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## **APPENDIX A**



Approximate Scale 1:23 000



**BRUCE GEOTECHNICAL CONSULTANTS INC.**  
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: Jericho Diamond Project:  
1996 Granular Borrow Investigations  
Factual Field Report

TITLE: Borehole and Test Pit Locations

CLIENT:

Canamera Geological Ltd.

PROJECT No.:

0081-001-05

FIGURE No.:

2.

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## LEGEND

### Material Type



Sand



Silt



Gravel



Sand and Ice



Sand and Silt



Sand and Gravel



Bedrock



Ice

### Sampling Method



Grab



Core

### Instrumentation



Thermistor Cable

Temperature Bead

### Unified Soil Classification System

SW - Well graded sands, gravelly sands, little or no fines

SP - Poorly graded sands, little or no fines

SM - Silty sands, sand-silt mixtures

### National Research Council of Canada Classification of Ground Ice

Nbn - Well bonded, no excess ice.

Nbe - Well bonded, excess ice.

Vc - Ice coatings on soil particles

Vr - Random or irregularly oriented ice

Vs - Stratified or distinctly oriented ice



**BRUCE GEOTECHNICAL CONSULTANTS INC.**

AN APPLIED EARTH SCIENCES COMPANY

PROJECT: Jericho Diamond Project: 1996  
Granular Borrow Investigations  
Factual Field Report

TITLE: Legend for Borehole Logs

CLIENT:

Canamera Geological Ltd.

PROJECT No.:  
0081-001-04

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# DRILL HOLE #96-BGC-07

Page 1 of 1  
Project No. 0081-001-04

Depth (m)	Sample Type Recovery & Number	Blows/0.15m	Symbols	Date Drilled: 1 AUG 96	LOCATION: JERICHO-BORROW	INSTRUMENT INSTALLATION / ICE	POCKET PENETROMETER VALUES kPa							
				Rig: HT 700	ELEVATION: 482.90		100	200	300	400				
				Contractor: FOUNDEX	CO-ORD: E 479,135 N 7,322,962		SPT (N) Blows/ft							
				Hammer Type: ODEX / AIR	SOIL DESCRIPTION		10	20	30	40				
				MOISTURE CONTENT %										
				10	20	30	40							
0				NOTES: - All gradation descriptions are field estimates - All samples from CRREL Barrel/ Auger Flights		Thermistor temp. bead location / ICE								
1	1			SAND (SP), medium to coarse, moderately graded, beige		0m-2.6m Unfrozen	X							
2	2			SAND (SW), some gravel, coarse, damp, grey			X							
3	3			ICE, massive		2.6m-4.1m Solid ice			X					
4	4								X					
5	5			SAND (SP), fine to medium uniform, clean, grey  4.57m slight trace pebbles (to 2.0cm), slow hard drilling		4.1m-7.92m Nbn			X					
6	6			SAND (SM), some silt, fine, grey, saturated when thawed					X					
7	7								X					
8				END OF HOLE AT 7.9m										
9														
10														

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**BRUCE GEOTECHNICAL CONSULTANTS INC.**  
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**JERICHO DIAMOND PROJECT  
1996 GRANULAR BORROW  
INVESTIGATIONS**

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Sample ID	96-BGC-05	96-BGC-05	96-BGC-05	96-BGC-05	96-BGC-05
Depth (m)	3.05-3.35	3.35-3.50	3.85-3.96	4.57-4.87	7.52-7.68
Moisture (%)	22.5	21.5	2.2	23.6	26.6

Sample ID	96-BGC-05	96-BGC-07	96-BGC-07	96-BGC-07	96-BGC-07
Depth (m)	10.66-10.86	0.76	2.13	2.74	3.65
Moisture (%)	23.5	1.8	5.8	19.5	20.5

Sample ID	96-BGC-07	96-BGC-07	96-BGC-07	96-BGC-08	96-BGC-08
Depth (m)	4.26	6.19	7.7	1.37	2.9
Moisture (%)	17.2	21.1	22.1	1.6	2.6

Sample ID	96-BGC-08	96-BGC-08	96-BGC-09	96-BGC-09	96-BGC-09
Depth (m)	4.5	5.35-5.80	1.4	2.84	4.26
Moisture (%)	5.2	16.6	1.7	3.4	2.2

# TP 96-J01

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Project No.

Depth (m)	Sample Type Recovery & Number	Blows/0.15m	Symbols	Date Drilled: 24 AUG 96	LOCATION: JERICHO	INSTRUMENT INSTALLATION / ICE	POCKET PENETROMETER VALUES kPa				
				Rig:	ELEVATION:		100	200	300	400	
				Contractor:	CO-ORD:		SPT (N) Blows/ft				
				Hammer Type:	SOIL DESCRIPTION		10	20	30	40	
						Thermistor temp. bead location / ICE	MOISTURE CONTENT %				
NOTES: - All gradation descriptions are field							10	20	30	40	
0				SAND (SW), some gravel to 1cm, some cobbles to 5cm, medium to coarse, damp, clean, well graded on the coarse end							
0.4	1			END OF TEST PIT AT 0.4m							
1											
2											
3											

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**JERICHO DIAMOND PROJECT  
1996 GRANULAR BORROW  
INVESTIGATIONS**

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# TP 96-J02

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Project No.

Depth (m)	Sample Type Recovery & Number	Blows/O. 15m	Symbols	Date Drilled: 24 AUG 96	LOCATION: JERICHO	INSTRUMENT INSTALLATION / ICE	POCKET PENETROMETER VALUES kPa											
				Rig:	ELEVATION:		100	200	300	400	SPT (N) Blows/ft							
				Contractor:	CO-ORD:		10	20	30	40	MOISTURE CONTENT %							
				Hammer Type:	SOIL DESCRIPTION		10	20	30	40								
0				NOTES: - All gradation descriptions are field		Thermistor temp. bead location / ICE												
				gravelly SAND (SW), some cobbles to 8cm, trace silt, moist, well graded														
	1			END OF TEST PIT AT 0.4m														
1																		
2																		
3																		

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**JERICHO DIAMOND PROJECT**  
**1996 GRANULAR BORROW**  
**INVESTIGATIONS**

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Project No.

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# TP 96-J04

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Project No.

Depth (m)	Sample Type Recovery & Number	Blows/0.15m	Symbols	Date Drilled: 24 AUG 96	LOCATION: JERICO	INSTRUMENT INSTALLATION / ICE	POCKET PENETROMETER VALUES kPa				
				Rig:	ELEVATION:		100	200	300	400	
				Contractor:	CO-ORD:		SPT (N) Blows/ft				
				Hammer Type:	SOIL DESCRIPTION		10	20	30	40	
							MOISTURE CONTENT %				
							10	20	30	40	
				NOTES: - All gradation descriptions are field		Thermistor temp. bead location / ICE					
0				SAND (SP), slight trace gravel, medium coarse, poorly graded, clean, moist							
1	1			END OF TEST PIT AT 0.7m			X				
2											
3											

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**BRUCE GEOTECHNICAL CONSULTANTS INC.**  
AN APPLIED EARTH SCIENCES COMPANY

**JERICO DIAMOND PROJECT  
1996 GRANULAR BORROW  
INVESTIGATIONS**

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# EBA Engineering

## LARGE AGGREGATE ANALYSIS REPORT

Project: 1996 Testing Services

Sample Number: 96TP-J01

Address: Yellowknife, N.W.T.

Sample Location: Test Pit J01, Sample 1

Depth = 0.3 m

Project Number: 0701-96-12426

Date Sampled: / / By: \*

Time: Temp:

Client: Bruce Geotechnical Consultants Inc.

Date Tested: 96/10/12 By: FB

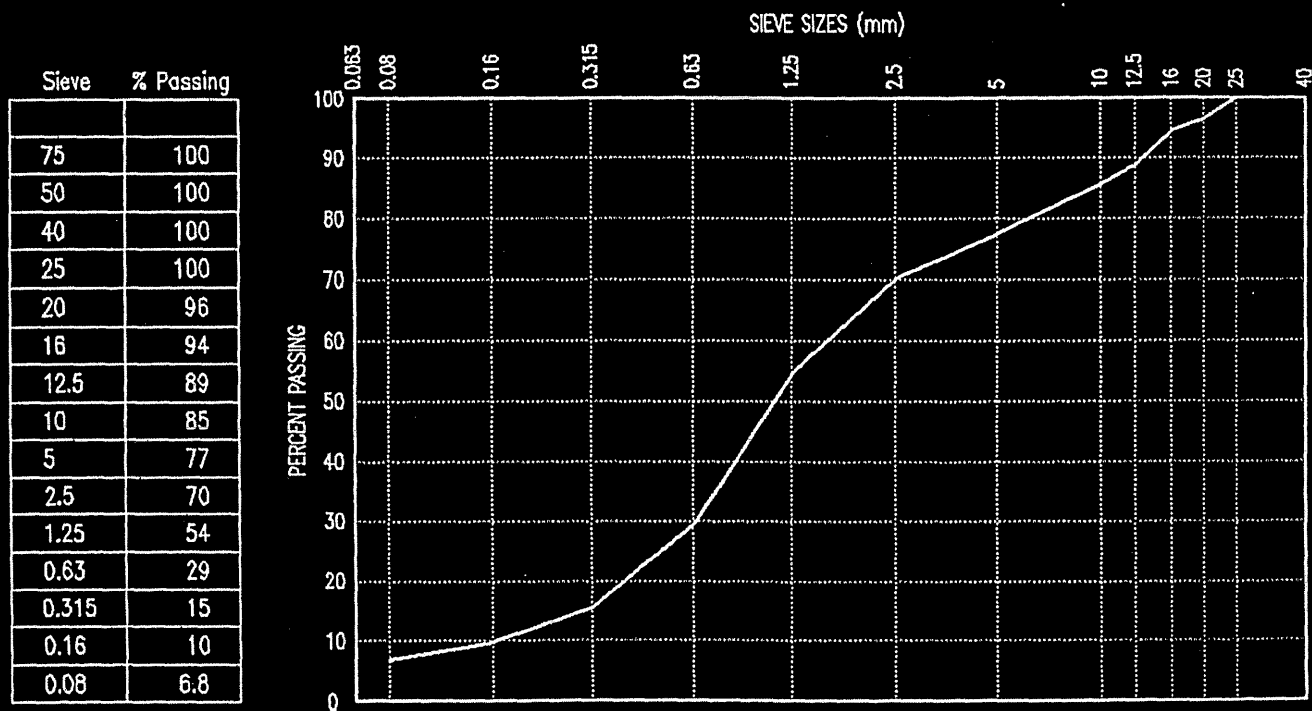
Natural Moisture Content:

Crushed Faces: Faces:

Attention: Mr. Wayne Savingy P.Eng.

Soil Description: SAND - gravelly, trace fines

Remarks: \* sampled by client



Reviewed By:

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# EBA Engineering

## LARGE AGGREGATE ANALYSIS REPORT

Project: 1996 Testing Services

Sample Number: 96TP-J02

Address: Yellowknife, N.W.T.

Sample Location: Test Pit J02, Sample 1

Depth = 0.3 m

Project Number: 0701-96-12426

Date Sampled: / / By: \*

Time: Temp:

Client: Bruce Geotechnical Consultants Inc.

Date Tested: 96/10/12

By: BF

Natural Moisture Content:

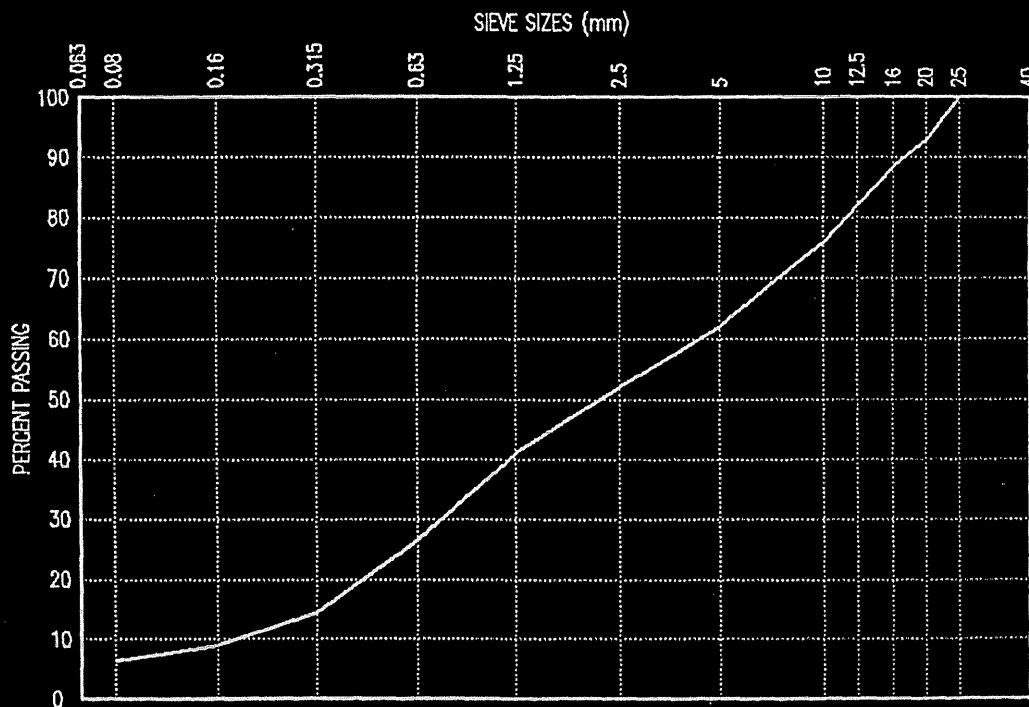
Crushed Faces: Faces:

Attention: Mr. Wayne Savings P.Eng.

Soil Description: SAND AND GRAVEL - trace fines

Remarks: \* sample sampled by client

Sieve	% Passing
75	100
50	100
40	100
25	100
20	93
16	88
12.5	82
10	76
5	62
2.5	52
1.25	41
0.63	26
0.315	14
0.16	9
0.08	6.5



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## LARGE AGGREGATE ANALYSIS REPORT

Project: 1996 Testing Services

Sample Number: 96TP-J03

Address: Yellowknife, N.W.T.

Sample Location: Test Pit J03, Sample 1

Depth = 0.5 m

Project Number: 0701-96-12426

Date Sampled: / / By: \*

Time: Temp:

Client: Bruce Geotechnical Consultants Inc.

Date Tested: 96/10/12 By: BF

Natural Moisture Content:

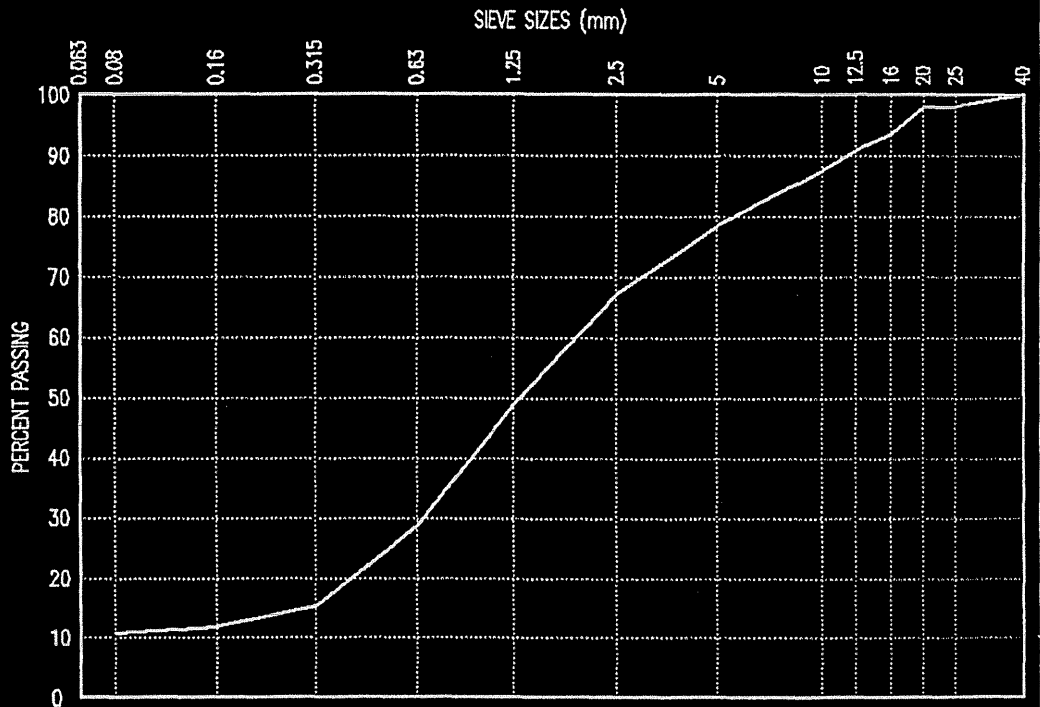
Crushed Faces: Faces:

Attention: Mr. Wayne Savingy P.Eng.

Soil Description: SAND - gravelly, some fines

Remarks: \* sampled by client

Sieve	% Passing
75	100
50	100
40	100
25	98
20	98
16	93
12.5	91
10	88
5	78
2.5	67
1.25	49
0.63	29
0.315	15
0.16	12
0.08	10.6



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# EBA Engineering

## LARGE AGGREGATE ANALYSIS REPORT

Project: 1996 Testing Services

Address: Yellowknife, N.W.T.

Project Number: 0701-96-12426

Date Sampled: / / By: \*

Client: Bruce Geotechnical Consultants Inc.

Attention: Mr. Wayne Savingy P.Eng.

Soil Description: SAND - traces of gravel and fines

Remarks: \* sampled by client

Sample Number: 96TP-J04

Sample Location: Test Pit J04, Sample 1

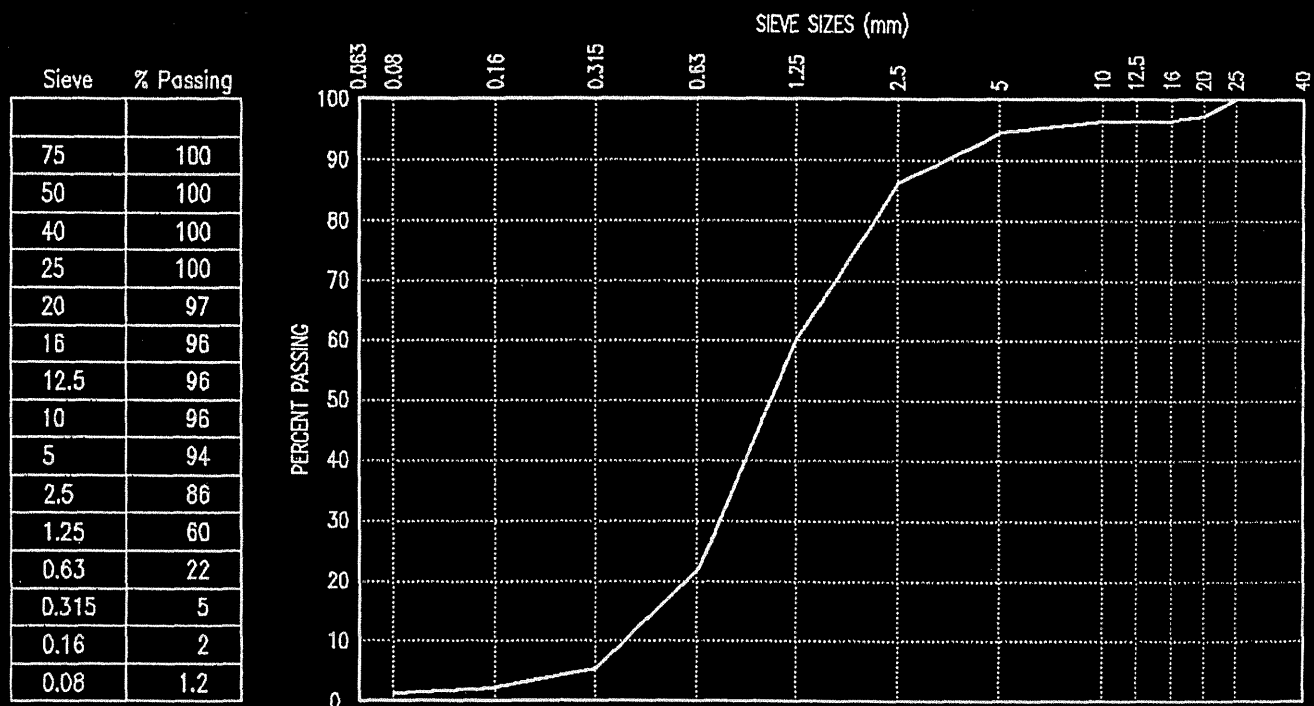
Depth = 0.6 m

Time: Temp:

Date Tested: 96/10/12 By: BF

Natural Moisture Content:

Crushed Faces: Faces:



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### NATURAL MOISTURE CONTENTS

Sample No.	96-BGC-J01	96-BGC-J02	96-BGC-J03	96-BGC-J04	
Depth (m)	0.3	0.3	0.4	0.6	
Moisture (%)	4.9	4.5	5.5	3.2	