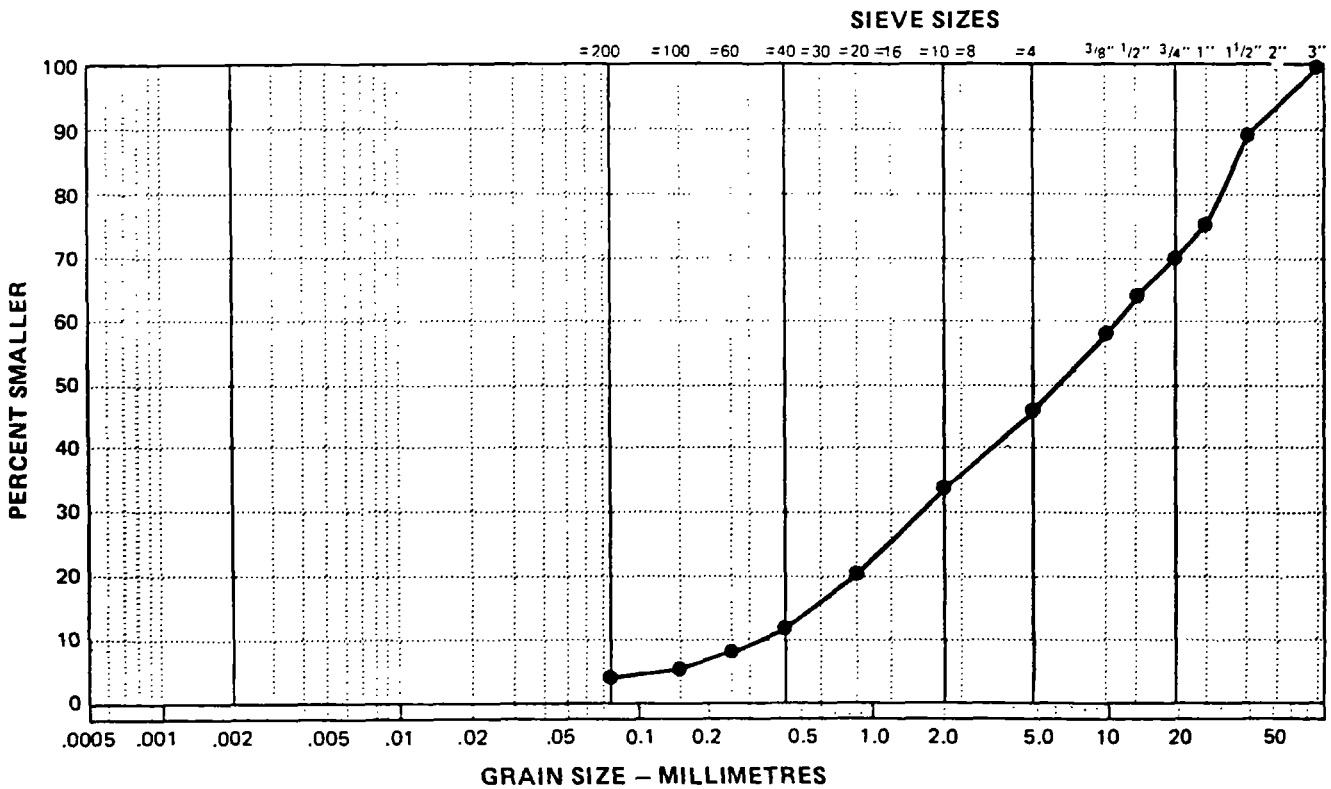
Cc: 0.8

Natural Moisture Content: 2.1 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	88
1"	75
3/4"	70
1/2"	64
3/8"	58
No. 4	46
No. 10	33
No. 20	21
No. 40	12
No. 60	7
No. 100	5
No. 200	4

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Tested in accordance with ASTM D422 unless otherwise noted.



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-09
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT—rootlets throughout ORGANIC SILT(OL)—dark brown											0.0
				SILT(ML)—some sand, some clay, wet, soft, medium brown											
	1		ML	SAND(TILL)(ML)—gravelly, silty, some clay, moist, firm, light brown											2.0
-1.0				GRAVEL AND SAND(TILL)(GM)—silty, trace of clay, moist, dense, medium olive brown											4.0
				- thin discontinuous sand lens from 1.6 m to 1.8 m at west end of test pit											6.0
-2.0	2		GM												8.0
															10.0
-3.0	3		GM												12.0
				BEDROCK—badly weathered and frost shattered											14.0
-4.0				END OF TEST PIT AT 4.0 m											16.0
5.0															

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COMPLETION DEPTH 4.0 m	COMPLETE 90/04/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-10
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				DEPTH (ft)	
					20	40	80	20	40	60	80		
					PLASTIC	M.C.	LIQUID						
					20	40	60	80					
								PERCENT SAND					
								20	40	60	80		
								PERCENT FINES					
								20	40	60	80		
								PERCENT CLAY					
								20	40	60	80		
0.0				ORGANIC ROOT MAT									0.0
				SILT(ML)-sandy, trace of clay, moist to wet, medium brown									
				SAND(TILL)(SM)-gravelly, silty, some clay, moist, firm, light brown									
1.0		1	GM	GRAVEL AND SAND(TILL)(GM)-silty, trace of clay, moist, dense, medium olive brown									4.0
2.0				BEDROCK-frost shattered									8.0
3.0				END OF TEST PIT AT 2.5 m NOTE: -One sample taken at spoil pile -Moisture Content: 5.6%									10.0
4.0													14.0
5.0													16.0

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COMPLETION DEPTH 2.5 m

COMPLETE 90/04/25

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DWG NO.

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-11
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		DEPTH (ft)
					20	40	60	80	
0.0				ORGANIC ROOT MAT					0.0
				SILT (ML) - sandy, trace of gravel, trace of clay, moist to wet, medium brown					
				SAND (TILL) (SM) - gravelly, silty, some clay, moist to wet, firm, light brown					
1.0	1	SM							
				GRAVEL AND SAND (TILL) (GM) - silty, trace of clay, gravel is subangular to angular up to 150 mm, moist, dense, medium olive brown					
2.0									
3.0	2	GM							
				END OF TEST PIT AT 3.1 m					
4.0									
5.0									

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.1 m	COMPLETE 90/04/25
	LOGGED BY MCP	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-12
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				PERCENT SAND				PERCENT FINES				PERCENT CLAY				DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT																			0.0		
				ORGANIC SILT(OL)-dark brown																					
				SAND(TILL)(SM)-gravelly, some clay, moist to wet, dense, medium olive grey																					
				- water table 0.7 m (surface water drained into hole)																					
1.0				BEDROCK-weathered and frost shattered																			1.0		
				END OF TEST PIT AT 1.1 m																					
				NOTE: -Sample taken from spoil pile																					
				-Moisture Content: 11.7%																					
2.0																							2.0		
3.0																							3.0		
4.0																							4.0		
5.0																							5.0		

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 1.1 m	COMPLETE 90/04/25
	LOGGED BY MCP	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-13
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				DEPTH (ft)											
					20	40	60	80	20	40	60		80										
					PLASTIC			PERCENT SAND				PERCENT FINES				PERCENT CLAY							
					M.C.			20				40				60				80			
					LIQUID			20				40				60				80			
0.0				ORGANIC ROOT MAT																			
				ORGANIC SILT(OL)-dark brown																			
		1	SM	SAND(TILL)(SM)-gravelly, silty, some clay, occasional cobble to 150 mm, moist, dense																			
-1.0				BEDROCK-badly weathered, frost shattered																			
				END OF TEST PIT AT 1.2 m																			
-2.0																							
-3.0																							
-4.0																							
-5.0																							

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 1.2 m	COMPLETE 90/04/25	
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MT. HUNDERE ACCESS ROAD		CLIENT: YUKON ENGINEERING SERVICES		BOREHOLE No. 10314-14									
km 44 - CAMPBELL HIGHWAY		DRILL RIG: KOMATSU TRACKED BACKHOE		Project No: 0201-10314									
NORTH OF WATSON LAKE, YUKON		TM ZONE: - N - E -		ELEVATION 0.00 (m)									
SAMPLE TYPE		<input type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL	<input type="checkbox"/> 100 mm CRREL						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)
					20	40	60	80	20	40	60	80	
					PLASTIC M.C. LIQUID								
					20 40 60 80				20 40 60 80				
0.0				ORGANIC ROOT MAT									0.0
				SILT(ML)-sandy, trace of gravel, trace of clay, moist, medium brown									
				SAND(TILL)(SM)-gravelly, silty, some clay, moist, firm, light brown									-2.0
1.0		1	GM	GRAVEL AND SAND(TILL)(GM)-silty, trace of clay, occasional cobble, gravel is angular to subrounded, moist, dense, medium olive brown									-4.0
-2.0		2	GM										-8.0
-3.0				END OF TEST PIT AT 3.0 m									-10.0
4.0													-14.0
5.0													-16.0
EBA Engineering Consultants Ltd. Whitehorse, Yukon					COMPLETION DEPTH 3.0 m			COMPLETE 90/04/25					
					LOGGED BY MCP			DWG NO.			Page 1 of 1		

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-15
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				PERCENT SAND				PERCENT FINES				PERCENT CLAY				DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT																			0.0	
				SILT(ML)-sandy, trace of clay, rootlets throughout																				
				SILT(ML)-some clay, trace of fine sand, moist, light olive																				
				SAND(TILL)(SM)-gravelly, silty, some clay, occasional angular cobble to 200 mm, moist, very dense, dark olive grey																				
1.0		1	SM																					
2.0																								
3.0																								
4.0																								
5.0																								

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COMPLETION DEPTH 3.0 m

COMPLETE 9D/04/25

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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 - Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-06

Borehole Number: 10314-15

Depth: 1.0 m

Soil Description: GRAVEL AND SAND(TILL)(GM)-silty, trace of clay

Cu: \_\_\_\_\_

Cc: \_\_\_\_\_

Natural Moisture Content: 7.1 %

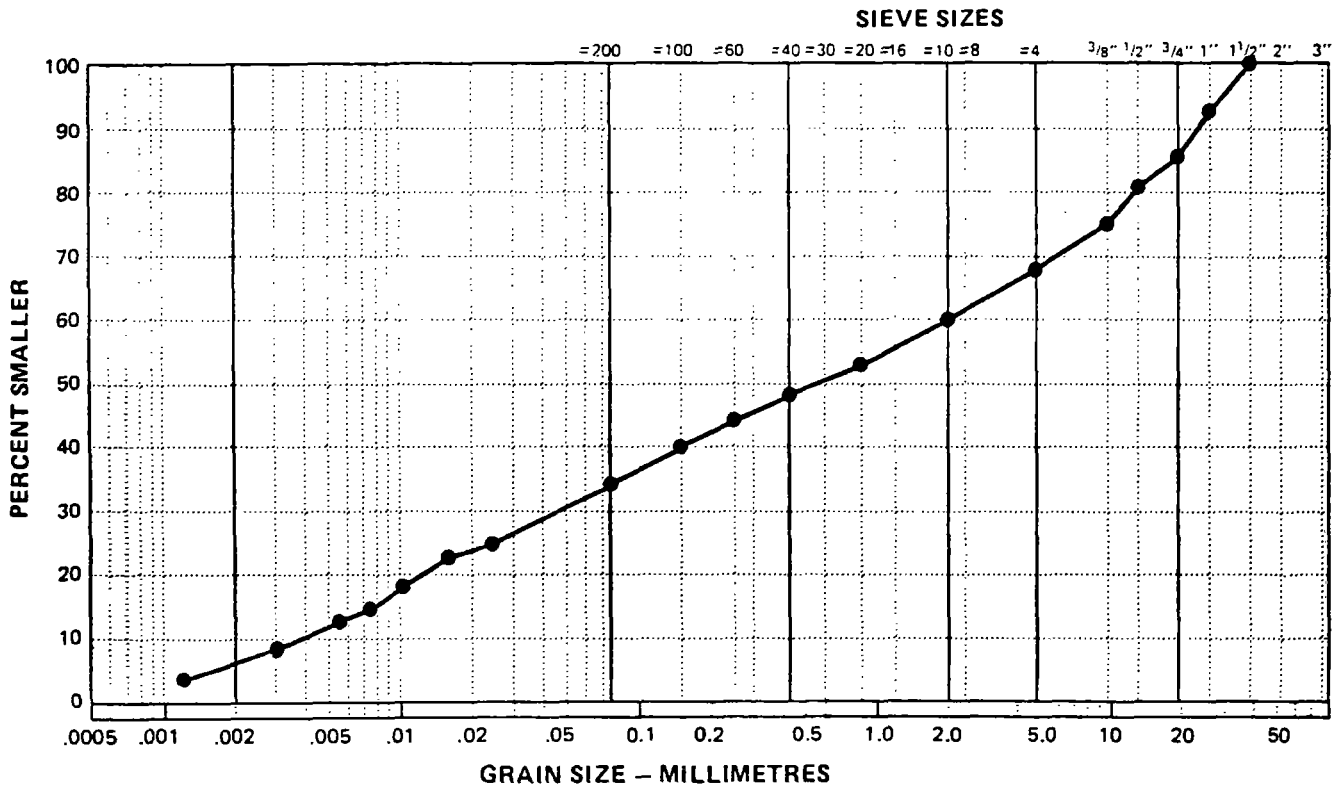
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	93
3/4"	86
1/2"	81
3/8"	75
No. 4	67
No. 10	60
No. 20	53
No. 40	48
No. 60	44
No. 100	40
No. 200	34

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Tested in accordance with ASTM D422 unless otherwise noted.



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-16
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT									0.0
				SILT(ML)-sandy, some clay, trace of gravel and clay, moist, medium brown									
				SAND(TILL)(SM)-gravelly, silty, some clay, firm, medium olive brown									
1.0				GRAVEL AND SAND(TILL)(GM)-silty, trace of clay, occasional cobble to 150 mm, gravel is subangular to angular, moist, dense, dark olive brown									4.0
2.0													8.0
3.0				- water level in test pit (seasonal runoff)									10.0
4.0				END OF TEST PIT AT 3.5 m NOTE: -Sample taken from spoil pile -Moisture Content: 7.3%									12.0
5.0													16.0

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COMPLETION DEPTH 3.5 m

COMPLETE 90/04/25

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DWG NO.

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-17
km 44 - CAMPBELL HIGHWAY	DRILL RIG: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	TM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT OVER ORGANIC SILT											0.0
0.5				SILT(ML)-same clay, trace of fine sand, rootlets throughout, moist to wet, soft, medium olive grey											1.5
1.0				SAND(TILL)(SM)-gravelly, silty, some clay, moist, firm, olive brown											3.0
1.5				GRAVEL AND SAND(TILL)(GM)-silty, trace of clay, occasional cobbles throughout, gravel is angular to subangular up to 200 mm, moist, dense, olive brown											4.5
2.0															6.0
3.0															10.0
4.0															12.0
5.0				END OF TEST PIT AT 5.0 m NOTE: -2 samples taken from spoil pile Moisture Content: 10.0% and 10.2%											16.0
6.0															20.0
7.0															24.0
8.0															28.0
9.0															32.0
10.0															

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-18
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED BACKHOE	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)	
					20	40	60	80	20	40	60	80		
					PLASTIC      M.C.      LIQUID  ----- ----- ----- -----  20      40      60      80				● PERCENT SAND ● 20      40      60      80					
									▲ PERCENT FINES ▲ 20      40      60      80					
									◆ PERCENT CLAY ◆ 20      40      60      80					
0.0				ORGANIC ROOT MAT - some minor water seepage at base of organics										0.0
				SILT - sandy, some gravel, trace of clay, damp, olive brown										
				SAND (TILL) - some silt and gravel, occasional cobbles, trace of boulder to 300 mm diameter occasional silty laminations, olive brown, uniform in appearance throughout										
-1.0														
-2.0														
-3.0														
-4.0														
-5.0				END OF TEST PIT 4.7 m										

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COMPLETION DEPTH 4.7 m	COMPLETE 90/05/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-19
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)					
					20	40	60	80	20	40		60	80			
					PLASTIC			M.C.			LIQUID					
					20			40			60			80		
					PERCENT SAND			PERCENT FINES			PERCENT CLAY					
					20			40			60			80		
0.0				ORGANIC ROOT MAT											0.0	
				SAND(TILL)-some silt and gravel, occasional cobbles, trace boulders to 300 mm in diameter, damp to moist, olive brown - subangular to subrounded												
1.0																
2.0		1														
				END OF TEST PIT 2.5 m												
3.0																
4.0																
5.0																

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COMPLETION DEPTH 2.5 m	COMPLETE 90/04/25	
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mount Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-19

Depth: 2.0 -2.4 m

Soil Description: GRAVEL (GM)- sandy, silty

Cu: \_\_\_\_\_

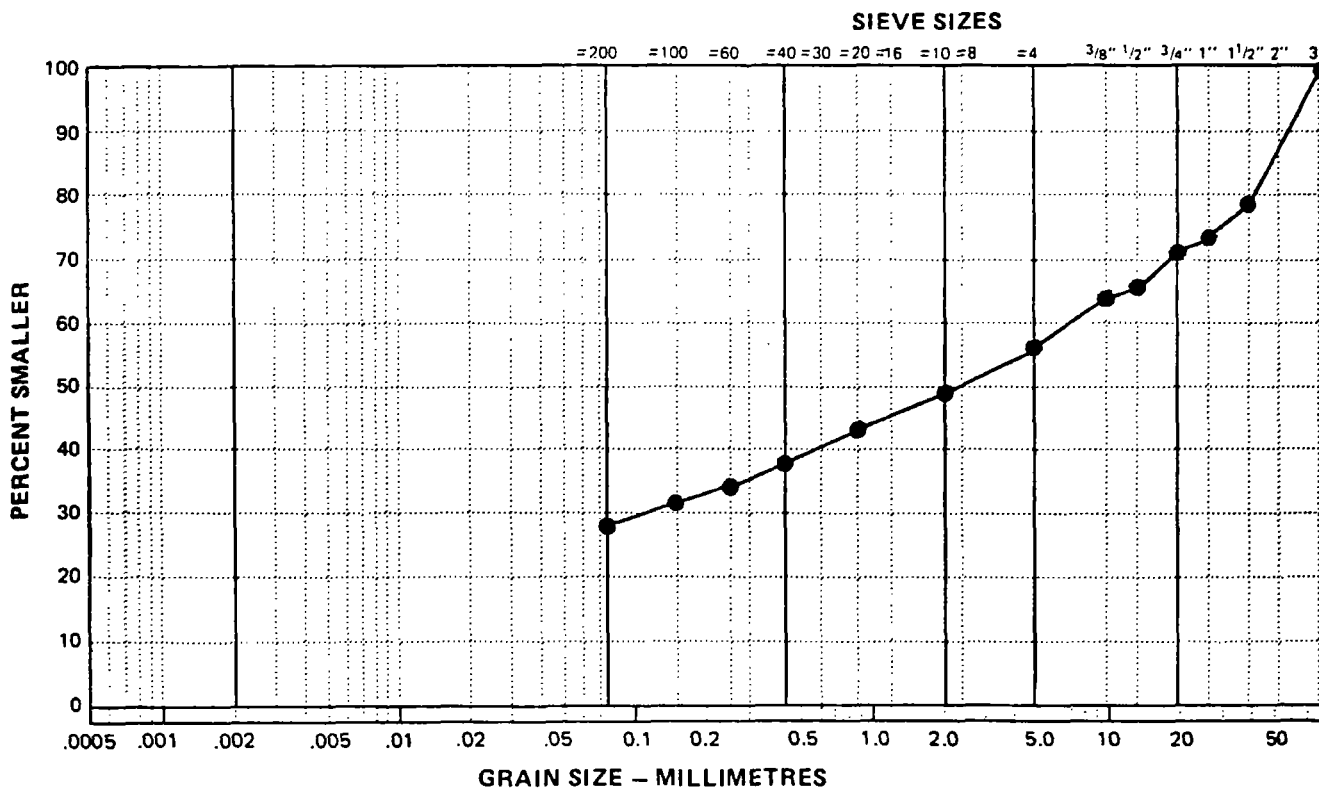
Cc: \_\_\_\_\_

Natural Moisture Content: 7.4 %

Remarks: \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	100
1 1/2"	78.7
1"	72.6
3/4"	71.0
1/2"	66.6
3/8"	63.9
No. 4	57.3
No. 10	49.4
No. 20	43.0
No. 40	37.8
No. 60	34.1
No. 100	30.8
No. 200	27.6

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE





MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-21
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			PERCENT CLAY			DEPTH (ft)		
					20	40	60	80	20	40	60	80	20	40	60	80	20	40	60		80	20
0.0				ORGANIC ROOT MAT																	0.0	
				SAND(TILL)-some silt and gravel, occasional cobble, trace of boulders to 300 mm diameter, damp to moist, olive brown																		
				END OF TEST PIT AT 0.8 m																		
-1.0				Note: No samples																		
-2.0																						
-3.0																						
-4.0																						
-5.0																						

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COMPLETION DEPTH 0.8 m

COMPLETE 90/04/25

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-22
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)

SAMPLE TYPE  GRAB SAMPLE  NO RECOVERY  STANDARD PEN.  75 mm SPOON  75 mm CRREL  100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)				
					20	40	60	80	20	40		60	80		
					PLASTIC			PERCENT SAND							
					M.C.			PERCENT FINES							
					LIQUID			PERCENT CLAY							
					20	40	60	80	20	40	60	80			
0.0				ORGANIC ROOT MAT										0.0	
				SAND (TILL) - some silt and gravel, occasional cobbles, trace of boulders to 300 mm diameter, damp to moist, olive brown											
-1.0				- sandy gravel pocket at north end of pit											
				- dark brown at 0.2 to 0.8 m (dark grey line approximately 0.8 m)											
-2.0				- olive brown below 0.8 m											
				- consistent below 0.8 m											
-3.0															
-4.0															
-5.0		1													
				END OF TEST PIT AT 5.2 m											
-6.0															
-7.0															
-8.0															
-9.0															
-10.0															

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COMPLETION DEPTH 5.2 m	COMPLETE 90/05/25
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MT. HUNDERE ACCESS ROAD		CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-23
km 44 - CAMPBELL HIGHWAY		BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON		UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> STANDARD PEN.
		<input type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL
			<input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT											0.0
0.0 - 2.0				SAND(TILL)-some silt and gravel, occasional cobbles, trace of boulders to 300 mm diameter, damp to moist, olive brown											0.0 - 2.0
2.0 - 3.1		1		GRAVEL(TILL)-some lenses of sand till throughout											2.0 - 3.1
3.1 - 3.1		2		SAND(TILL)-some silt and gravel, occasional cobbles, trace of boulders to 300 mm diameter, damp to moist, olive brown											3.1 - 3.1
3.1 - 5.0				END OF TEST PIT AT 3.1 m NOTE: Hole caved in to 3.1 m											3.1 - 5.0

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COMPLETION DEPTH 3.1 m	COMPLETE 90/05/25
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-23

Depth: 1.8 - 2.0 m

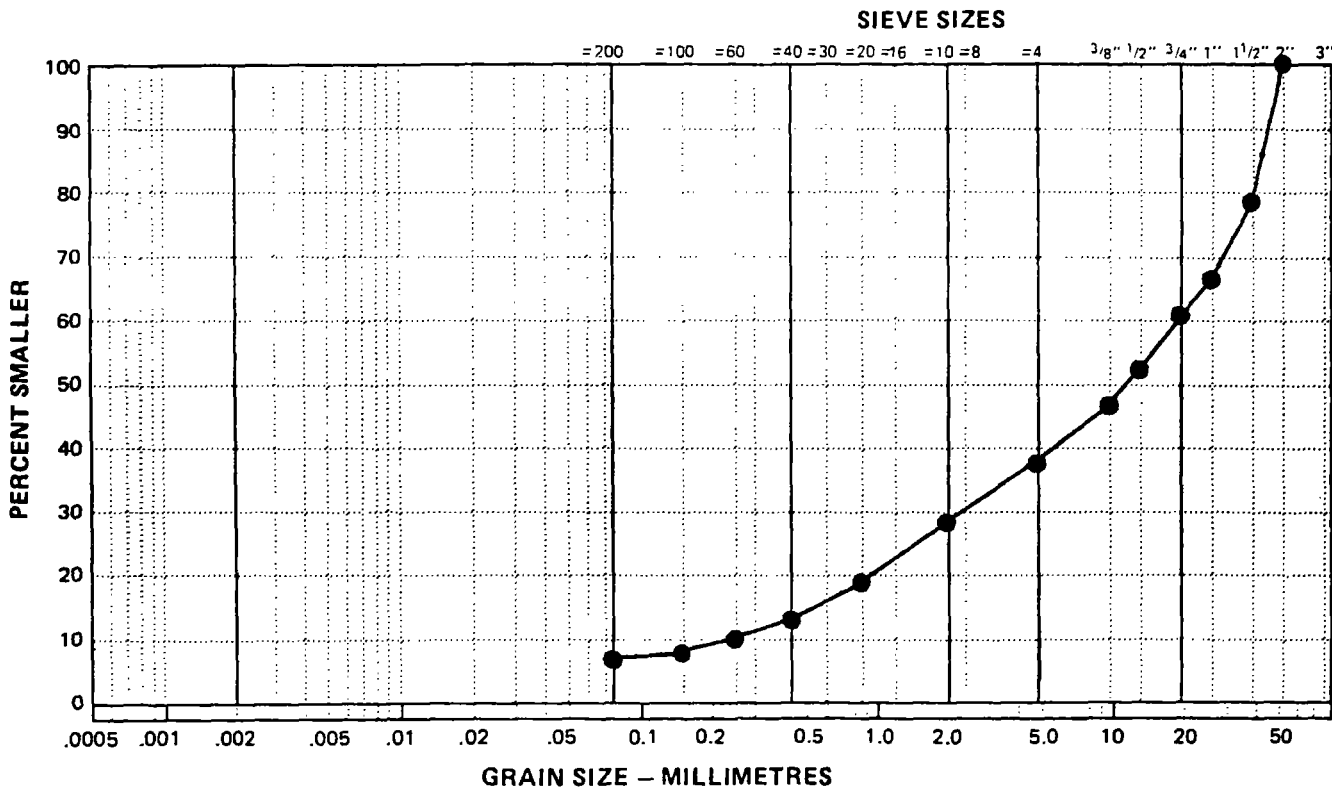
Soil Description: GRAVEL (GW/GM)-sandy, trace of silt  
 Cu: 79.2  
 Cc: 1.1

Natural Moisture Content: 2.2 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	79
1"	67
3/4"	61
1/2"	52
3/8"	46
No. 4	38
No. 10	28
No. 20	19
No. 40	13
No. 60	10
No. 100	8
No. 200	7

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-24
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)								
					20	40	60	80	20	40	60	80		20	40	60	80				
					PLASTIC M.C. LIQUID				PERCENT SAND				PERCENT FINES				PERCENT CLAY				
					20 40 60 80				20 40 60 80				20 40 60 80				20 40 60 80				
0.0				ROOT MAT AND BLACK ORGANIC SILT																	0.0
				SAND(TILL)-some silt and gravel, some pockets of laminated silt in top 1.0 m, cobbles and boulders to 300 m diameter																	2.0
-1.0																					4.0
																					6.0
-2.0		1																			8.0
				- hole sloughed to 3.0 m																	10.0
-3.0				END OF TEST PIT AT 3.0 m																	12.0
																					14.0
-4.0																					16.0
5.0																					

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.0 m	COMPLETE 90/05/25	LOGGED BY JRT	DWG NO.	Page 1 of 1
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-25
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ROOT MAT AND ORGANIC SILT									0.0
				GRAVEL(TILL)-sandy, brown									
-1.0				SAND(TILL)-some silt and gravel, some pockets of laminated silt, cobbles and boulders to 300 mm in diameter, grey									-2.0
-2.0				- orange brown colour									-4.0
-3.0				END OF TEST PIT AT 3.0 m Note: No Samples									-6.0
													-8.0
													-10.0
													-12.0
													-14.0
													-16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.0 m	COMPLETE 90/05/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-26
km 44 - CAMPSBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				PERCENT SAND				PERCENT FINES				PERCENT CLAY				DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT																			0.0	
				SILT(ML)-sandy, trace of gravel, moist, dark brown (colluvium)																				
				SAND(TILL)-silty, some gravel, occasional cobbles and boulders to 400 mm in diameter, damp, olive brown																			2.0	
-1.0																							4.0	
				- some silty laminations																			6.0	
-2.0		1																					8.0	
																							10.0	
-3.0				END OF TEST PIT AT 3.0 m NOTE:-Hole sloughed to 3.0 m																			12.0	
																							14.0	
-4.0																							16.0	
5.0																								

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COMPLETION DEPTH 3.0 m	COMPLETE 90/05/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-27
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION	PERCENT GRAVEL	DEPTH (ft)
					20 40 60 80	20 40 60 80	
					PLASTIC M.C. LIQUID	PERCENT SAND	
					20 40 60 80	20 40 60 80	
						PERCENT FINES	
						20 40 60 80	
						PERCENT CLAY	
						20 40 60 80	
0.0				ORGANIC ROOT MAT			0.0
				SAND(TILL) - some silt and gravel, occasional cobbles and boulders to 300 mm in diameter, damp, low plastic, olive brown			
-1.0							
-2.0							
-3.0							
				- consistent appearance with depth			
-4.0		1					
				END OF TEST PIT AT 4.3 m			
5.0							16.0

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COMPLETION DEPTH 4.3 m	COMPLETE 90/05/25	
LOGGED BY JRT	DWG NO.	Page 1 of 1

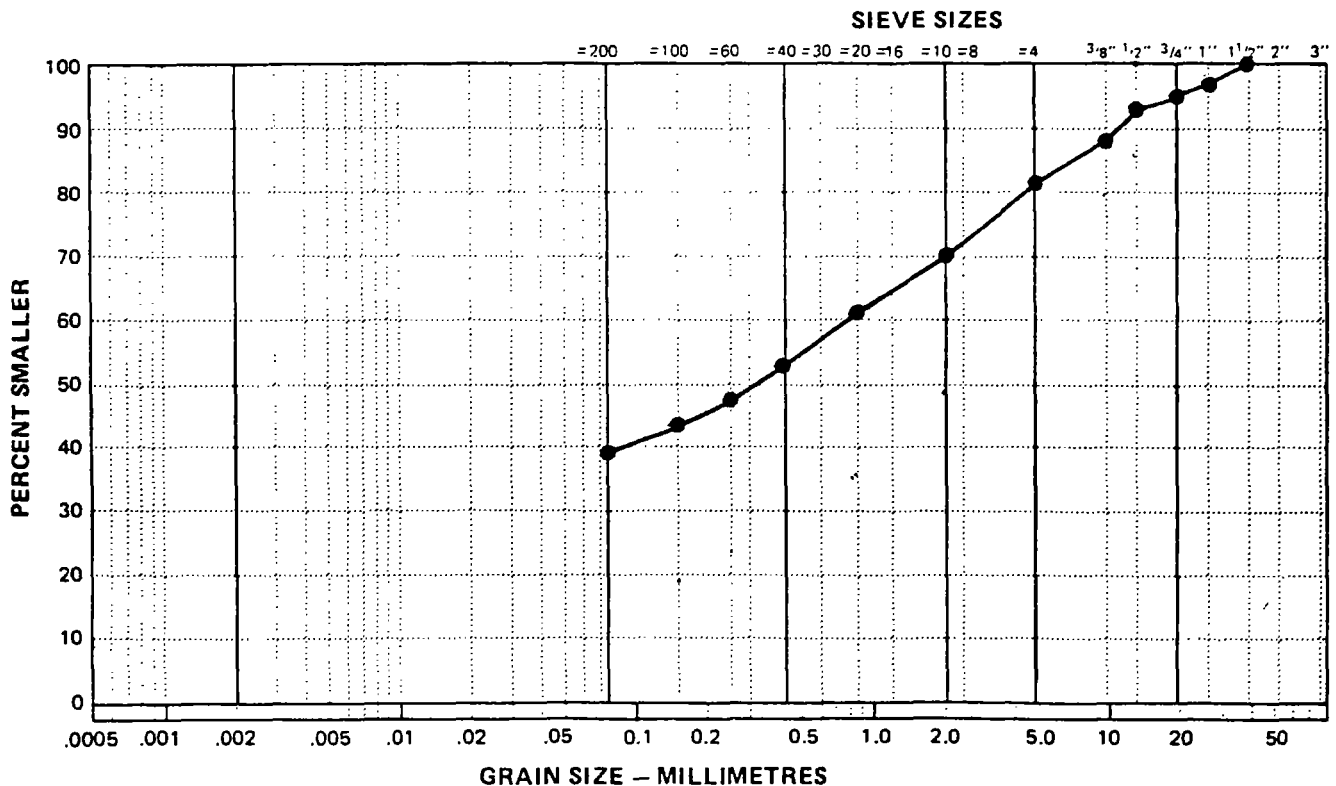
# EBA Engineering Consultants Ltd.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
Km 44 Campbell Highway  
 Project Number: 0201-10314  
 Date Tested: 1990-05-31  
 Borehole Number: 10314 - 27  
 Depth: 3.5 - 4.0 m  
 Soil Description: SAND AND SILT(SM) - some gravel  
 Cu: \_\_\_\_\_  
 Cc: \_\_\_\_\_  
 Natural Moisture Content: 7.9 %  
 Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	97.1
3/4"	95.6
1/2"	93.3
3/8"	88.9
No. 4	81.4
No. 10	70.7
No. 20	61.3
No. 40	53.8
No. 60	48.6
No. 100	43.9
No. 200	39.6

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-28
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> NO RECOVERY
	<input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON
		<input type="checkbox"/> 75 mm CRREL
		<input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT											0.0
				SILT-sandy, trace of gravel, some organic laminations											
				SAND(TILL)-some silt and gravel, occasional cobbles and boulders to 300 mm in diameter, damp, low plastic, olive brown											2.0
-1.0		1													4.0
				END OF TEST PIT AT 1.5 m NOTE:-Pit filled with water at this depth											6.0
-2.0															8.0
-3.0															10.0
-4.0															12.0
-5.0															14.0
															16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 1.5 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-29
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPDON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT											0.0
				SAND (TILL)—some silt and gravel, occasional cobbles and boulders to 300 mm in diameter, damp, grey brown											
-1.0															
				- angular rock fragments at 1.2 m - light brown											
-2.0															
-3.0															
				END OF TEST PIT AT 3.5 m											
-4.0															
-5.0															

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COMPLETION DEPTH 3.5 m	COMPLETE 90/05/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-30
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT											0.0
				SAND(TILL)-some silt and gravel, occasional cobbles and boulders to 300 mm in diameter, damp, low plastic, olive brown											
1.0															
2.0															
3.0															
4.0															
5.0															

END OF TEST PIT AT 3.6 m  
 NOTE:-2 m diameter boulder in right-of-way

COMPLETION DEPTH 3.6 m		COMPLETE 90/05/25	
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314 - 30

Depth: 2.0 - 2.5 m

Soil Description: SAND AND GRAVEL (GM) - some silt

Cu: \_\_\_\_\_

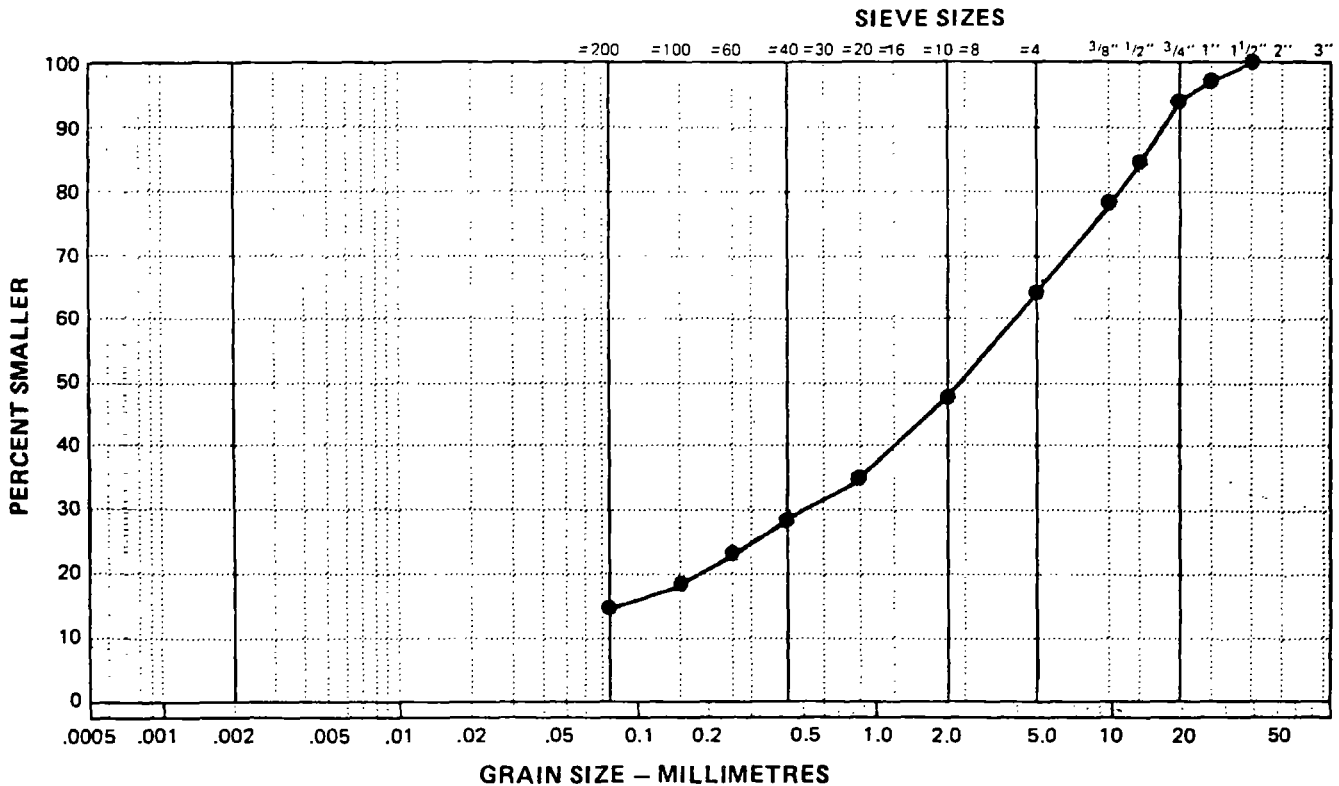
Cc: \_\_\_\_\_

Natural Moisture Content: 6.9 %

Remarks: \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	97
3/4"	95
1/2"	85
3/8"	79
No. 4	64
No. 10	48
No. 20	37
No. 40	29
No. 60	23
No. 100	19
No. 200	16

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-31
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> NO RECOVERY
	<input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON
	<input type="checkbox"/> 75 mm CRREL	<input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT											0.0
				SILT(ML)-sandy, trace of gravel, dark brown											
				GRAVEL AND SAND-light brown, clean, rounded particles to 75 mm diameter											
1.0		1		SAND(TILL)-some silt and gravel, occasional cobbles and boulders to 300 mm in diameter, damp, low plastic, olive brown											4.0
2.0				- some light brown zones											6.0
				END OF TEST PIT AT 2.2 m NOTE:-Hole sloughed in											8.0
3.0															10.0
4.0															12.0
															14.0
5.0															16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.2 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-32
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		PERCENT CLAY		DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT											0.0
				GRAVEL AND SAND—trace of silt to clean, damp, dark brown											
1.0		1		SAND(TILL)—some silt and gravel, occasional cobbles and boulders to 300 mm in diameter, damp, low plastic, brown											4.0
2.0				END OF TEST PIT AT 2.4 m Note: Pit on top of long, narrow ridge											8.0
3.0															10.0
4.0															14.0
5.0															16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.4 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314 - 32

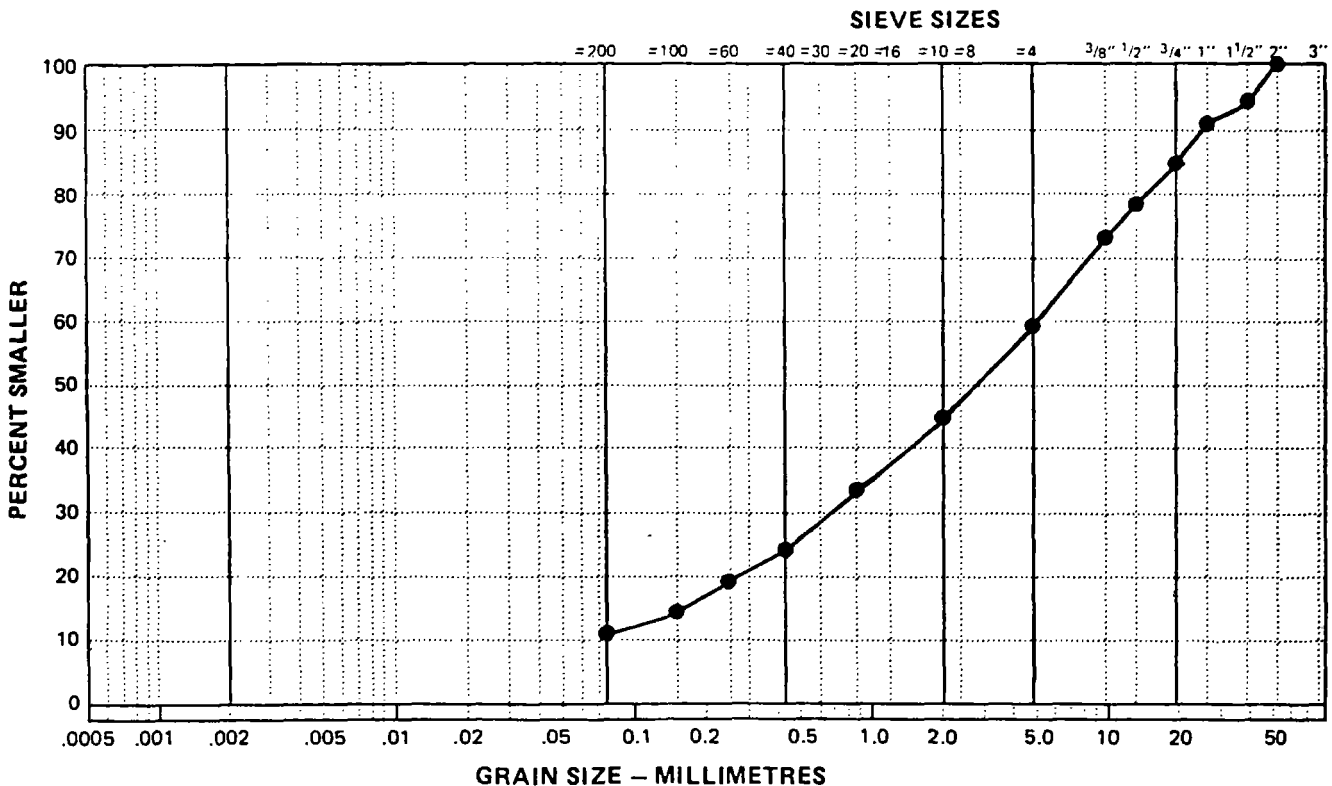
Depth: 0.6 - 1.0 m

Soil Description: SAND AND GRAVEL (SP/SM)- some silt  
Cu: 8.3  
Cc: 0.16  
 Natural Moisture Content: 6.4 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	95
1"	91
3/4"	85
1/2"	78
3/8"	73
No. 4	60
No. 10	45
No. 20	33
No. 40	25
No. 60	19
No. 100	15
No. 200	11

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-33
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)	
					20	40	60	80	20	40	60	80		
0.0				ORGANIC ROOT MAT										0.0
				SAND (TILL) - silty, some gravel, trace of cobbles and boulders to 300 mm diameter, damp, olive brown from 0.1 to 1.2 m										
1.0		1		- light brown below 1.2 m										4.0
2.0														6.0
				END OF TEST PIT AT 2.7 m										10.0
3.0														12.0
4.0														14.0
5.0														16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.7 m	COMPLETE 90/05/25
LOGGED BY JRT	DWG NO.	Page 1 of 1

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-34
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION				PERCENT GRAVEL				DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT									0.0
				SILT-sandy, trace of gravel, dark grey									
				SILT(TILL)-sandy, some gravel and clay, occasional cobbles and boulders to 300 mm in diameter, medium plastic, olive brown - hole filled with water at 0.5 m below grade, hole depth estimated, and sampled from soil pile									
1.0		1											
2.0													
				END OF TEST PIT AT 2.5 m									
3.0													
4.0													
5.0													

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COMPLETION DEPTH 2.5 m

COMPLETE 90/05/25

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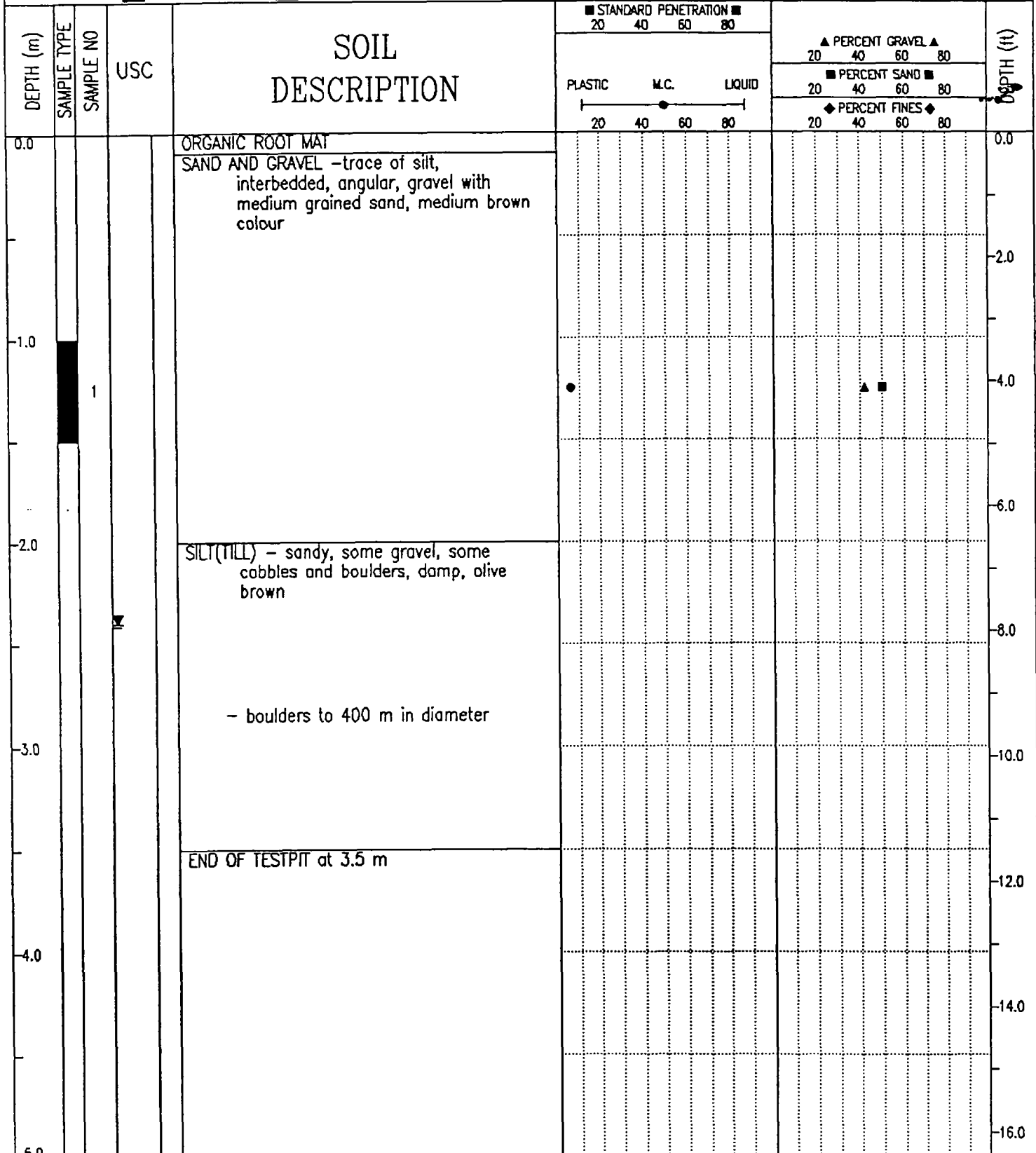
MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-35
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				DEPTH (ft)											
					20	40	60	80	20	40	60		80										
					PLASTIC			PERCENT SAND				PERCENT FINES				PERCENT CLAY							
					M.C.			20				40				60				80			
					LIQUID			20				40				60				80			
0.0				ROOT MAT AND ORGANIC SILT-sandy, trace of gravel																		0.0	
				SILT(TILL)-sandy, some gravel and clay, occasional cobbles and boulders to 300 mm in diameter, medium plastic, olive brown - pit filled with water at 0.5 m - depth estimated																		2.0	
1.0		1																				4.0	
2.0				END OF TEST PIT AT 2.0 m																		6.0	
3.0																						10.0	
4.0																						12.0	
																						14.0	
5.0																						16.0	

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Whitehorse, Yukon

COMPLETION DEPTH 2.0 m		COMPLETE 90/05/25	
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-36
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		



EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.5 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201 - 10314

Date Tested: 1990-05-31

Borehole Number: 10314-36

Depth: 1.0 - 1.5 m

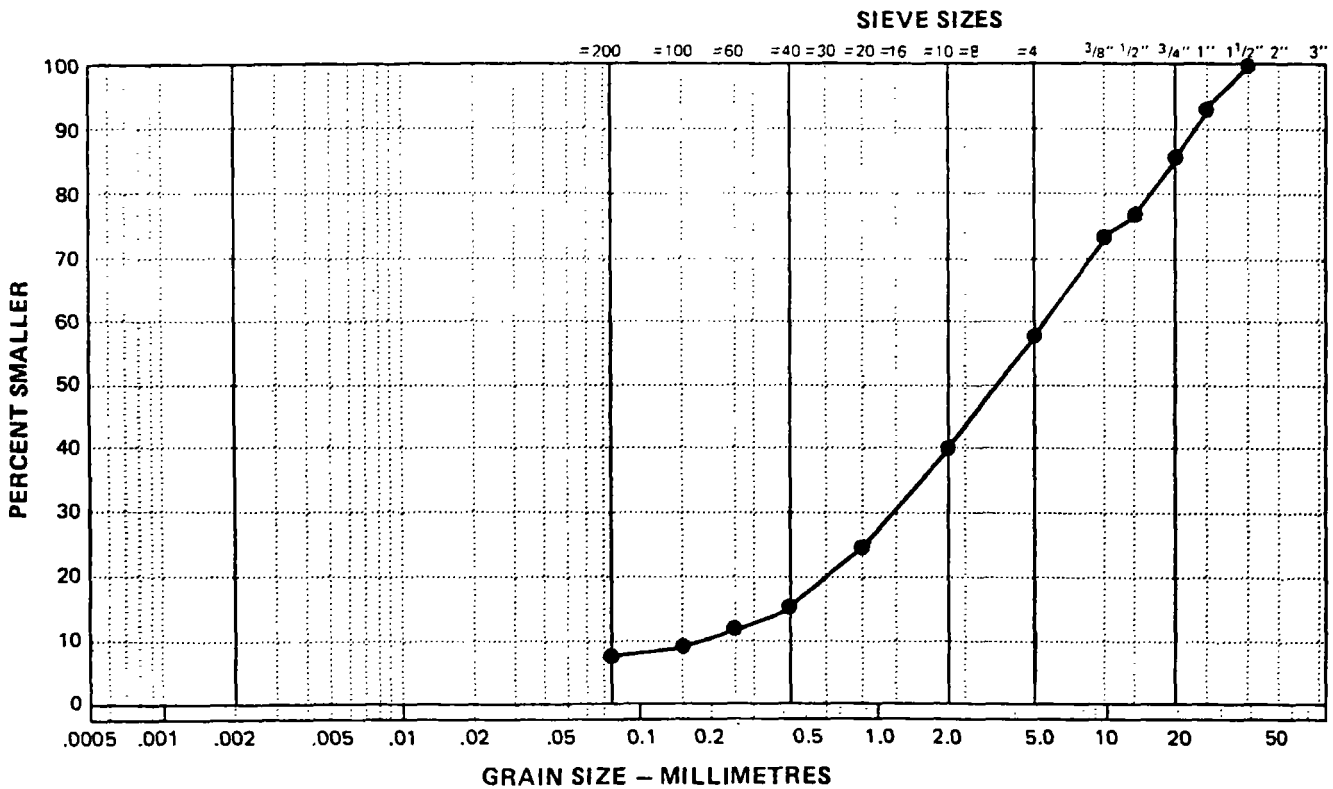
Soil Description: SAND AND GRAVEL (SW/SM)- trace of silt  
Cu: 32.4  
Cc: 1.8

Natural Moisture Content: 6.0 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	93
3/4"	87
1/2"	78
3/8"	72
No. 4	58
No. 10	40
No. 20	27
No. 40	17
No. 60	12
No. 100	10
No. 200	8

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-37
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)

SAMPLE TYPE  GRAB SAMPLE  NO RECOVERY  STANDARD PEN.  75 mm SPOON  75 mm CRREL  100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)
					20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT							0.0
				GRAVEL AND SAND—trace of silt to some silt, rounded gravel to 75 mm in diameter, light brown							
1.0				SAND(TILL)—silty, some gravel, cobbles and boulders to 300 mm in diameter, damp, olive brown							4.0
2.0				-dark grey schist fragments on top of spoil pile							8.0
3.0				- bedrock fragments noted at bottom of pit							10.0
				END OF TESTPIT AT 3.6 m							12.0
4.0											14.0
5.0											16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.6 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-38
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)

SAMPLE TYPE  GRAB SAMPLE  NO RECOVERY  STANDARD PEN.  75 mm SPOON  75 mm CRREL  100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION 20 40 60 80	PLASTIC M.C. LIQUID 20 40 60 80	PERCENT GRAVEL 20 40 60 80	PERCENT SAND 20 40 60 80	PERCENT FINES 20 40 60 80	DEPTH (ft)
0.0				ORGANIC ROOT MAT						0.0
				SILT -sandy, trace of gravel, brown						
				SAND(TILL)- gravelly, trace to some silt, occasional cobbles to 300 mm in diameter, olive brown and grey						2.0
-1.0		1		- numerous gravelly sand lenses throughout						4.0
-2.0				- stratified appearance						6.0
-3.0				END OF TESTPIT AT 2.8 m NOTE: Small gravel and sand deposit on S. bank of creek between TP 38 and 39						10.0
-4.0										12.0
-5.0										16.0

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Whitehorse, Yukon

COMPLETION DEPTH 2.8 m

COMPLETE 90/05/25

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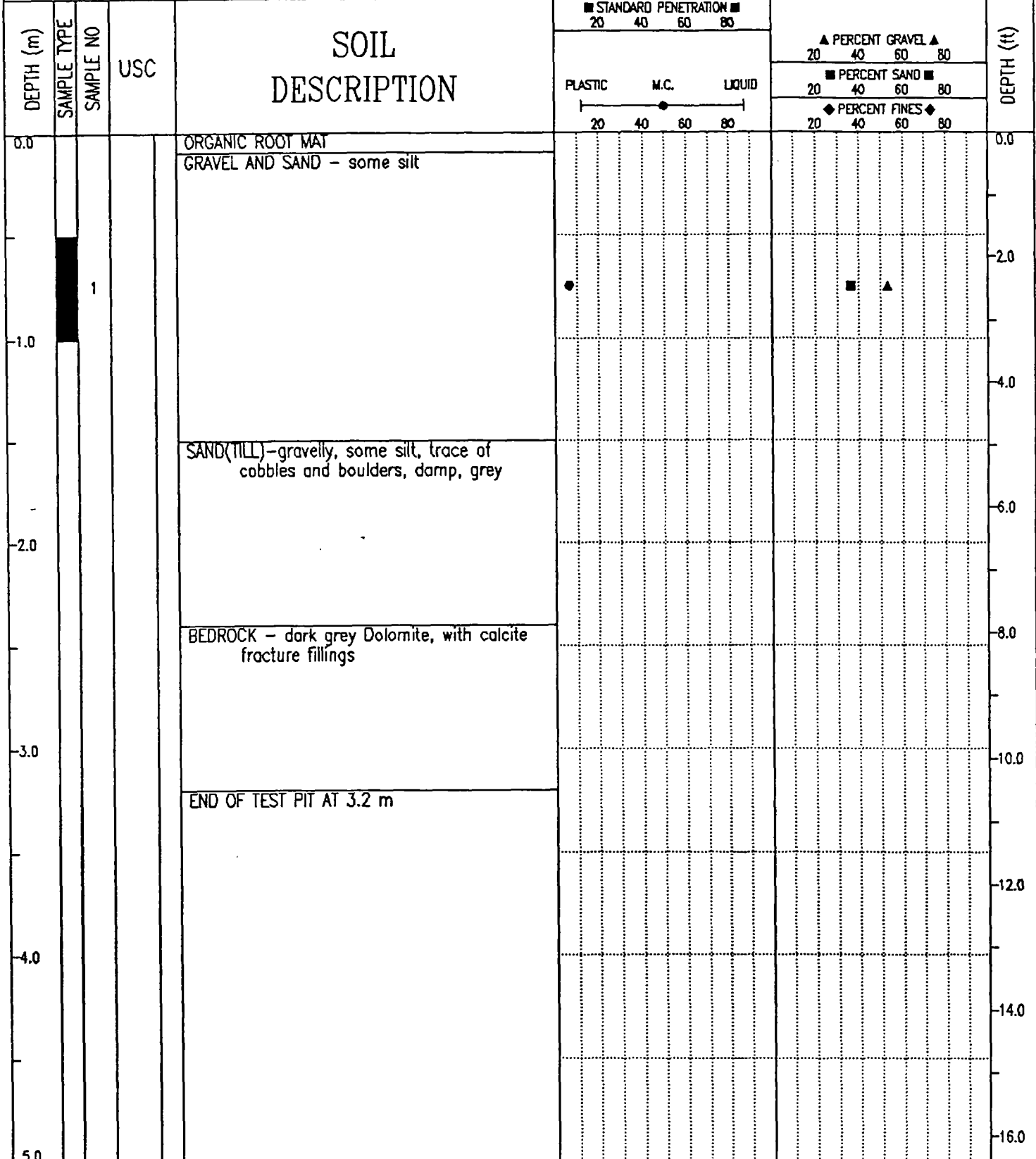
DWG NO.

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-39
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT											0.0	
				GRAVEL AND SAND-trace of silt, dry, grey												
		1		SILT (TILL)- sandy, some gravel, cobbles and boulders to 300 mm in diameter, moist, olive brown											2.0	
-1.0				- pit filled with water at 1.0 m											4.0	
				END OF TESTPIT AT 1.5 m											6.0	
-2.0															8.0	
															10.0	
-3.0															12.0	
															14.0	
-4.0															16.0	
-5.0																

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-40
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL



EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.2 m	COMPLETE 90/05/25
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# EBA Engineering Consultants Ltd.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-40

Depth: 1.0 - 1.5 m

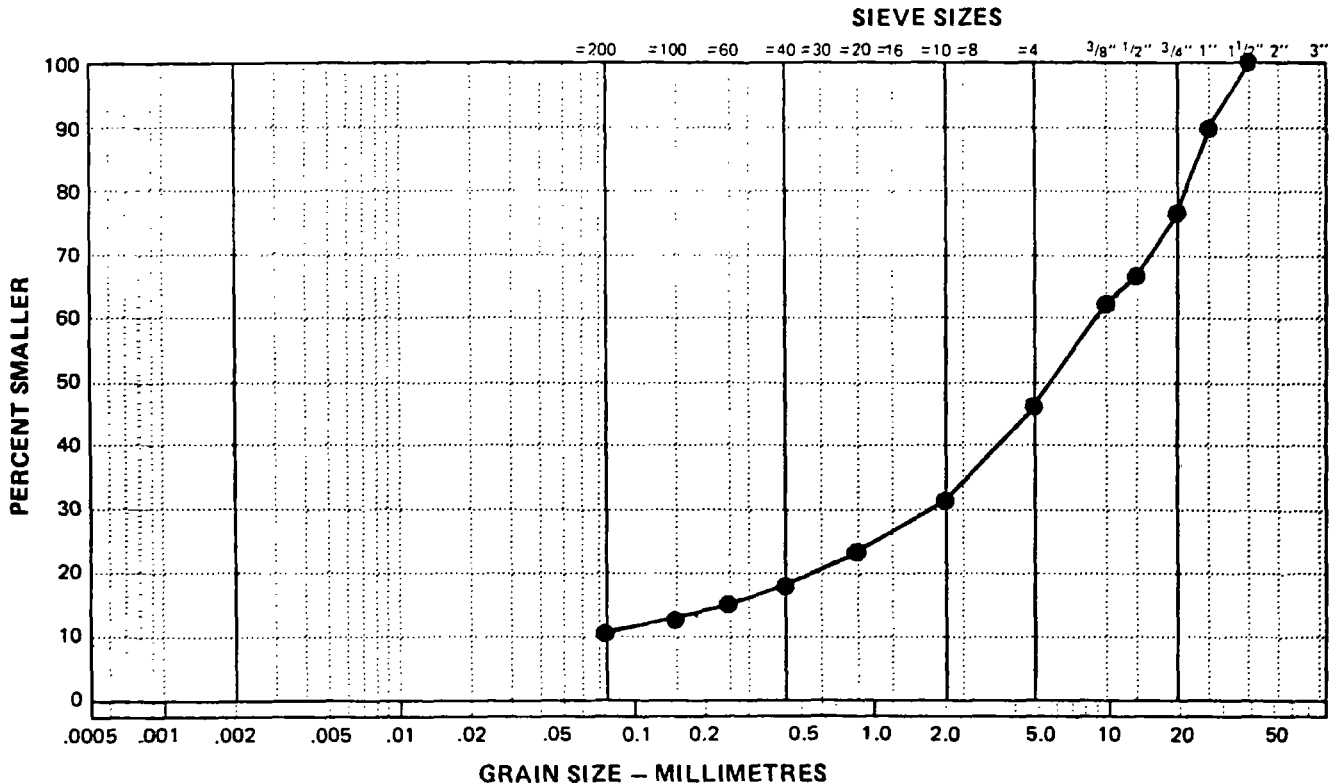
Soil Description: GRAVEL AND SAND(GP/GM) -some silt  
 Cu: 13.3  
 Cc: 6.8

Natural Moisture Content: 6.6 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	90
3/4"	77
1/2"	68
3/8"	62
No. 4	47
No. 10	31
No. 20	23
No. 40	18
No. 60	15
No. 100	13
No. 200	11

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-41
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT													0.0
				SILT(TILL) - sandy, some gravel, cobbles and boulders to 300 mm in diameter, light brown, medium plasticity													
1.0		1		SAND AND GRAVEL - trace of silt, cobbles and boulders to 300 mm in diameter, damp, brown													4.0
				- some bedrock fragments noted in spoil pile													
2.0				- possible bedrock in base of testpit													6.0
				END OF TESTPIT AT 2.0 m (sloughed in)													8.0
3.0																	10.0
4.0																	12.0
																	14.0
5.0																	16.0

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Whitehorse, Yukon

COMPLETION DEPTH 2.0 m

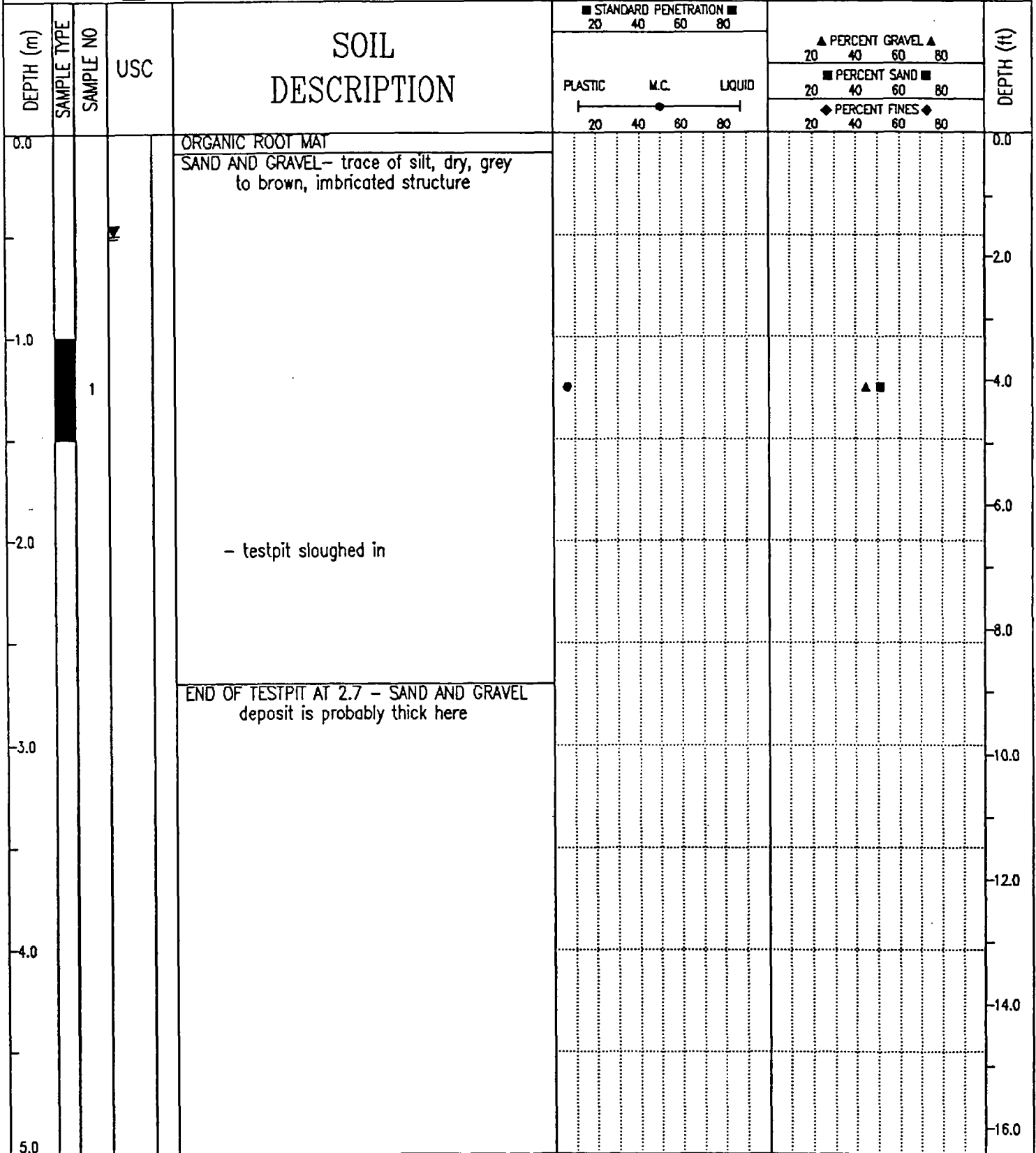
COMPLETE 90/05/25

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-42
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL



EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.7 m	COMPLETE 90/05/25
LOGGED BY JRT	DWG NO.	Page 1 of 1

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201 - 10314

Date Tested: 1990-05-31

Borehole Number: 10314 - 42

Depth: 1.0 - 1.5 m

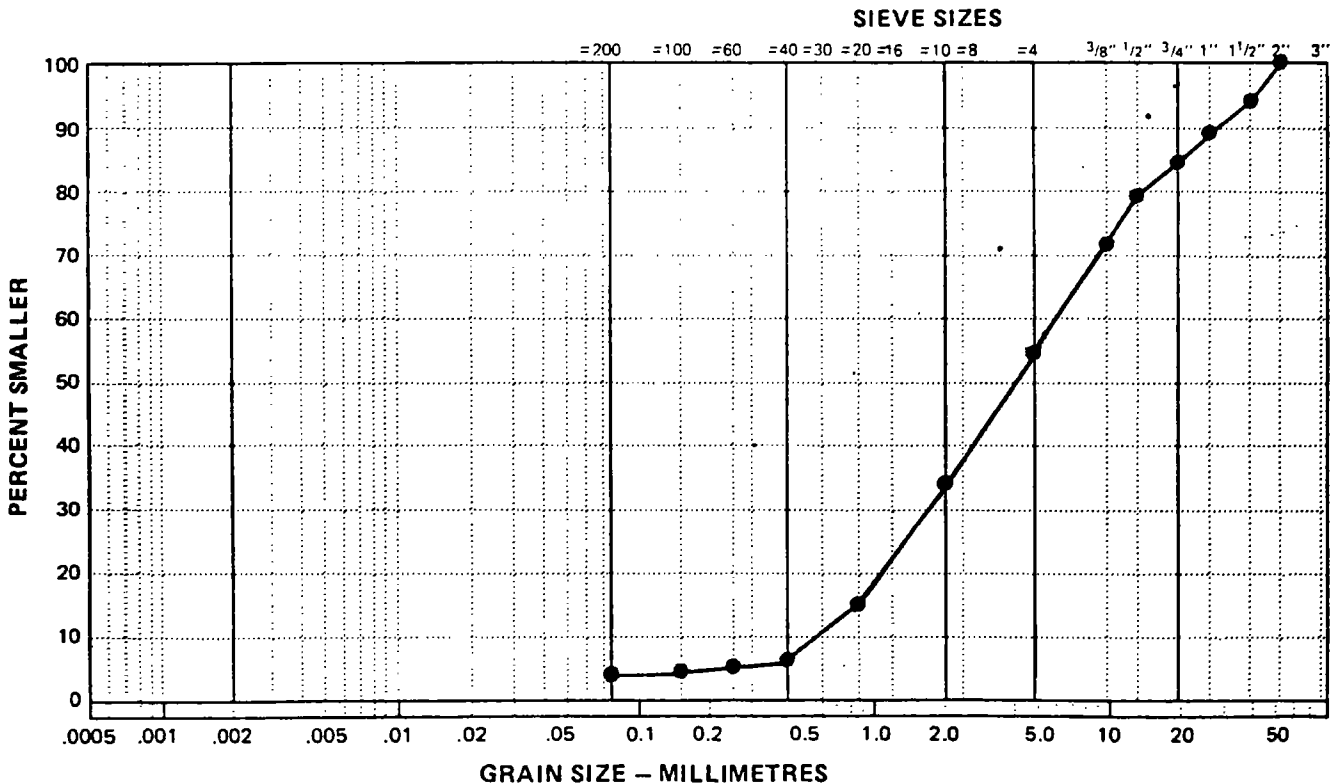
Soil Description: SAND AND GRAVEL (SP) - trace of silt  
 Cu: 10  
 Cc: 0.8

Natural Moisture Content: 6.6 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2 "	100
1 1/2 "	95
1 "	89
3/4 "	85
1/2 "	79
3/8 "	72
No. 4	55
No. 10	34
No. 20	16
No. 40	7
No. 60	6
No. 100	5
No. 200	4

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-43
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)	
					20	40	60	80	20	40	60	80	20	40	60	80		20
0.0				ORGANIC ROOT MAT														0.0
				SILT(TILL)-sandy, some gravel, trace of cobbles and boulders to 300 mm in diameter, moist, medium plastic, olive brown														2.0
-1.0		1		- occasional sandier zones														4.0
-2.0				END OF TESTPIT AT 2.2 m (sloughed in)														6.0
-3.0																		10.0
-4.0																		12.0
-5.0																		14.0
																		16.0

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Whitehorse, Yukon

COMPLETION DEPTH 2.2 m	COMPLETE 90/05/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-44
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)
					20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT							0.0
				SAND - gravelly, some silt, damp, brown - silty from 0.1 to 0.5 m							
-1.0				- consistent appearance							-4.0
-2.0		1		SILT - clayey, olive brown, lens moist, medium plasticity - hole sloughed to 2.4 m							-6.0
-3.0				END OF TESTPIT AT 2.4 m SAND AND GRAVEL at base							-8.0
-4.0											-10.0
-5.0											-12.0
											-14.0
											-16.0

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Whitehorse, Yukon

COMPLETION DEPTH 2.4 m

COMPLETE 90/05/25

LOGGED BY JRT

DWG NO.

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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-44

Depth: 1.5 - 2.0 m

Soil Description: SAND(SM)-gravelly, some silt

Cu: \_\_\_\_\_

Cc: \_\_\_\_\_

Natural Moisture Content: 10.8 %

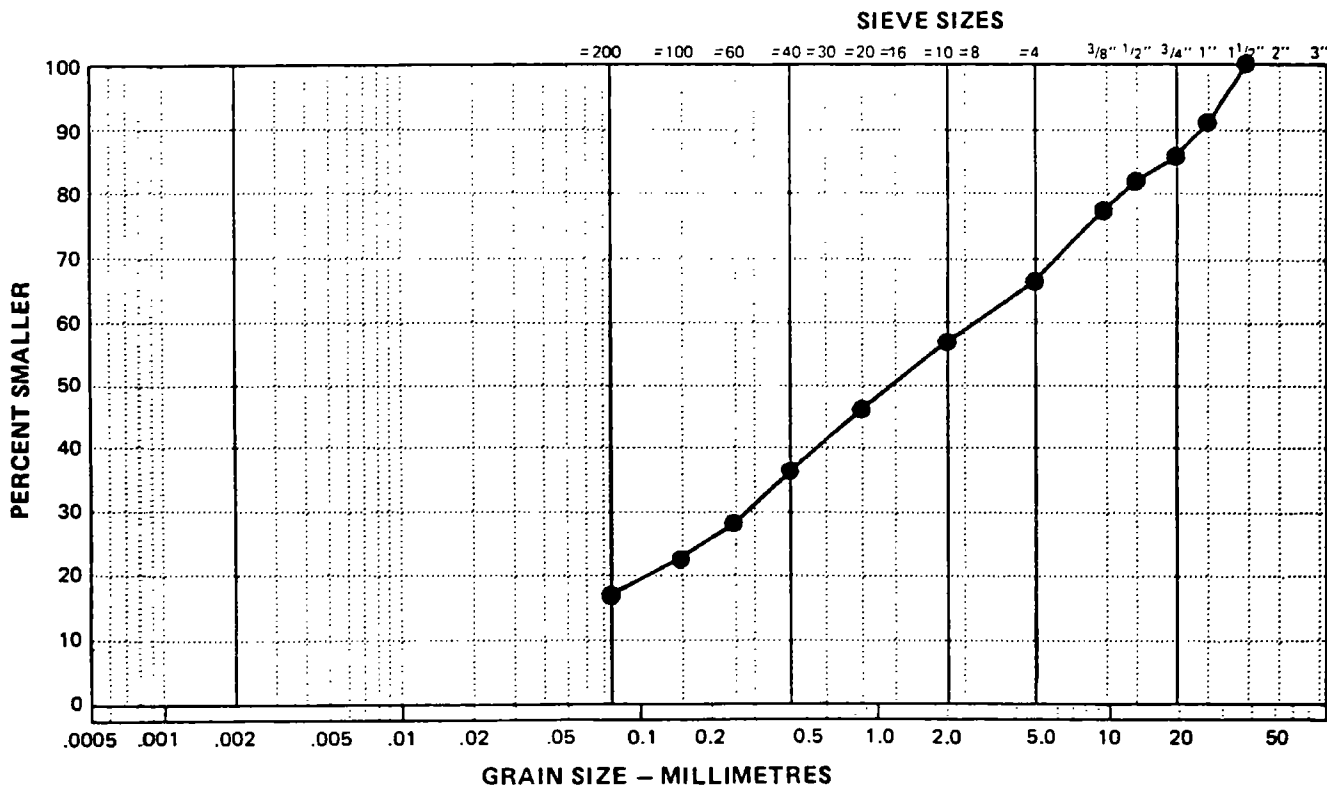
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	91
3/4"	86
1/2"	82
3/8"	78
No. 4	68
No. 10	57
No. 20	46
No. 40	36
No. 60	28
No. 100	22
No. 200	18

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-45
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT												0.0
				SILT - sandy, some gravel, moist, olive brown												
				SAND(TILL) - gravelly, some silt, trace of cobbles and boulders to 300 mm in diameter, damp, non-plastic, brown												
				- some thin silty lenses												
				- occasional sand and gravel lenses												
				END OF TESTPIT AT 3.5 m												
5.0																16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.5 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-46
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)
					20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT SILT- sandy, trace of gravel, moist, olive brown							0.0
				GRAVEL AND SAND(TILL) - some silt, trace of cobbles and boulders to 300 mm in diameter, olive brown							-2.0
-1.0				- some silt till lenses							-4.0
-2.0		1		- some sand and gravel pockets							-6.0
				END OF TESTPIT AT 2.5 m - water in pit at this depth							-8.0
-3.0											-10.0
											-12.0
-4.0											-14.0
											-16.0
5.0											

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COMPLETION DEPTH 2.5 m	COMPLETE 90/05/25	
LOGGED BY JRT	DWG NO.	Page 1 of 1

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201 - 10314

Date Tested: 1990-05-31

Borehole Number: 10314-46

Depth: 1.5 - 2.0 m

Soil Description: GRAVEL AND SAND (GM) - some silt

Cu: \_\_\_\_\_

Cc: \_\_\_\_\_

Natural Moisture Content: 7.5 %

Remarks: \_\_\_\_\_

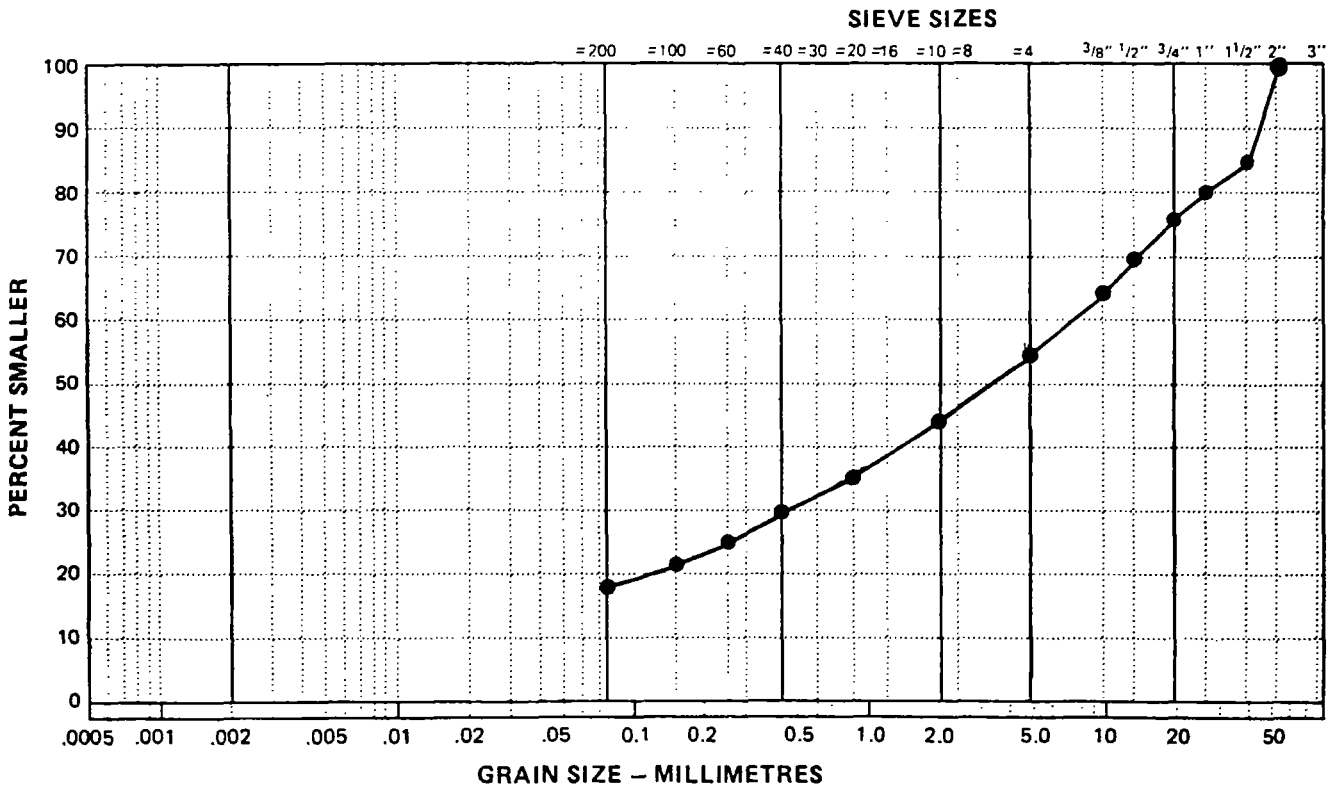
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	85
1"	80
3/4"	77
1/2"	70
3/8"	64
No. 4	55
No. 10	45
No. 20	36
No. 40	30
No. 60	25
No. 100	22
No. 200	18

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-47
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)

SAMPLE TYPE  GRAB SAMPLE  NO RECOVERY  STANDARD PEN.  75 mm SPOON  75 mm CRREL  100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				PERCENT SAND				PERCENT FINES				DEPTH (ft)
					20	40	60	20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT																0.0
				SAND(TILL) - gravelly, some silty laminations, cobbles and boulders to 300 mm in diameter, damp, olive brown																
1.0		1		- some sandier zones throughout																4.0
				- consistent appearance with depth																
2.0				END OF TEST PIT AT 2.4 m - sloughed in																8.0
3.0																				10.0
4.0																				12.0
5.0																				16.0

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COMPLETION DEPTH 2.4 m

COMPLETE 90/05/25

LOGGED BY JRT

DWG NO.

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-48
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT									0.0
				SAND(TILL) - gravelly, some silt, some cobbles and boulders to 300 mm in diameter, moist, olive brown									
-1.0													-2.0
				- some sandy laminations									
-2.0													-4.0
													-6.0
				END OF TESTPIT AT 2.3 m									-8.0
													-10.0
													-12.0
													-14.0
													-16.0
5.0													

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 2.3 m

COMPLETE 90/05/25

LOGGED BY JRT

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-49
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT												0.0	
				SAND(TILL) - gravelly, some silt, some cobbles and boulders to 300 mm in diameter, damp to moist, non-plastic, olive brown													
				- constant with depth													
				END OF TESTPIT AT 2.5 m													
5.0																16.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.5 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-49

Depth: 1.5 - 2.0 m

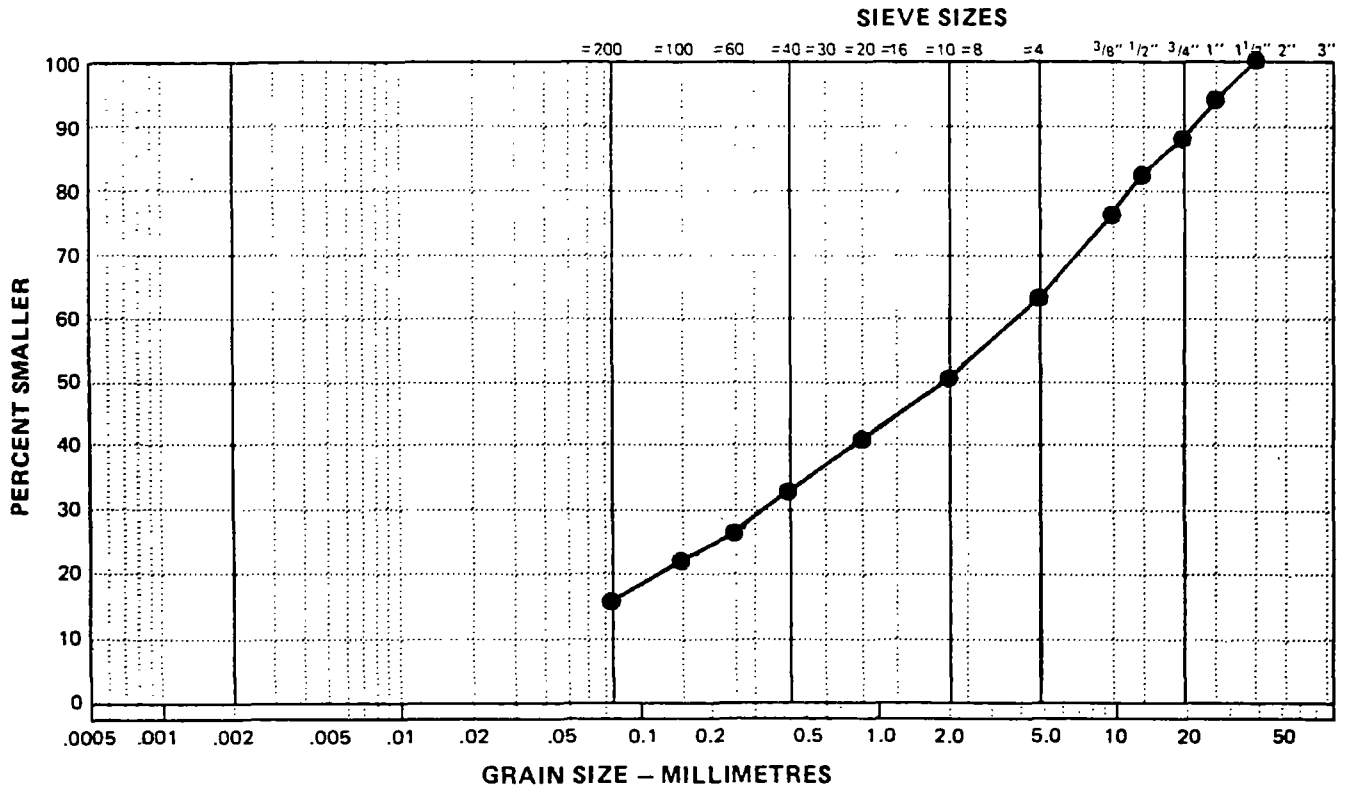
Soil Description: SAND AND GRAVEL(SM)- some silt  
 Cu: 19.5  
 Cc: 1.3

Natural Moisture Content: 7.8 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	95
3/4"	88
1/2"	82
3/8"	76
No. 4	63
No. 10	51
No. 20	41
No. 40	33
No. 60	27
No. 100	22
No. 200	16

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-50
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q2D1-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT												0.0	
				SILT - sandy, some gravel, trace of clay, dark brown, moist to wet													
				SAND (TILL) - gravelly, some silt, some cobbles and boulders to 300 mm in diameter, damp to moist, olive brown												2.0	
-1.0		1		- constant with depth												4.0	
-2.0				END OF HOLE AT 2.4 m												8.0	
-3.0																10.0	
-4.0																12.0	
-5.0																14.0	
																16.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.4 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-51
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT - angular boulders from surface to 2.0 m SAND(TILL) - gravelly, some silt, cobbles and boulders to 400 mm in diameter, olive brown												0.0	
1.0				- silty laminations in top 1.0 m												4.0	
2.0		1		- angular boulders throughout												8.0	
3.0																10.0	
4.0				END OF TESTPIT AT 3.8 m NOTE: Pit located near top of steep side hill - possibly bedrock - cored												14.0	
5.0																16.0	

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.8 m	COMPLETE 90/05/25
LOGGED BY JRT	DWG NO.
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-52

Depth: 3.0 - 3.5 m

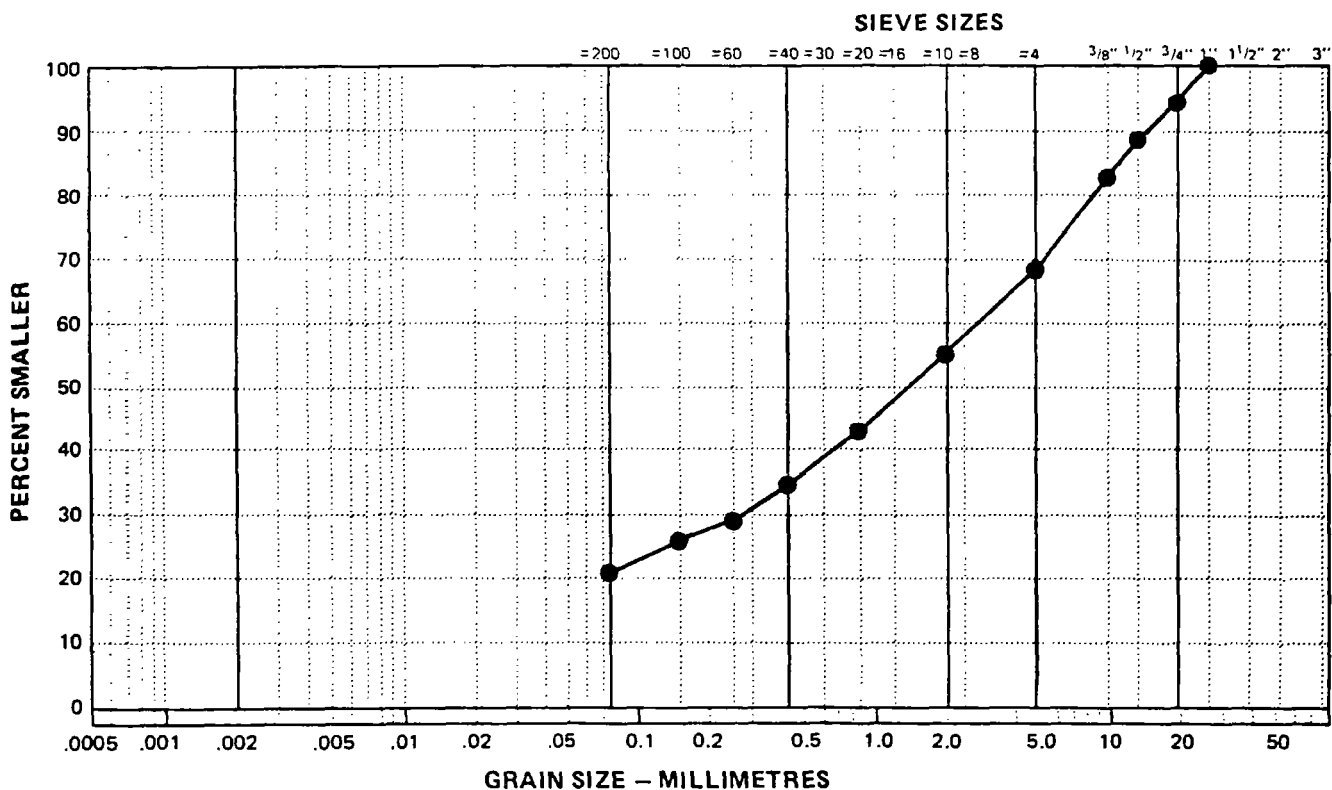
Soil Description: SAND(SM)- gravelly, some silt  
 Cu: 280  
 Cc: 2.8

Natural Moisture Content: 7.3 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	
1"	100
3/4"	94
1/2"	89
3/8"	83
No. 4	69
No. 10	55
No. 20	43
No. 40	34
No. 60	29
No. 100	20
No. 200	20

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-53
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT									0.0
				SILT - sandy, some gravel, moist, dark brown									
				SAND(TILL) - gravelly, some silt, some cobbles and boulders, damp, olive brown									
-1.0													-1.0
				- occasional silty lenses									
-2.0													-2.0
				- rounded boulders to 300 mm in diameter									
-3.0													-3.0
-4.0													-4.0
-5.0				END OF TEST PIT AT 4.5 m									-5.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 4.5 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-54
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	20	40	60	80	20	40	60	80		
0.0				ORGANIC ROOT MAT											0.0	
				SILT - sandy, some gravel, dark brown, moist												
				SAND(TILL) - some silt, some gravel, trace of cobbles and boulders, damp, olive brown											2.0	
-1.0															4.0	
				- occasional silty lenses											6.0	
-2.0															8.0	
				- rounded boulders to 300 mm in diameter											10.0	
-3.0															12.0	
				- possibly into bedrock at 3.3 m depth											14.0	
				END OF TESTPIT AT 3.3 m NOTE: Large angular rock fragments in spoil pile and in base of pit											16.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.3 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-55
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)
					20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT							0.0
				SAND AND GRAVEL - trace of silt, subangular to subrounded, dry, light brown							
				SAND(TILL) - gravelly, some silt, some cobbles and boulders, damp, olive brown							
-1.0											
-2.0											
		1		- rock visible in sidewalls below 2.5 m							
				BEDROCK - dolomite(?)							
-3.0											
				- angular pieces in spoil pile and in base of pit							
				END OF TESTPIT AT 3.4 m							
-4.0											
-5.0											

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-56
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E502043.89	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)
					20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT - siltier near surface GRAVEL - sandy, some silt, cobbles and boulders to 400 mm in diameter							0.0
1.0		1									4.0
2.0				BEDROCK - Dolomite with quartz							6.0
3.0				END OF TESTPIT AT 3.0 m							10.0
4.0											14.0
5.0											16.0

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.0 m	COMPLETE 90/05/25
LOGGED BY JRT	DWG NO.
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-56

Depth: 0.8 - 1.3 m

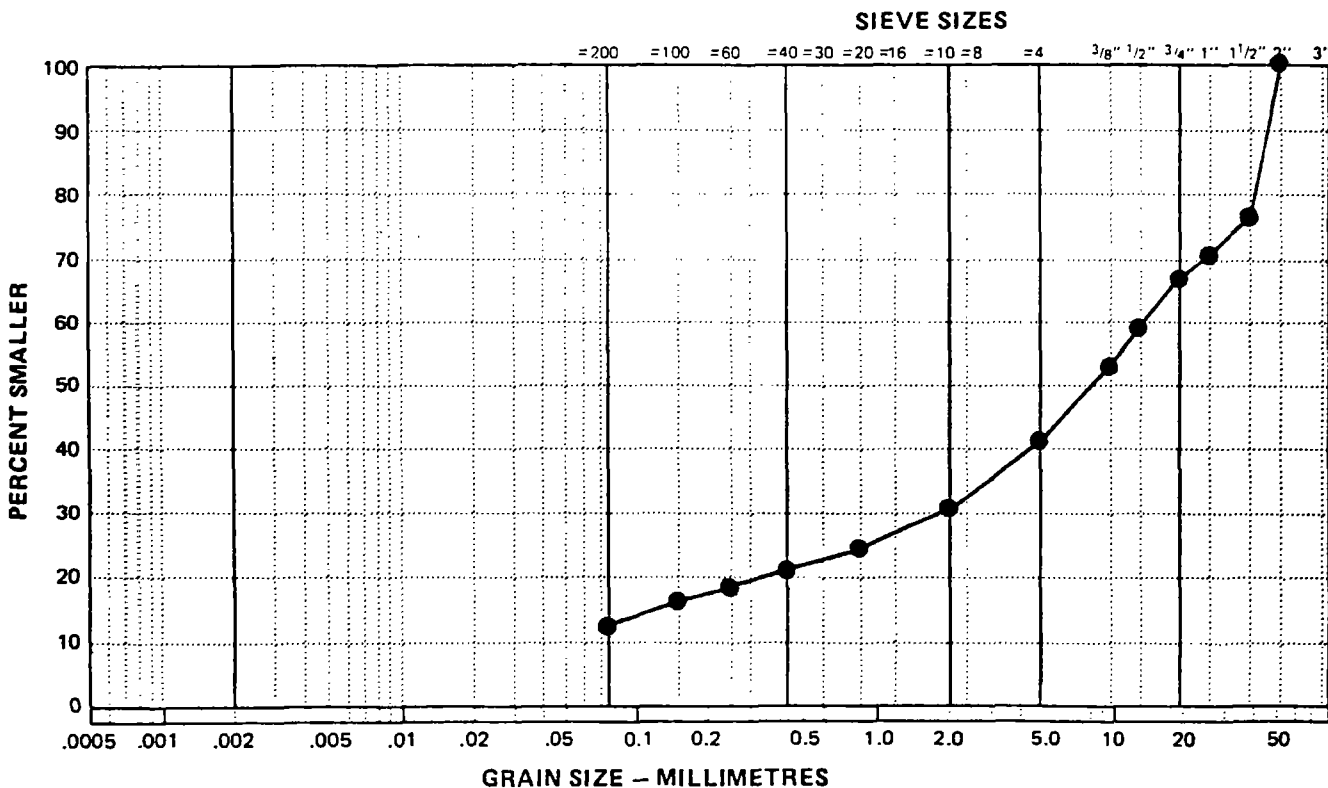
Soil Description: GRAVEL (GP/GM)-sandy, some silt  
 Cu: 260  
 Cc: 7.8

Natural Moisture Content: 3.2 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	77
1"	71
3/4"	67
1/2"	59
3/8"	53
No. 4	41
No. 10	31
No. 20	25
No. 40	21
No. 60	18
No. 100	16
No. 200	12

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-57
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT												0.0	
				SAND(TILL) - gravelly, some silt, cobbles and boulders to 300 mm in diameter, damp, olive brown													
-1.0																-1.0	
		1		- rock fragments are becoming more angular with depth												-2.0	
-2.0																-2.0	
				- possible bedrock at 3.3 m												-3.0	
-3.0				END OF TESTPIT at 3.3 m - some sloughing												-3.0	
																-4.0	
-4.0																-4.0	
																-5.0	
-5.0																-5.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.3 m	COMPLETE 90/05/25
LOGGED BY JRT	DWG NO.	Page 1 of 1

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-58
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)	
					20	40	60	80	20	40		60
0.0				ORGANIC ROOT MAT								0.0
				SAND(TILL) - gravelly, some silt, cobbles and boulders to 300 mm in diameter, damp, olive brown								
				(till thickness varies from 0.6 to 1.0 m in pit)								
-1.0				BEDROCK - shale, steeply dipping, friable, weathered, some silty and clayey zones								-4.0
												-6.0
												-8.0
												-10.0
-3.0				END OF TESTPIT AT 3.0 m - some sloughing NOTE: No samples taken								-12.0
												-14.0
												-16.0
5.0												

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-59
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT													
				SILT - sandy, some gravel, moist, dark brown, (colluvium)													
				BEDROCK - shale													
-1.0				END OF TESTPIT AT 1.0 m NOTE: no samples taken													
-2.0																	
-3.0																	
-4.0																	
-5.0																	

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 1.0 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-60
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)	
					20	40	80	20	40	80		20
0.0				ORGANIC ROOT MAT and black organic silt, moist, sandy								0.0
				SILT - sandy, trace of gravel and cobbles, moist, non-plastic, brown								
				SAND AND GRAVEL - trace of silt, damp, dark brown								-2.0
-1.0		1										-4.0
				BEDROCK - shale, weathered for 0.2 m								-6.0
				END OF TESTPIT AT 1.5 m								-8.0
-2.0												-10.0
												-12.0
-3.0												-14.0
												-16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 1.5 m	COMPLETE 90/05/25
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-61
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)								
					20	40	60	80	20	40		60	80						
					PLASTIC			PERCENT SAND			PERCENT FINES								
					M.C.			20			40			60			80		
					20			40			60			80					
0.0				ORGANIC ROOT MAT															0.0
				SILT- sandy, brown (colluvium)															
				SAND AND GRAVEL- trace of silt, angular to subrounded, dry, brown at top of layer becoming greyer with depth															
				- angular, trace of cobbles and boulders to 400 mm in diameter															
1.0																			
2.0																			
		1																	
3.0				END OF TESTPIT AT 3.0 m - some sloughing NOTE: Alluvial fan deposit - good borrow area															10.0
4.0																			
5.0																			16.0

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Whitehorse, Yukon

COMPLETION DEPTH 3.0 m	COMPLETE 90/05/25	
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-61

Depth: 1.5 - 2.0 m

Soil Description: SAND AND GRAVEL (SW)-trace of silt

Cu: 15

Cc: 1.1

Natural Moisture Content: 6.9 %

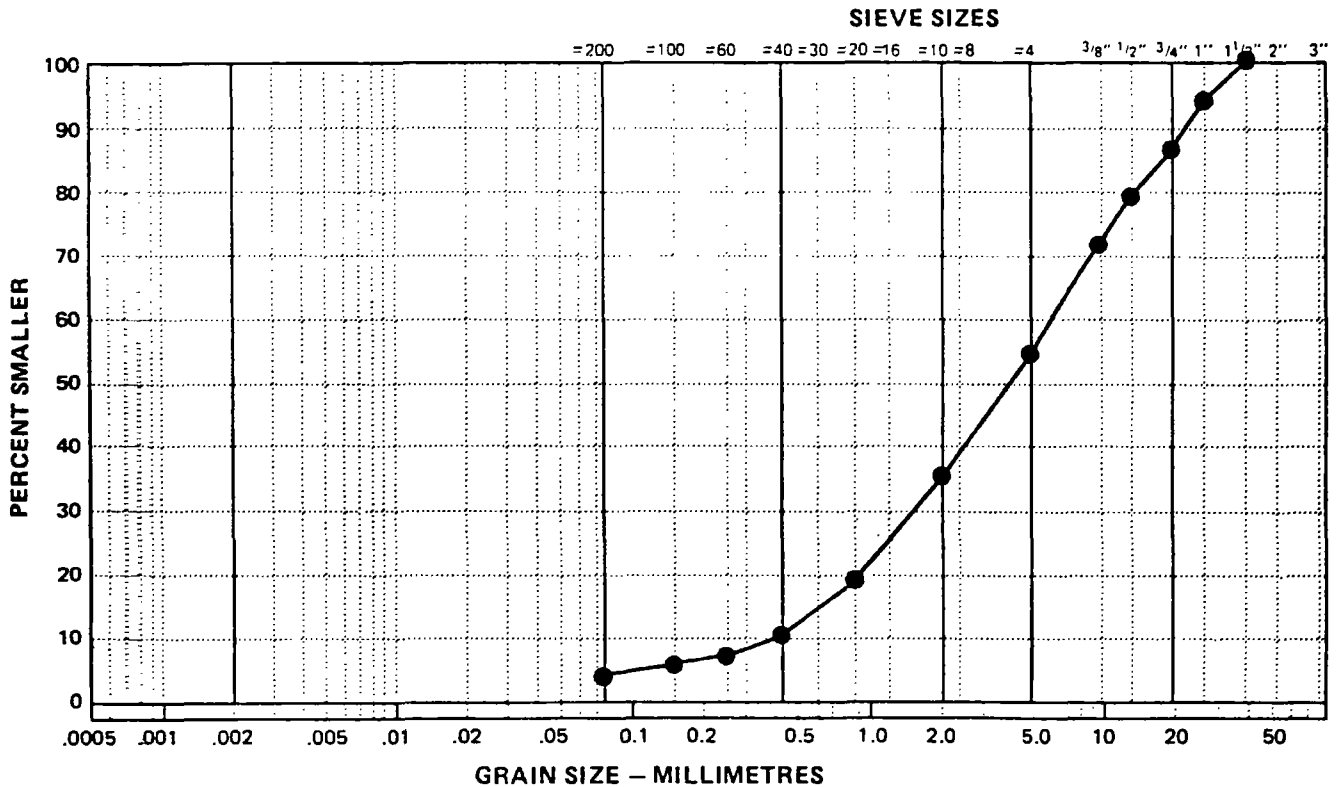
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	95
3/4"	87
1/2"	80
3/8"	72
No. 4	54
No. 10	35
No. 20	20
No. 40	11
No. 60	7
No. 100	5
No. 200	4

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-62
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT												0.0
				SAND AND GRAVEL - trace of silt, angular to sub rounded, dry, brown at top of layer becoming greyer with depth												
-1.0																
				- 200 mm thick sand lens												
-2.0																
		0		- angular, trace of cobbles and boulders to 400 mm in diameter												
-3.0				END OF TESTPIT AT 3.0 m - some sloughing												
-4.0																
-5.0																

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-62

Depth: 2.0 - 2.5 m

Soil Description: GRAVEL AND SAND(GP)-trace of silt

Cu: 31.6

Cc: 0.43

Natural Moisture Content: 7.7 %

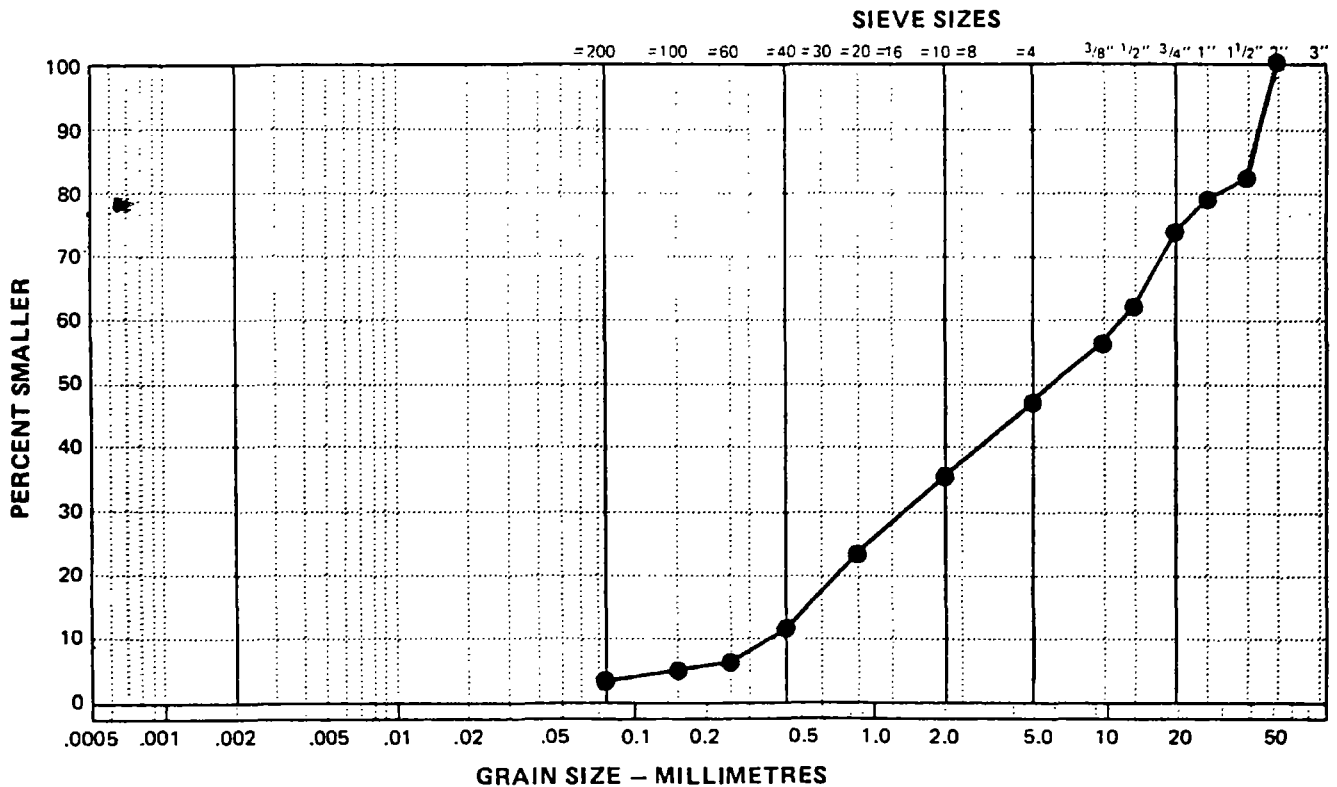
Remarks: \_\_\_\_\_

\_\_\_\_\_

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SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	82
1"	80
3/4"	74
1/2"	62
3/8"	57
No. 4	47
No. 10	35
No. 20	24
No. 40	12
No. 60	7
No. 100	4
No. 200	3

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-63
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				PERCENT SAND				PERCENT FINES				DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT																0.0
				SILT- sandy, some gravel (colluvium)																
1.0				SAND AND GRAVEL- trace of silt, angular to sub-rounded gravel fragments, dry, grey																2.0
				- water - lain deposit, stratified sand and gravel																4.0
2.0		1		- sand layers are medium to coarse grained																6.0
3.0																				10.0
				END OF TESTPIT AT 3.5 m - some sloughing																12.0
4.0																				14.0
5.0																				16.0

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.5 m

COMPLETE 90/05/25

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# EBA Engineering Consultants Ltd.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-63

Depth: 1.5 - 2.0 m

Soil Description: SAND(SW/SP)- gravelly, trace of silt

Cu: 10.6

Cc: 1.2

Natural Moisture Content: 8.4 %

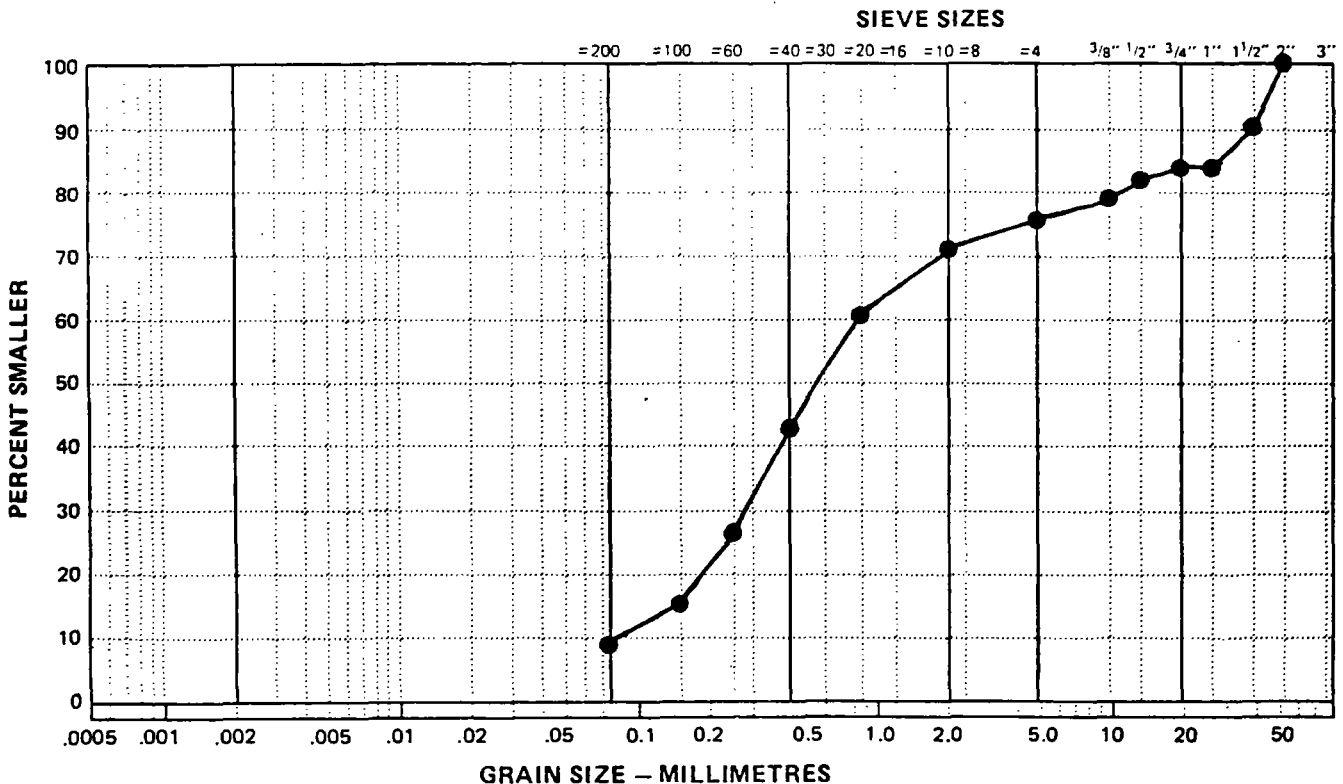
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
No. 4	
No. 10	
No. 20	
No. 40	
No. 60	
No. 100	
No. 200	

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-64
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT									0.0
				SAND AND GRAVEL - trace of silt, angular to sub-rounded gravel fragments, dry, grey									
-1.0				- thicker sand beds, dark grey									
				- interbedded sand and gravel									
-2.0		1											
				- hole sloughed to 2.7 m									
-3.0				END OF TESTPIT AT 2.7 m NOTE: Buff coloured shaly fragments in spoil pile - possibly bedrock									
-4.0													
-5.0													

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.7 m	COMPLETE 90/05/25
	LOGGED BY JRT	DWG NO.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-64

Depth: 1.5 - 2.0 m

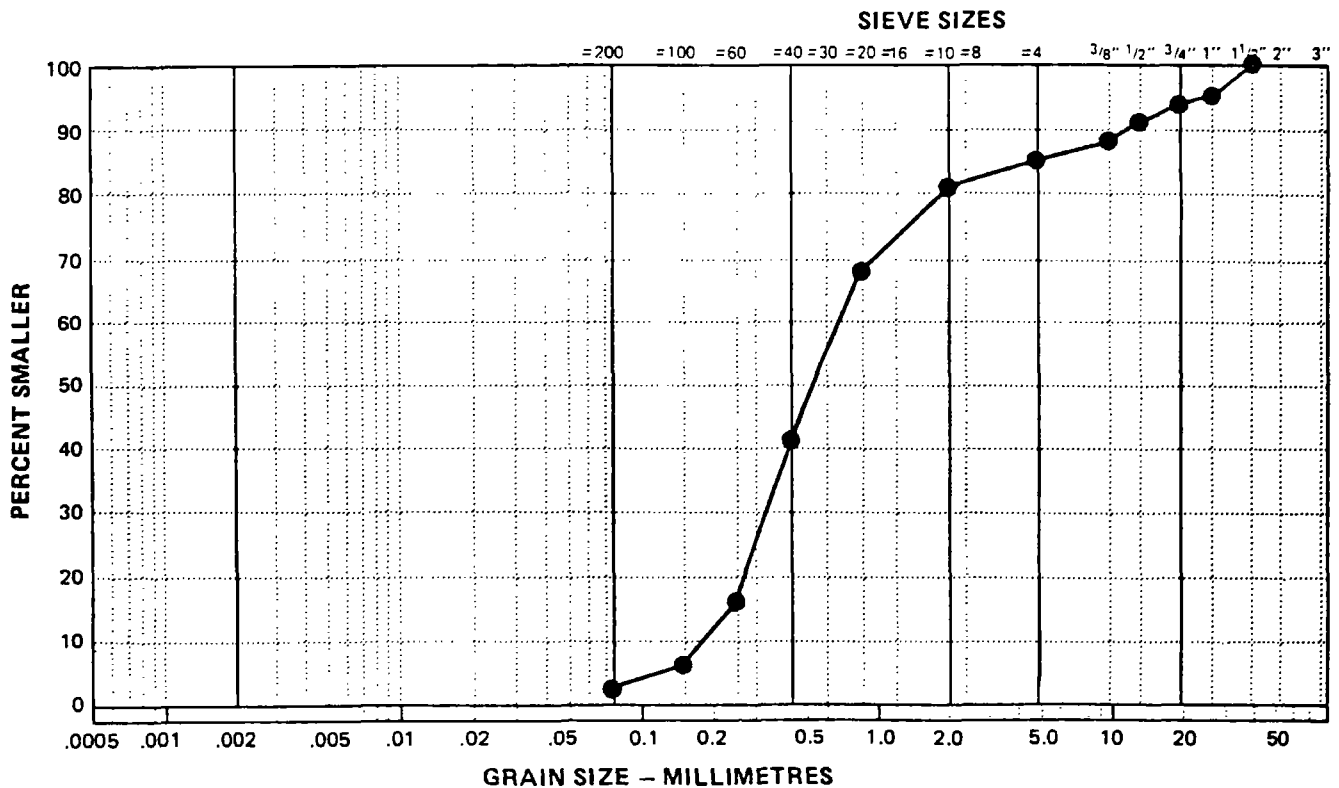
Soil Description: SAND(SP)- some gravel, trace of silt  
 Cu: 3.9  
 Cc: 0.92

Natural Moisture Content: 8.3 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	95
3/4"	95
1/2"	91
3/8"	89
No. 4	85
No. 10	80
No. 20	69
No. 40	41
No. 60	17
No. 100	6
No. 200	3

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-65
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)		
					20	40	60	80	20	40	60	80	20	40	60	80		20	40
0.0				ORGANIC ROOT MAT															0.0
				SAND AND GRAVEL (TILL) - some silt, trace of cobbles and boulders, subangular rock fragments, damp, olive brown															
-1.0		1																	-4.0
-2.0				BEDROCK - weathered shale															-8.0
-3.0				END OF TESTPIT AT 3.0 m															-10.0
-4.0																			-14.0
-5.0																			-16.0

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.0 m

COMPLETE 90/05/26

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# EBA Engineering Consultants Ltd.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-65

Depth: 1.0 - 1.5 m

Soil Description: GRAVEL AND SAND(GM) -some silt

Cu: \_\_\_\_\_

Cc: \_\_\_\_\_

Natural Moisture Content: 10.8 %

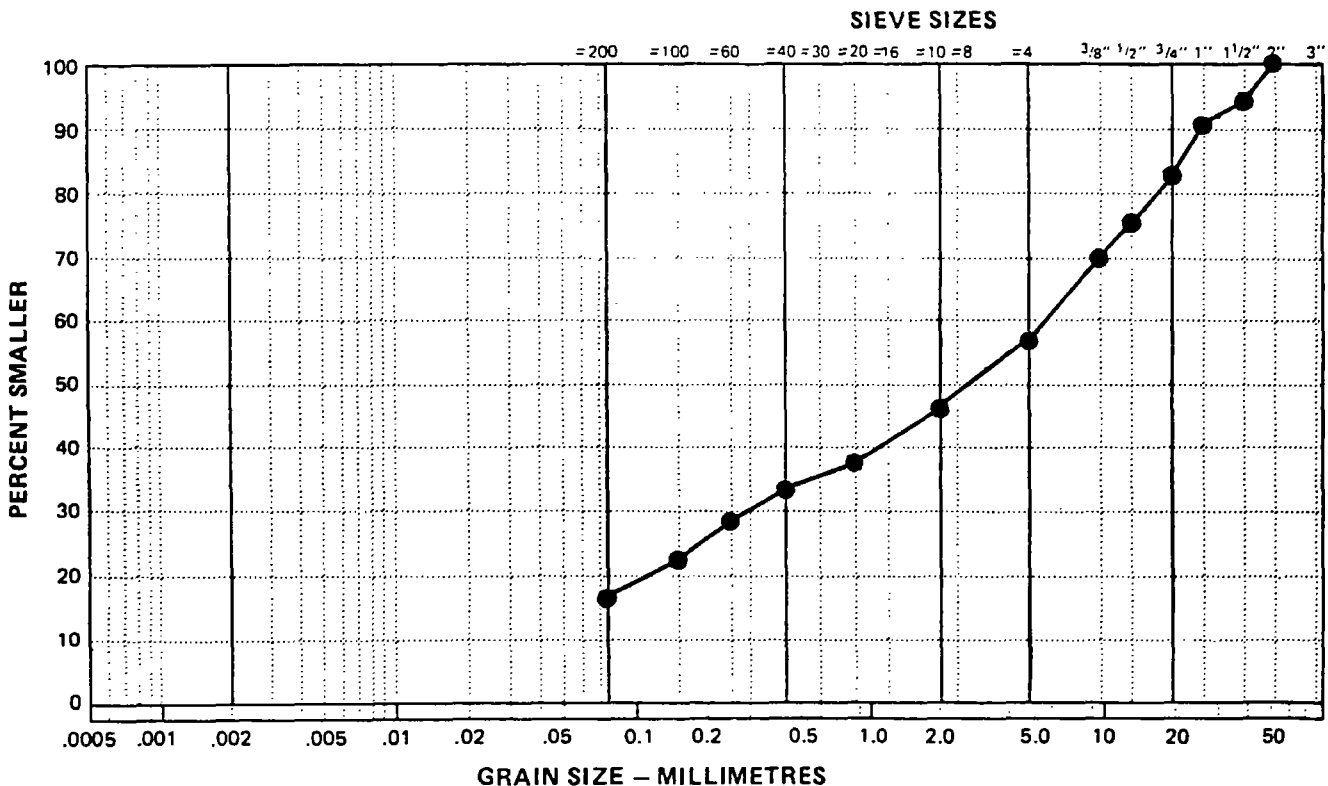
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	95
1"	91
3/4"	83
1/2"	75
3/8"	70
No. 4	58
No. 10	46
No. 20	38
No. 40	33
No. 60	28
No. 100	23
No. 200	17

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-66
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)	
					20	40	60	80	20	40	60	80	20	40	60	80		20
0.0				ORGANIC ROOT MAT - on black organic felt SAND AND GRAVEL (TILL) - some silt, trace of cobbles and boulders to 300 mm in diameter, damp, non-plastic, subangular to subrounded - light brown for top 0.5 m, then olive brown														0.0
-1.0																		-2.0
-2.0				- consistent in appearance														-4.0
-3.0		1																-6.0
-4.0																		-8.0
-5.0				END OF TESTPIT AT 3.5 m														-10.0
																		-12.0
																		-14.0
																		-16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.5 m	COMPLETE 90/05/26
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-66

Depth: 2.0 - 2.5 m

Soil Description: SAND AND GRAVEL (SM)-some silt

Cu: \_\_\_\_\_

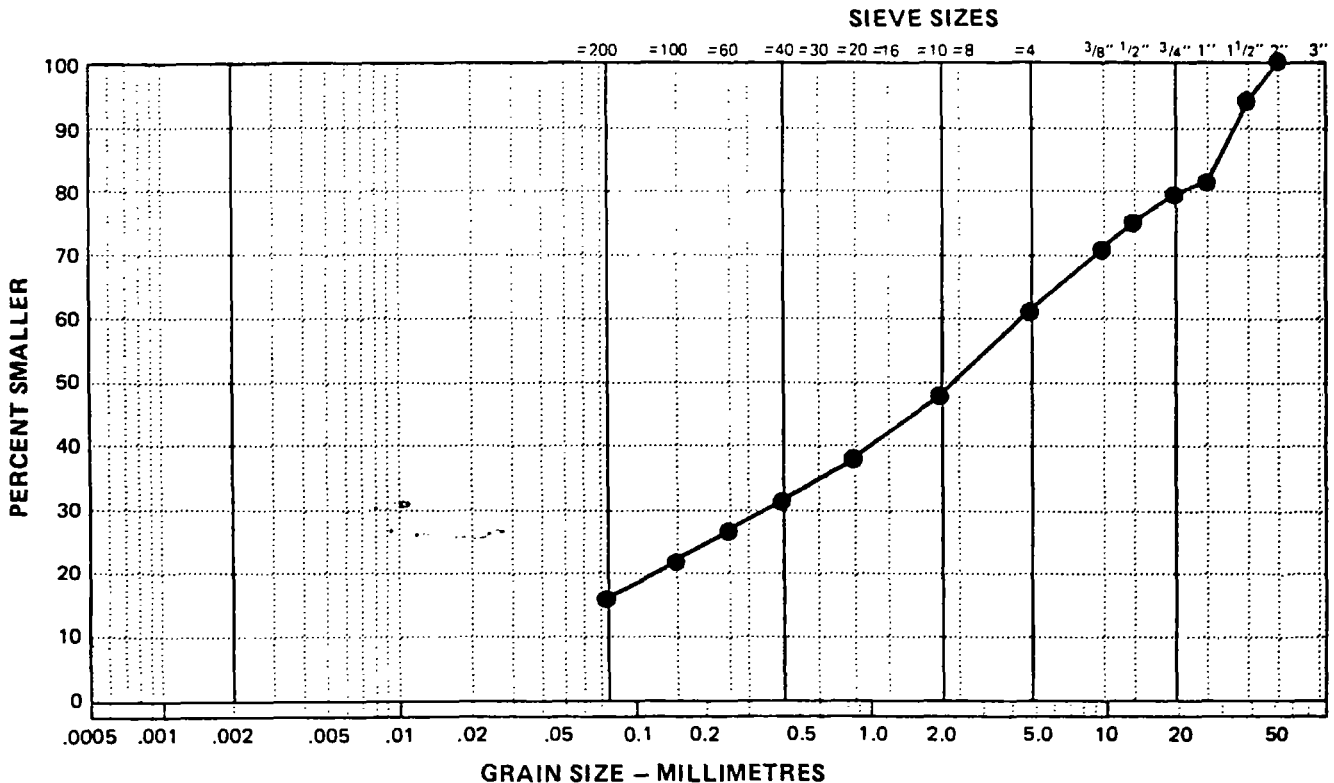
Cc: \_\_\_\_\_

Natural Moisture Content: 9.1 %

Remarks: \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2 "	100
1 1/2 "	95
1 "	81
3/4 "	80
1/2 "	75
3/8 "	71
No. 4	61
No. 10	49
No. 20	38
No. 40	31
No. 60	26
No. 100	21
No. 200	16

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-67
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)	
					20	40	60	80	20	40	60	80	20	40	60	80		20
0.0				ORGANIC ROOT MAT														
				SILT - sandy, trace of gravel, moist, olive brown														
1.0		1		SAND AND GRAVEL - interbedded layers up to 100 mm thick, dry, grey														
				SAND(TILL) - gravelly, some silt, trace of cobbles and boulders to 300 mm in diameter, damp, olive brown														
3.0				END OF TESTPIT AT 3.0 m NOTE: Bedrock outcrops between TP 67 and 68														

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.0 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-68
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)		
					20	40	60	80	20	40	60	80	20	40	60	80		20	40
0.0				ORGANIC ROOT MAT															0.0
				GRAVEL - sandy, trace of silt, dry, grey															
-1.0				imbricated structure, subangular to subrounded particles															-2.0
-2.0				- trace of rounded boulders to 300 mm in diameter															-4.0
-3.0				END OF TESTPIT AT 3.0 m NOTE - Another pit on same knoll - identical (not logged)															-6.0
-4.0																			-8.0
-5.0																			-10.0
																			-12.0
																			-14.0
																			-16.0

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.0 m

COMPLETE 90/05/26

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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-68

Depth: 2.0 - 2.5 m

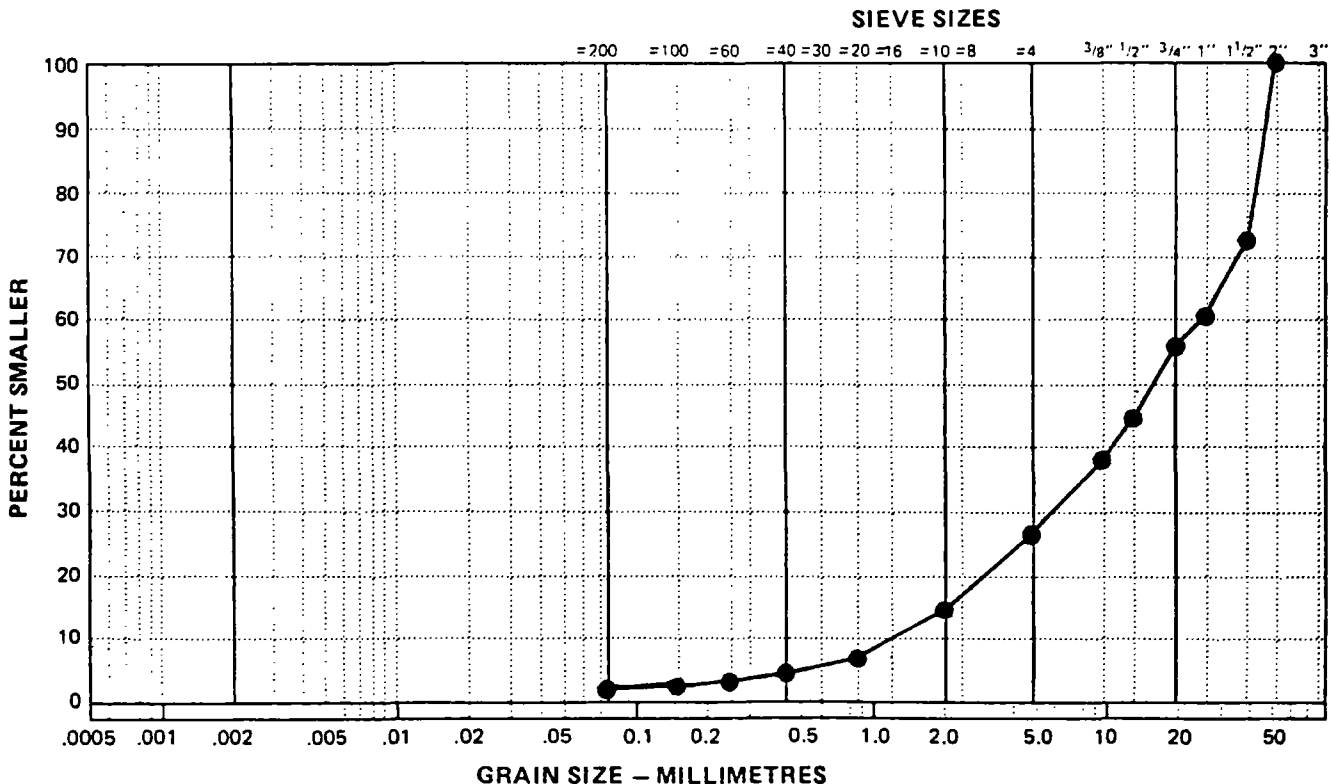
Soil Description: GRAVEL (GW) -sandy, trace of silt  
 Cu: 19.2  
 Cc: 1.1

Natural Moisture Content: 7.1 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	73
1"	60
3/4"	57
1/2"	44
3/8"	38
No. 4	26
No. 10	15
No. 20	7
No. 40	4
No. 60	3
No. 100	3
No. 200	3

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-69
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT												0.0
				SAND - silty, uniform, fine grained - dry to damp, olive brown												
		1		- some silty layers												-2.0
-1.0																-4.0
				- trace of fine gravel												-6.0
-2.0																-8.0
				- hole sloughed in												-10.0
-3.0				END OF TESTPIT AT 3.0 m												-12.0
																-14.0
-4.0																-16.0
-5.0																

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.0 m	COMPLETE 90/05/26	
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-70
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> NO RECOVERY
	<input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON
	<input type="checkbox"/> 75 mm CRREL	<input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	20	40	60	80	20	40	60	80	20	
0.0				ORGANIC ROOT MAT													
				SAND - silty, fine grained - some silt laminations													
1.0				GRAVEL AND SAND - trace of silt, dry, olive brown and grey													
2.0		1		- some gravel lenses, imbricated													
3.0				- hole sloughed in													
4.0				END OF TESTPIT AT 3.5 m													
5.0																	

EBA Engineering Consultants Ltd.  
Whitehorse, Yukon

COMPLETION DEPTH 3.5 m

COMPLETE 90/05/26

LOGGED BY JRT

DWG NO.

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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-70

Depth: 2.0 - 2.5 m

Soil Description: GRAVEL AND SAND(GM)-some silt

Cu: \_\_\_\_\_

Cc: \_\_\_\_\_

Natural Moisture Content: \_\_\_\_\_ 6.7 %

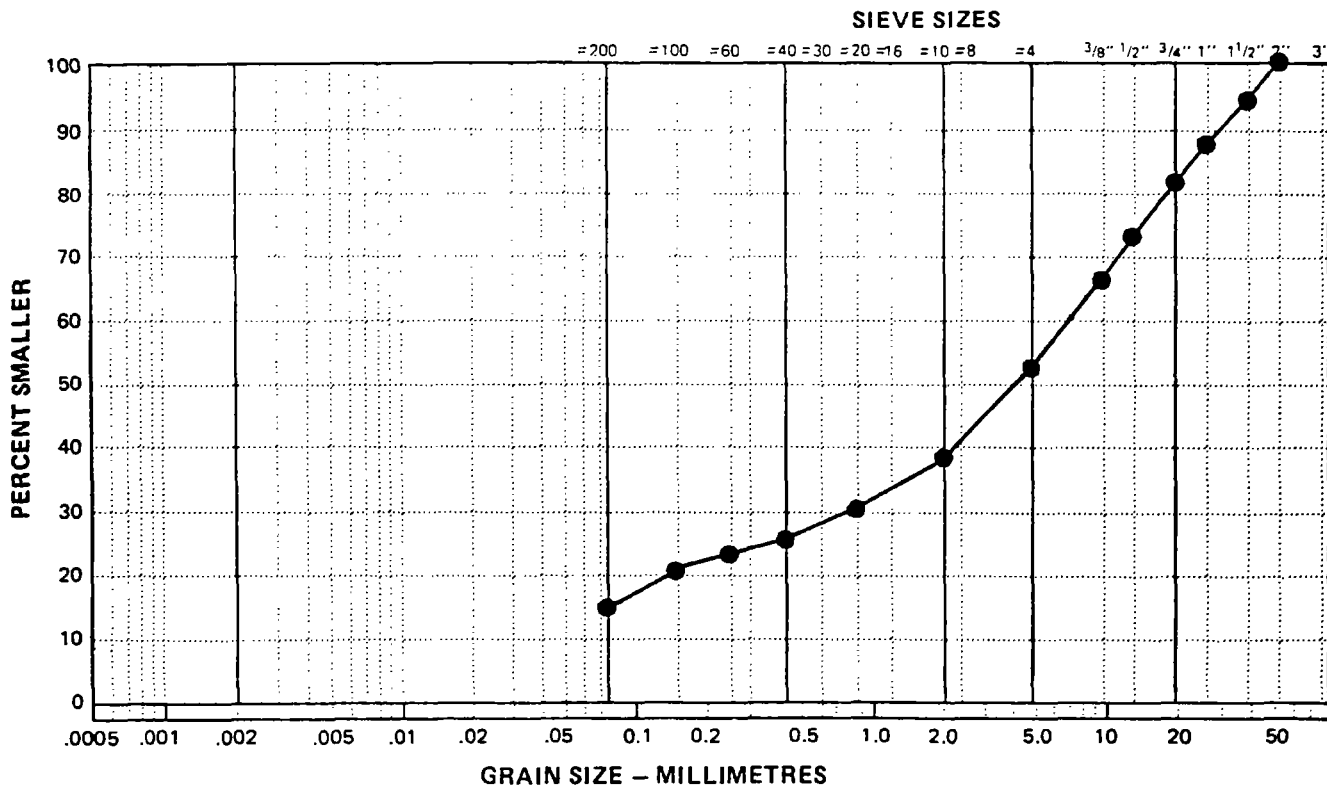
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	95
1"	88
3/4"	82
1/2"	73
3/8"	67
No. 4	53
No. 10	39
No. 20	30
No. 40	26
No. 60	23
No. 100	21
No. 200	15

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-71
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	20	40	20	40	20	40	
0.0				ORGANIC ROOT MAT									0.0
				SAND AND GRAVEL - some silt, dry, olive brown and grey									
				- some gravel lenses, imbricated structure									-2.0
-1.0				- sand lens - trace of gravel, dark grey									-4.0
-2.0		1											-6.0
-3.0													-8.0
				END OF TESTPIT AT 3.5 m									-10.0
-4.0													-12.0
													-14.0
-5.0													-16.0

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COMPLETION DEPTH 3.5 m

COMPLETE 90/05/26

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-72
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT												0.0	
				SILT - sandy, trace of gravel, (colluvium)													
				GRAVEL - sandy, trace of silt, dry, olive brown and grey												2.0	
1.0																4.0	
				- sand lens 1.5 - 2.0 m												6.0	
2.0		1														8.0	
3.0																10.0	
				END OF TESTPIT AT 3.5 m												12.0	
4.0																14.0	
5.0																16.0	

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COMPLETION DEPTH 3.5 m	COMPLETE 90/05/26
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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-72

Depth: 2.0 -2.5 m

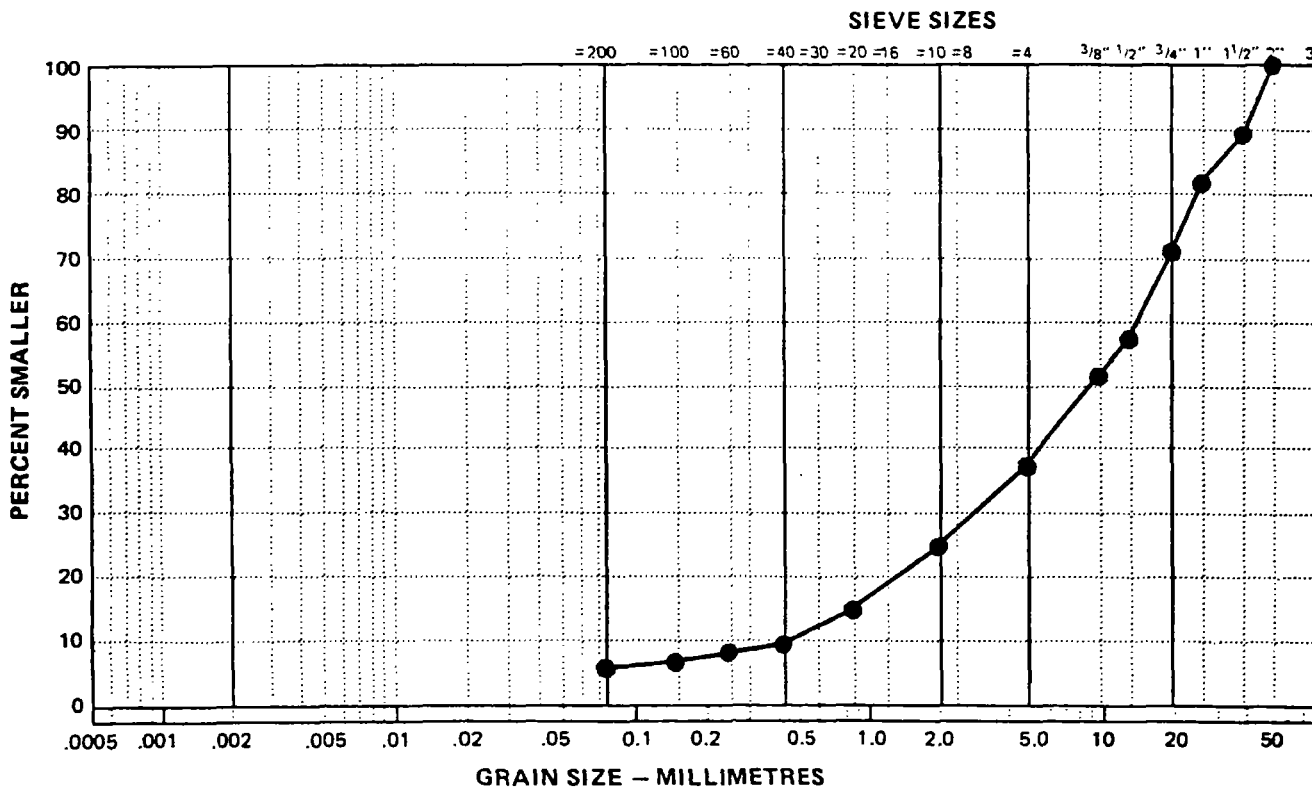
Soil Description: GRAVEL (GW/GM)-sandy, trace of silt  
 Cu: 33.3  
 Cc: 1.3

Natural Moisture Content: 4.4 %

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
2"	100
1 1/2"	90
1"	82
3/4"	71
1/2"	57
3/8"	52
No. 4	38
No. 10	24
No. 20	15
No. 40	10
No. 60	8
No. 100	7
No. 200	6

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-73
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	
0.0				ORGANIC ROOT MAT												0.0
				SAND AND GRAVEL - silty, dry, olive brown and grey												2.0
				BEDROCK - shale												4.0
-1.0				END OF TESTPIT AT 1.0 m NOTE - Immediately upslope from TP 72 - No samples taken												4.0
																6.0
-2.0																8.0
																10.0
-3.0																12.0
																14.0
-4.0																16.0
-5.0																

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 1.0 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-74
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	20	40	20	40	20	40	
0.0				ORGANIC ROOT MAT									0.0
				SAND AND GRAVEL - some silt, subrounded to subangular, trace of cobbles and boulders to 300 mm in diameter damp, grey and brown									-2.0
-1.0													-4.0
-2.0													-6.0
-3.0		1											-8.0
				END OF HOLE AT 3.5 m - Hole by 'Cat' camp, just downslope of phyllite cored ridge									-10.0
-4.0													-12.0
													-14.0
-5.0													-16.0

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-75
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	20	40	20	40	20	40	
0.0				ORGANIC ROOT MAT									0.0
				SAND AND GRAVEL - colluvium with weathered B/R pieces									
-1.0				BEDROCK - phyllite - weathered to 1.5 m, then more intact									-2.0
-2.0				END OF TEST PIT AT 2.0 m NOTE: No samples taken									-4.0
-3.0													-6.0
													-8.0
													-10.0
													-12.0
													-14.0
													-16.0
5.0													

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COMPLETION DEPTH 2.0 m	COMPLETE 90/05/26
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MT. HUNDRE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-76
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	20	40	60	80	20	40	60	80	20	
0.0				ORGANIC ROOT MAT with olive brown and black organic silt												0.0
				SAND- colluvium, silty, some gravel, cobbles and boulders, damp, brown												2.0
-1.0				BEDROCK- weathered shale breaks into sand and gravel sized particles, dry, dark grey												4.0
				END OF TESTPIT AT 2.8 m NOTE: No samples taken												10.0
-2.0																8.0
																12.0
																14.0
																16.0
5.0																

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COMPLETION DEPTH 2.8 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-77
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)	
					20	40	60	80	20	40	60	80	20	40	60	80		20
0.0				ORGANIC ROOT MAT														
				SAND - silty, gravelly colluvium														
				BEDROCK - phyllite, dark grey, weathered for about 1.0 m then more intact														
-1.0																		
-2.0																		
-3.0																		
-4.0																		
-5.0				END OF TESTPIT AT 3.5 m														

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.5 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-78
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPDOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	20	40	20	40	20	40	
0.0				ORGANIC ROOT MAT									0.0
				SAND - silty colluvium and weathered bedrock - boulders to 400 mm in diameter									2.0
-1.0				BEDROCK - phyllite, dark grey, numerous quartz stringers									4.0
-2.0													6.0
-3.0													8.0
-4.0				END OF TESTPIT AT 3.5 m NOTE: No samples taken									12.0
-5.0													16.0



# EBA Engineering Consultants Ltd.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-79

Depth: 2.0 - 2.5 m

Soil Description: SAND(SM)-silty, gravelly

Cu: 1000

Cc: 0.31

Natural Moisture Content: 10.3 %

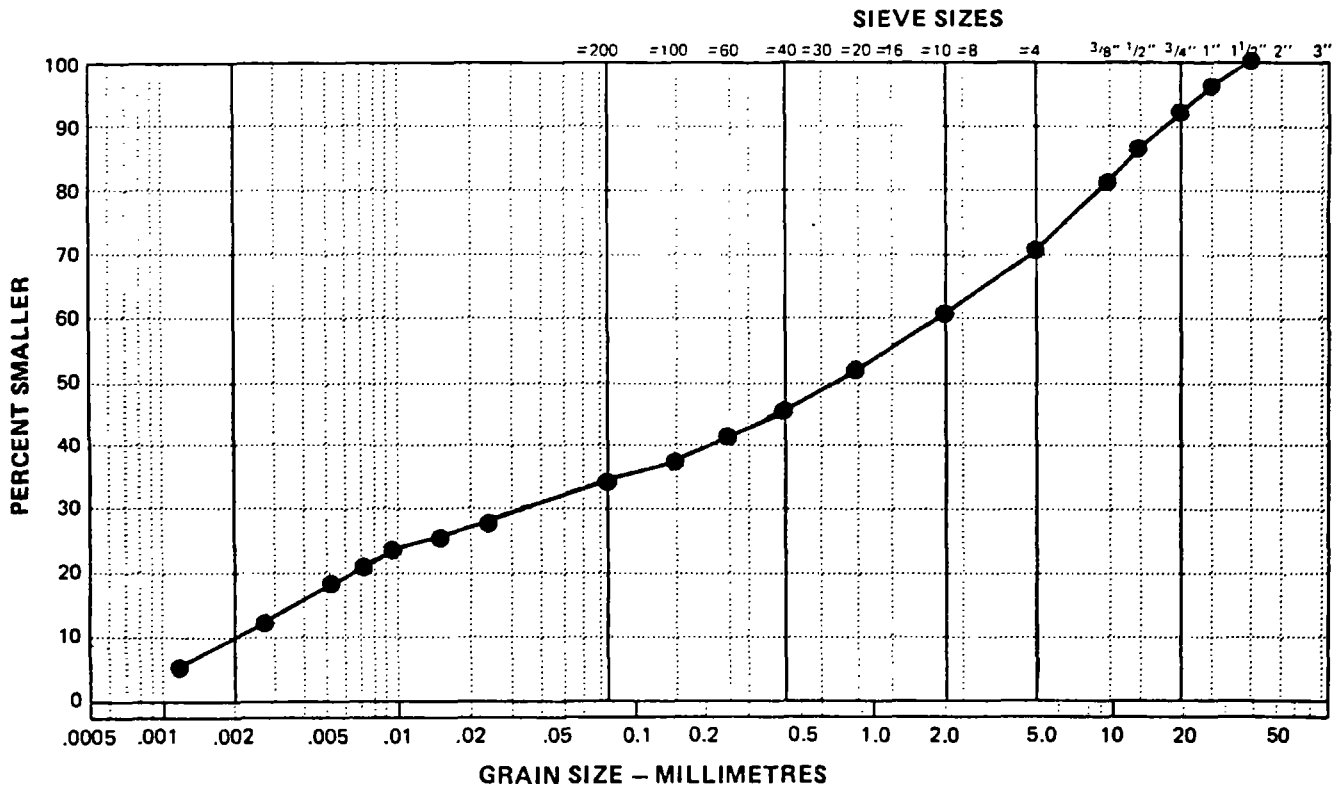
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	96
3/4"	92
1/2"	87
3/8"	82
No. 4	71
No. 10	60
No. 20	52
No. 40	46
No. 60	42
No. 100	38
No. 200	34

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-80
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	20	40	20	40	20	40	
0.0				ORGANIC ROOT MAT									0.0
				SILT - sandy, some angular gravel, brown (colluvium)									
				BEDROCK - phyllite weathered from 0.4 - 1.0 m then intact - large intact pieces (300 mm in diameter) in spoil pile									2.0
-1.0													4.0
													6.0
-2.0													8.0
													10.0
-3.0				END OF TESTPIT AT 2.8 m NOTE: No samples taken									12.0
													14.0
-4.0													16.0
-5.0													

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 2.8 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-81
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				PERCENT SAND				PERCENT FINES				DEPTH (ft)	
					20	40	60	80	20	40	60	80	20	40	60	80	20	40	60		80
0.0				ORGANIC ROOT MAT																	0.0
				SILT - sandy, some gravel, orange brown																	
				SAND(TILL) - silty, gravelly, trace of clay, trace of cobbles and boulders to 200 mm in diameter, moist, light greyish brown																	-2.0
-1.0		1																			-4.0
-2.0																					-6.0
				BEDROCK - phyllite, weathered																	-8.0
-3.0				END OF TESTPIT AT 2.8 m																	-10.0
-4.0																					-12.0
																					-14.0
-5.0																					-16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.8 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-82
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT													0.0
				SILT - colluvium, sandy, some gravel, trace of cobbles, olive brown - then organic layer at 1.0 m													2.0
1.0				SAND(TILL) - silty, gravelly, trace of clay, trace of cobbles and boulders to 200 mm in diameter, moist, light greyish brown													4.0
2.0		1															6.0
3.0																	10.0
4.0				END OF TESTPIT AT 4.0 m													14.0
5.0																	16.0

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COMPLETION DEPTH 4.0 m

COMPLETE 90/05/26

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-83
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)	
					20	40	60	80	20	40	60	80	20	40	60	80		20
0.0				ORGANIC ROOT MAT														
				SILT - sandy, some gravel and cobbles, orange brown, (colluvium)														
				BEDROCK - phyllite - intact														
-1.0				END OF TESTPIT AT 1.0 m NOTE: No samples taken														
-2.0																		
-3.0																		
-4.0																		
-5.0																		

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COMPLETION DEPTH 1.0 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-84
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)
					20	40	60	80	20	40	
0.0				ORGANIC ROOT MAT							0.0
				SILT - sandy, some gravel and cobbles, orange brown, (colluvium)							
				BEDROCK - phyllite, intact							
-1.0				END OF TESTPIT AT 1.0 m NOTE: No samples taken							-4.0
-2.0											-6.0
-3.0											-10.0
-4.0											-12.0
-5.0											-16.0

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-85
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT													
				SILT - sandy, trace of gravel, orange brown (colluvium)													
				SAND(TILL) - silty, gravelly, trace of clay, trace of cobbles and boulders to 200 mm in diameter, moist, light greyish brown													
-1.0																	
-2.0		1															
-3.0																	
				- possible BEDROCK(?)													
-4.0				END OF TESTPIT AT 3.8 m													
-5.0																	

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COMPLETION DEPTH 3.8 m

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-86
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL				DEPTH (ft)	
					20	40	60	80	20	40	60		80
0.0				ORGANIC ROOT MAT SILT- orange brown, (colluvium)									0.0
0.0				SAND(TILL) - silty, gravelly, trace of clay, trace of cobbles and boulders to 200 mm in diameter, moist, light greyish brown									0.0
1.0													1.0
2.0				BEDROCK - phyllite, grey									2.0
3.0													3.0
3.2				END OF TESTPIT AT 3.2 m									3.2
4.0													4.0
5.0													5.0

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-87
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	20	40	60	80	20	40	60	80	20	
0.0				ORGANIC ROOT MAT												0.0
				SILT - colluvium, orange brown												
				BEDROCK - phyllite, dark grey, quartz stringers												-2.0
-1.0																-4.0
-2.0																-6.0
				END OF TESTPIT AT 2.3 m NOTE: No samples taken												-8.0
-3.0																-10.0
																-12.0
-4.0																-14.0
-5.0																-16.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.3 m	COMPLETE 90/05/26
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-88
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)					
					20	40	60	80	20	40		60	80			
					PLASTIC M.C. LIQUID			PERCENT SAND			PERCENT FINES					
					20	40	60	80	20	40	60	80	20	40	60	80
0.0				ORGANIC ROOT MAT												0.0
				GRAVEL - platy, clean (colluvium)												
-1.0				SAND(TILL) - silty, gravelly, trace of clay, trace of cobbles and boulders to 300 mm in diameter, low plastic, moist, greyish brown												-2.0
-2.0																-4.0
-3.0		1														-6.0
				END OF TESTPIT AT 3.4 m												-8.0
-4.0																-10.0
																-12.0
																-14.0
5.0																-16.0

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-88

Depth: 2.5 - 3.0 m

Soil Description: GRAVEL AND SAND(GM)- silty

Cu: \_\_\_\_\_

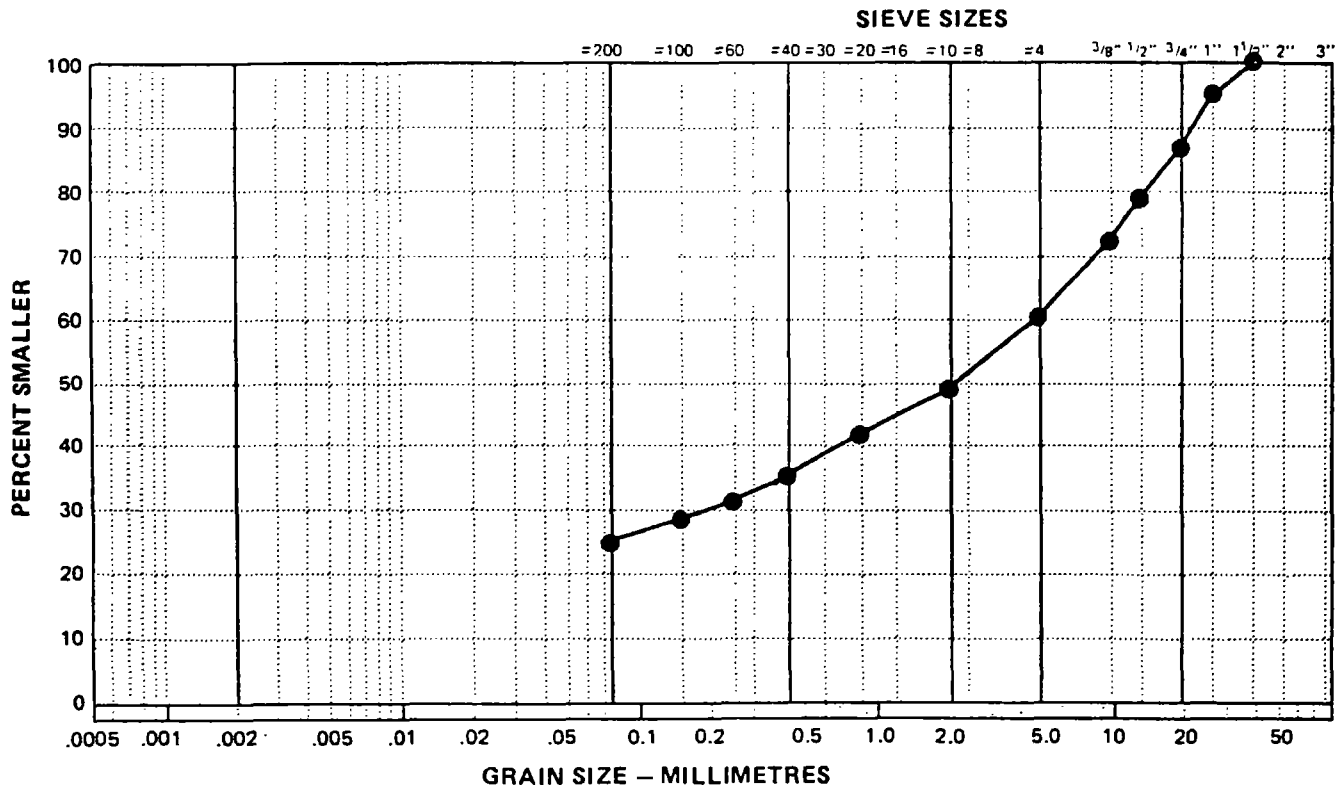
Cc: \_\_\_\_\_

Natural Moisture Content: 8.6 %

Remarks: \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	95
3/4"	87
1/2"	79
3/8"	73
No. 4	61
No. 10	49
No. 20	41
No. 40	35
No. 60	32
No. 100	28
No. 200	25

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-89
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)								
					20	40	60	80	20	40		60	80						
					PLASTIC			PERCENT SAND			PERCENT FINES								
					M.C.			20			40			60			80		
					20			40			60			80					
0.0				ORGANIC ROOT MAT														0.0	
				GRAVEL - platy, clean, (colluvium)															
1.0				SAND(TILL) - silty, some gravel, trace of clay, trace of cobbles and boulders to 300 mm in diameter, low plastic, moist, greyish brown														2.0	
2.0																			4.0
3.0																		6.0	
4.0																		8.0	
5.0																		10.0	
				END OF TESTPIT AT 3.5 m NOTE: Testpit downslope of TP 88														12.0	
																		14.0	
																		16.0	

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Whitehorse, Yukon

COMPLETION DEPTH 3.5 m

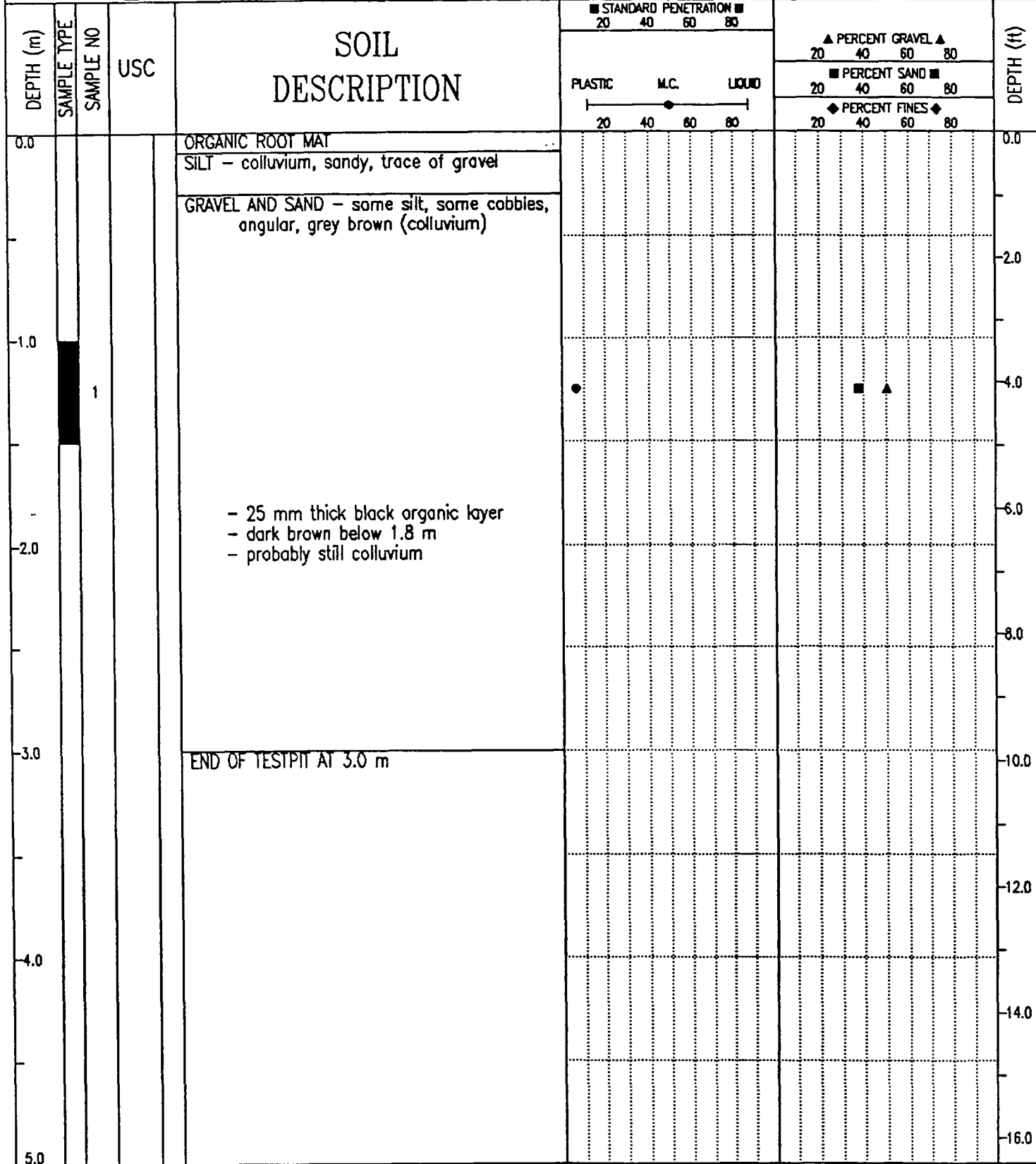
COMPLETE 90/05/26

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-90
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: Q201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		



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COMPLETION DEPTH 3.0 m

COMPLETE 90/05/26

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## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-90

Depth: 1.0 - 1.5 m

Soil Description: GRAVEL AND SAND(GM)-some silt

Cu: \_\_\_\_\_

Cc: \_\_\_\_\_

Natural Moisture Content: 6.4 %

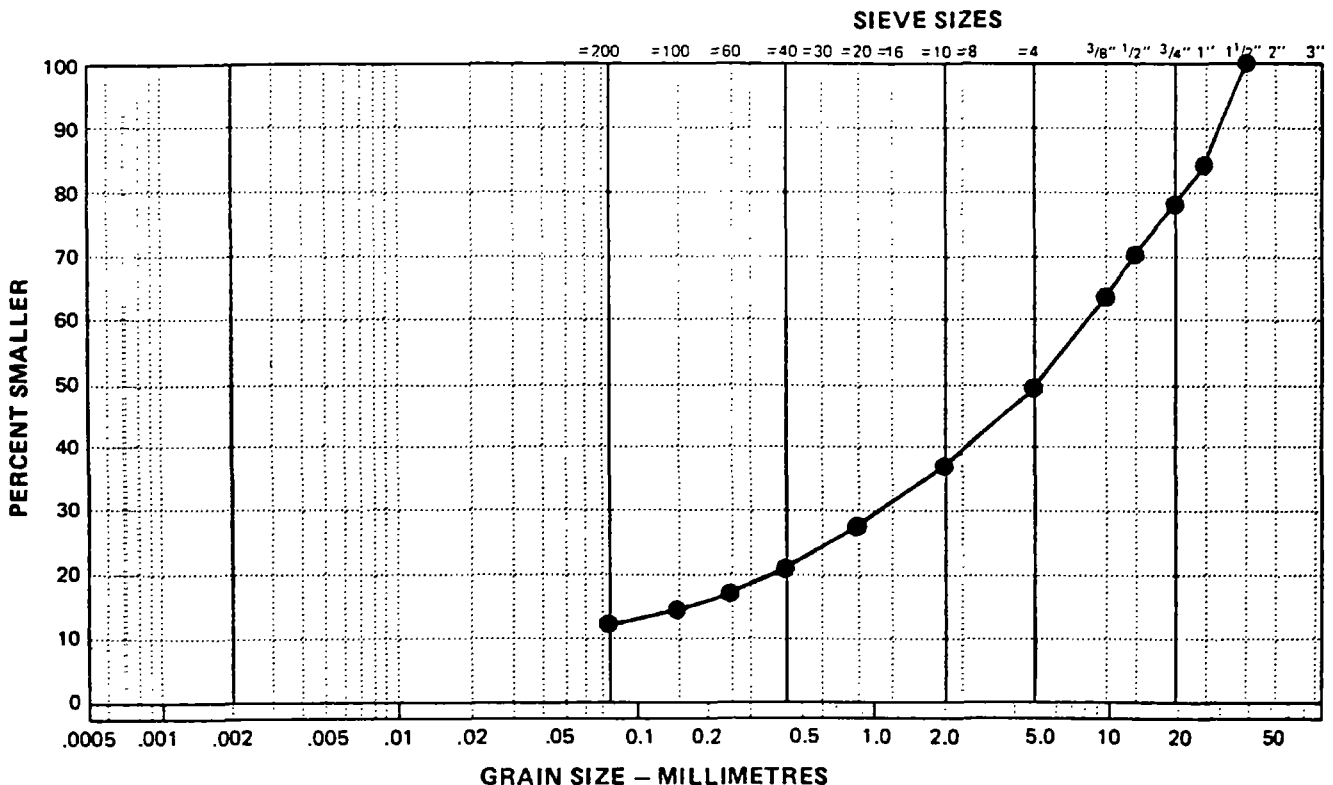
Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	85
3/4"	79
1/2"	71
3/8"	64
No. 4	50
No. 10	37
No. 20	28
No. 40	21
No. 60	17
No. 100	15
No. 200	12

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-91
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	20	40	20	40	20	40	
0.0				ORGANIC ROOT MAT								0.0	
				SILT - sandy, some gravel, orange brown (colluvium)									
				SAND(TILL) - silty, gravelly, trace of clay, trace of cobbles and boulders to 200 mm in diameter, moist, light grey brown - consistent with depth								-2.0	
-1.0												-4.0	
-2.0												-6.0	
-3.0												-8.0	
				END OF TESTPIT AT 3.0 m								-10.0	
-4.0												-12.0	
												-14.0	
-5.0												-16.0	

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COMPLETION DEPTH 3.0 m	COMPLETE 90/05/26
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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-92
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			PERCENT SAND			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	60	80	20	40	60	80	
0.0				ORGANIC ROOT MAT													0.0
				SILT - sandy, some gravel, orange brown, (colluvium)													
				BEDROCK - phyllite, dark grey, weathered to 1.5 m - flat pieces to 300 mm in diameter in spoil pile													-2.0
-1.0																	-4.0
				END OF TESTPIT AT 1.7 m NOTE: No samples taken													-6.0
-2.0																	-8.0
																	-10.0
-3.0																	-12.0
																	-14.0
-4.0																	-16.0
5.0																	

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Whitehorse, Yukon

COMPLETION DEPTH 1.7 m

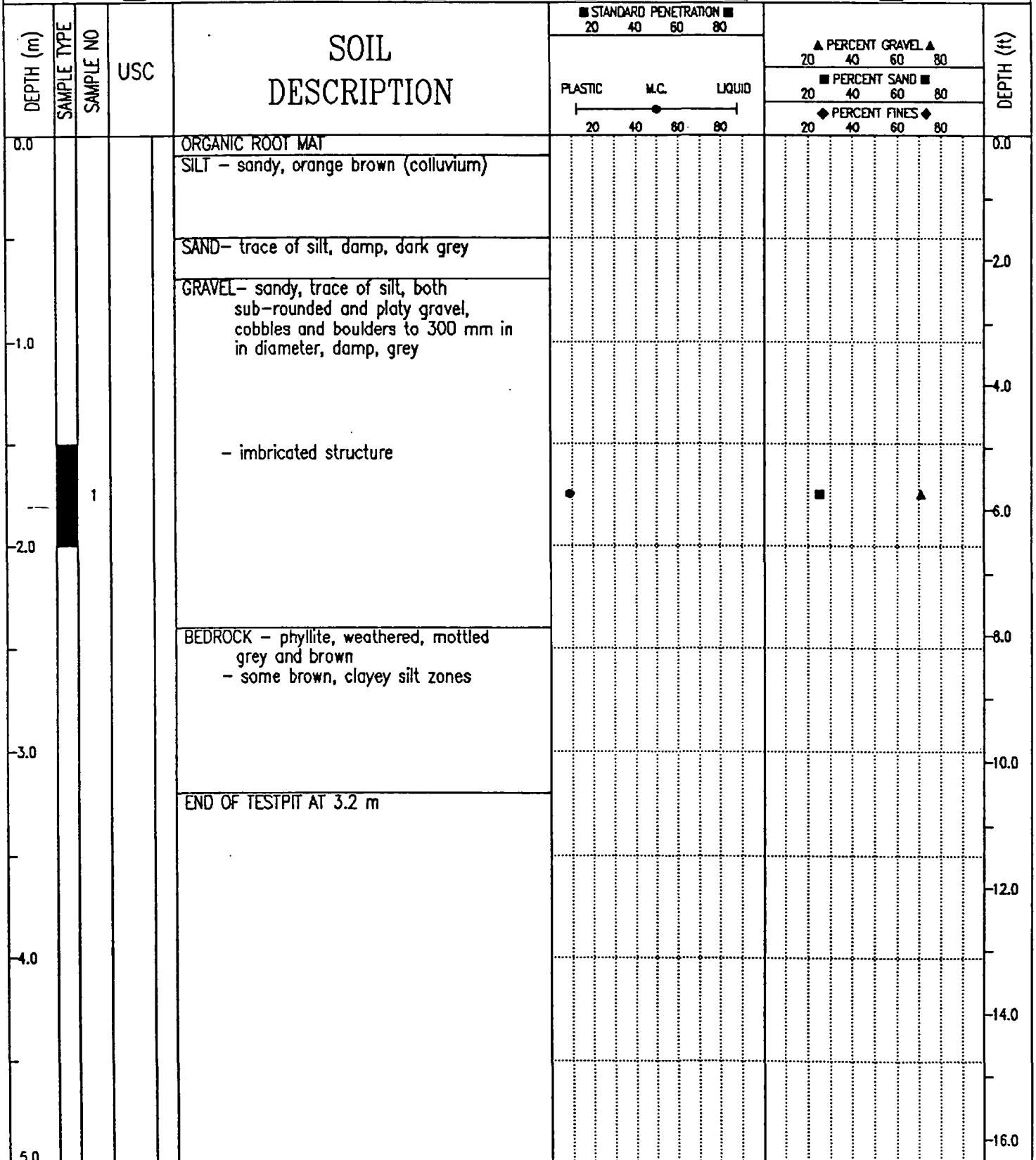
COMPLETE 90/05/26

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MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-93
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		



EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 3.2 m	COMPLETE 90/05/26
	LOGGED BY JRT	DWG NO.

# EBA Engineering Consultants Ltd.

## PARTICLE - SIZE ANALYSIS OF SOILS

Project: Mt. Hundere Access Road  
km 44 Campbell Highway

Project Number: 0201-10314

Date Tested: 1990-05-31

Borehole Number: 10314-93

Depth: 1.5 - 2.0 m

Soil Description: GRAVEL (GP)-sandy, trace of silt

Cu: 31.1

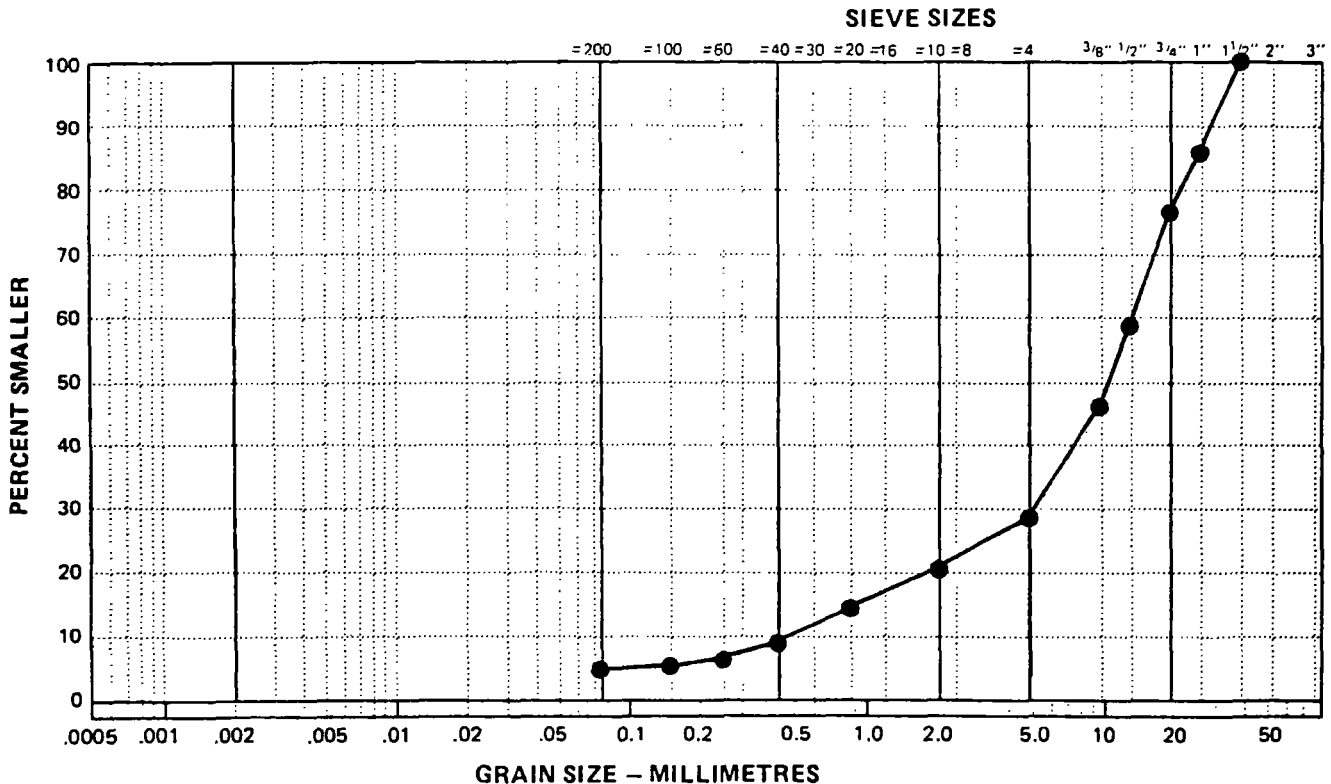
Cc: 4.0

Natural Moisture Content: 9.0 %

Remarks: \_\_\_\_\_

SIEVE	PERCENTAGE PASSING
3"	
1 1/2"	100
1"	86
3/4"	77
1/2"	59
3/8"	47
No. 4	29
No. 10	20
No. 20	14
No. 40	9
No. 60	7
No. 100	5
No. 200	4

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-94
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E -	ELEVATION 0.00 (m)
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL			DEPTH (ft)								
					20	40	60	80	20	40		60	80						
					PLASTIC			PERCENT SAND			PERCENT FINES								
					M.C.			20			40			60			80		
					LIQUID			20			40			60			80		
0.0				ORGANIC ROOT MAT															
				SILT - sandy, orange brown (colluvium)															
-1.0				SAND - gravelly, some silt lenses, grey brown															
-2.0				BEDROCK - phyllite, grey															
-3.0				END OF TESTPIT AT 2.5 m NOTE: No samples taken															
-4.0																			
-5.0																			

EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 2.5 m	COMPLETE 90/05/26
	LOGGED BY JRT	DWG NO.

MT. HUNDERE ACCESS ROAD	CLIENT: YUKON ENGINEERING SERVICES	BOREHOLE No. 10314-95
km 44 - CAMPBELL HIGHWAY	BACKHOE: KOMATSU TRACKED	Project No: 0201-10314
NORTH OF WATSON LAKE, YUKON	UTM ZONE: - N - E502043.89	ELEVATION 0.00 (m)
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN.	<input checked="" type="checkbox"/> 75 mm SPOON <input type="checkbox"/> 75 mm CRREL <input type="checkbox"/> 100 mm CRREL

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	USC	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL		PERCENT SAND		PERCENT FINES		DEPTH (ft)
					20	40	20	40	20	40	20	40	
0.0				ORGANIC ROOT MAT									0.0
				SILT - sandy, some angular gravel fragments, orange brown, (colluvium)									
1.0				SAND - some gravel, trace of silt to clean, angular gravel fragments, moist, dark grey									4.0
2.0		1											6.0
				END OF TESTPIT AT 2.4 m									8.0
3.0													10.0
4.0													12.0
													14.0
5.0													16.0

COMPLETION DEPTH 2.4 m		COMPLETE 90/05/26	
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