

APPENDIX C

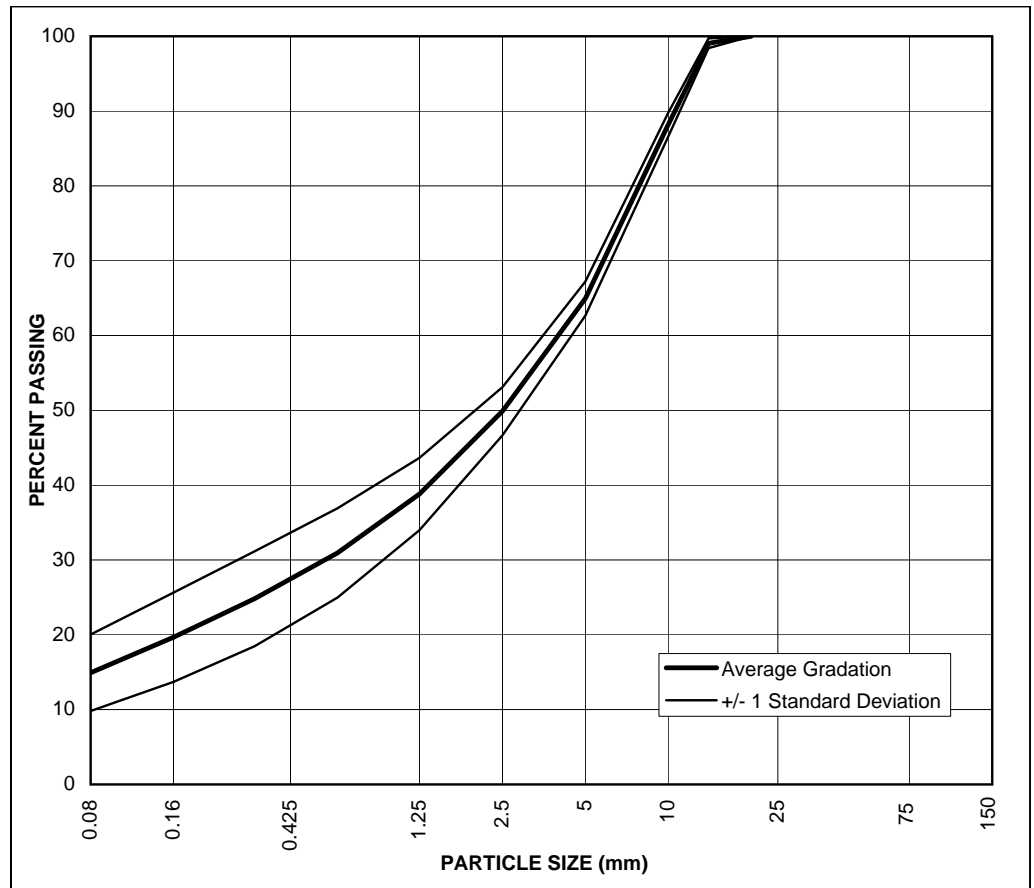
APPENDIX C GEOTECHNICAL QUALITY CONTROL TESTING

EBA Engineering Consultants Ltd.

PARTICLE SIZE ANALYSIS REPORT

PROJECT:	<u>C1 Diversion</u>	ANALYSIS DESCRIPTION:	
ADDRESS:	<u>Jericho Diamond Mine</u>	Average filter material gradation produced in	
PROJECT NO:	<u>1100060.007</u>	October and November of 2005	
DATE TESTED:	<u>-</u> By: <u>-</u>	Material used to backfill Reach A inlet cut-off	
CLIENT:	<u>Tahera Diamond</u>	trench	
	<u>Corporation</u>	AVG. MOISTURE CONT.:	<u>4.5%</u>
		BULK REL DENSITY:	<u>n/a</u>
ATTENTION:		BULK REL. DENSITY (SSD):	<u>n/a</u>
		APPARENT REL. DENSITY:	<u>n/a</u>
		ABSORPTION:	<u>n/a</u>

PARTICLE SIZE	PERCENT PASSING
20	100
14	99
10	88
5	65
2.5	50
1.25	39
0.63	31
0.16	20
0.08	15



Remarks: _____

Reviewed by: _____ P.Eng.

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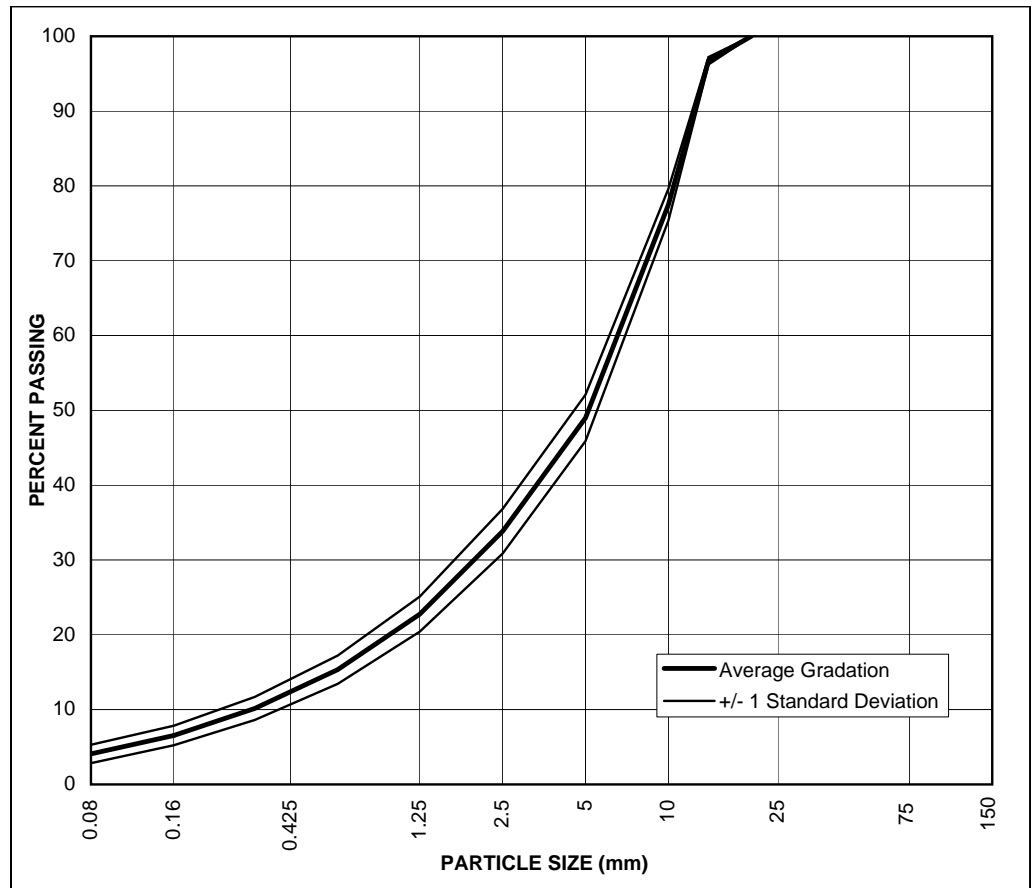


EBA Engineering Consultants Ltd.

PARTICLE SIZE ANALYSIS REPORT

PROJECT:	<u>C1 Diversion</u>	ANALYSIS DESCRIPTION:	
ADDRESS:	<u>Jericho Diamond Mine</u>	Average 20 mm crush gradation produced	
PROJECT NO:	<u>1100060.007</u>	in March 2006	
DATE TESTED:	<u>-</u> By: <u>-</u>	Material used as liner bedding and cover material	
CLIENT:	<u>Tahera Diamond Corporation</u>		
		AVG. MOISTURE CONT.:	<u>0.7%</u>
		BULK REL DENSITY:	<u>n/a</u>
ATTENTION:		BULK REL. DENSITY (SSD):	<u>n/a</u>
		APPARENT REL. DENSITY:	<u>n/a</u>
		ABSORPTION:	<u>n/a</u>

PARTICLE SIZE	PERCENT PASSING
20	100
14	97
10	77
5	49
2.5	34
1.25	23
0.63	15
0.16	7
0.08	4



Remarks: _____

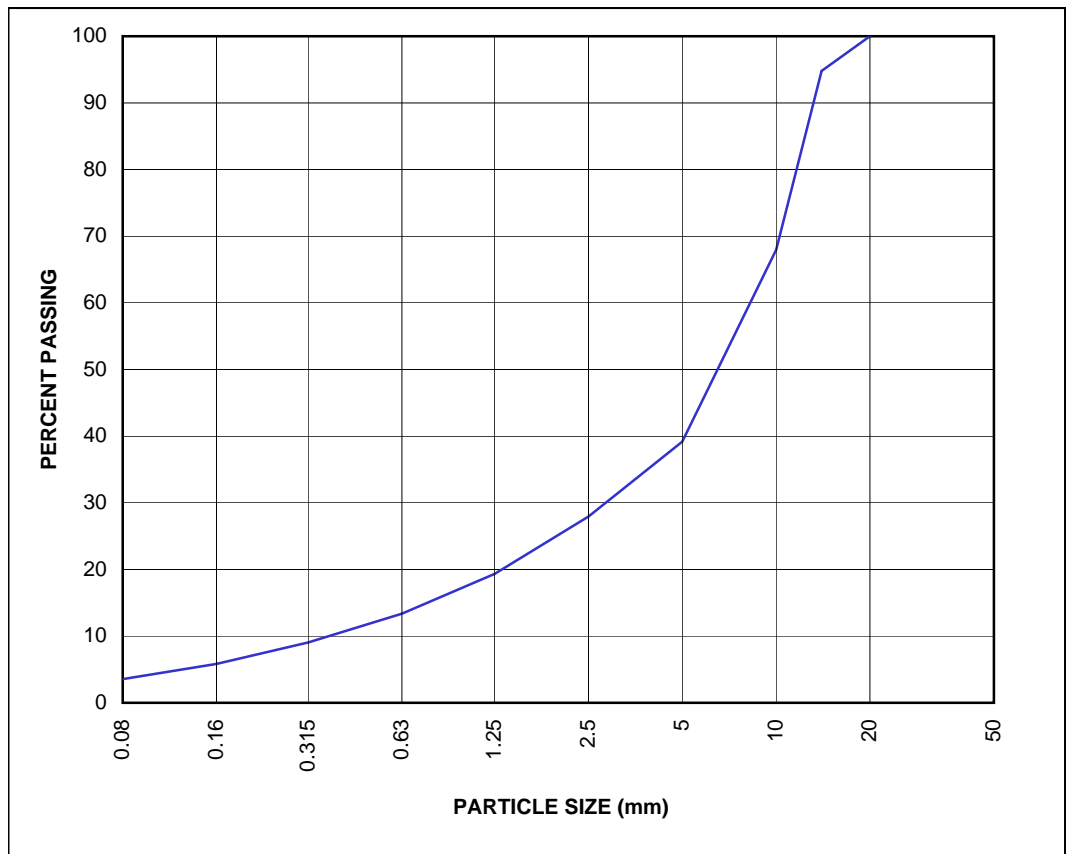
Reviewed by: _____ P.Eng.

EBA Engineering Consultants Ltd.

PARTICLE SIZE ANALYSIS REPORT

PROJECT:	PKCA Dams	SAMPLE NO:	Batchplant Stockpile
ADDRESS:	Jericho Diamond Project	SAMPLE DESCRIPTION:	
PROJECT NO:	0101-04-1100060.007	20 mm Stockpile	
DATE TESTED:	May 04/06	By: GDK	
CLIENT:	Tahera Diamond Corp.	NAT. MOISTURE CONT.:	2.6%
		COLOUR PLATE #:	n/a
		BULK REL DENSITY:	n/a
ATTENTION:	Roland Jones/Harold Gates	BULK REL. DENSITY (ssd):	n/a
		APPARENT REL. DENSITY:	n/a
		ABSORPTION:	n/a

PARTICLE SIZE	PERCENT PASSING
20	100
14	95
10	68
5	39
2.5	28
1.25	19
0.630	13
0.315	9
0.160	6
0.080	4



Remarks: Sampled from salvaged material near former batch plant

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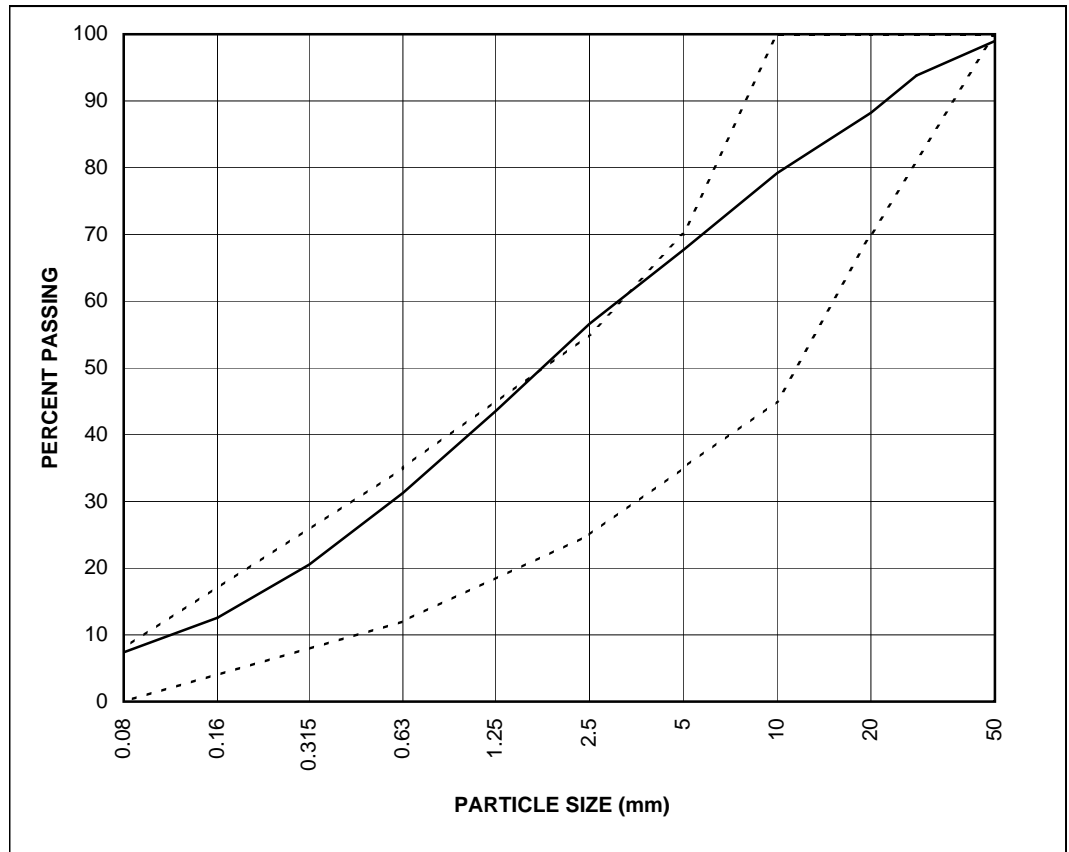


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PARTICLE SIZE ANALYSIS REPORT

PROJECT:	C1 Diversion	SAMPLE NO:	05-03
ADDRESS:	Jericho Diamond Project	SAMPLE DESCRIPTION:	
PROJECT NO:	0101-04-1100060.007	50 mm Crush	
DATE TESTED:	May 05/06	By: GDK	
CLIENT:	Tahera Diamond Corp.	NAT. MOISTURE CONT.:	3.0%
		COLOUR PLATE #:	n/a
		BULK REL DENSITY:	n/a
ATTENTION:	Roland Jones/Harold Gates	BULK REL. DENSITY (ssd):	n/a
		APPARENT REL. DENSITY:	n/a
		ABSORPTION:	n/a

PARTICLE SIZE	PERCENT PASSING
56	100
28	94
20	88
14	84
10	79
5	68
2.5	57
1.25	44
0.630	31
0.315	21
0.160	13
0.080	7



Remarks: Sampled from stockpile at crusher on May 5, 2006

Type 3 gradation limits shown

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Density Test Results

Project: **C1 Diversion Construction**

Address: **Jericho, NU**

Project Number: **0101-1100060.007**

Date Tested: 7-May-06

By: GDK

Client: **Tahera Diamond Corp.**

Attention: **Roland Jones/Harold Gates**

D.S...2492

M.S...726

Test Apparatus: Nuclear

Soil Description:

50 mm crush

Mach. No:

Temperature:

Air:+2

Specified Compaction:

95%

Compaction Standard:

Standard

Minimum Dry Density:

Maximum Dry Density:

2120

Optimum Moisture:

5.5

Test # / Probe Depth	01/250	02/250	03 / 250	04 / 300	05/250	06 / 250		
Location	6 m from S end	6 m from S end	12 m from S end	inlet	10 m from S end	10 m from S end		
Elevation	-1.8 m	-1.5 m	-1.5 m	-1.4 m	-1.0 m	-0.8 m		
Density Count								
Density - CR								
Wet Density - kg/m ³	2225	2099	2117	2136	2097	2136		
Moisture Count								
Moisture - CR								
Moisture - kg/m ³								
Moisture - %	2.7	2.7	2.2	2.3	1.9	2		
Dry Density - kg/m ³	2167	2044	2071	2088	2058	2094		
Compaction - %	100+%	96.4%	97.7%	98.5%	97.1%	98.8%		

Elevations referenced to OG

MOISTURE-DENSITY RELATIONSHIP

Project: Jericho Diamond Project

Address: Jericho Diamond Mine, NU

Project No.: 1100060.007

Date Tested: 5-May-06 By: GDK

Client: Tahera Diamond Corp.

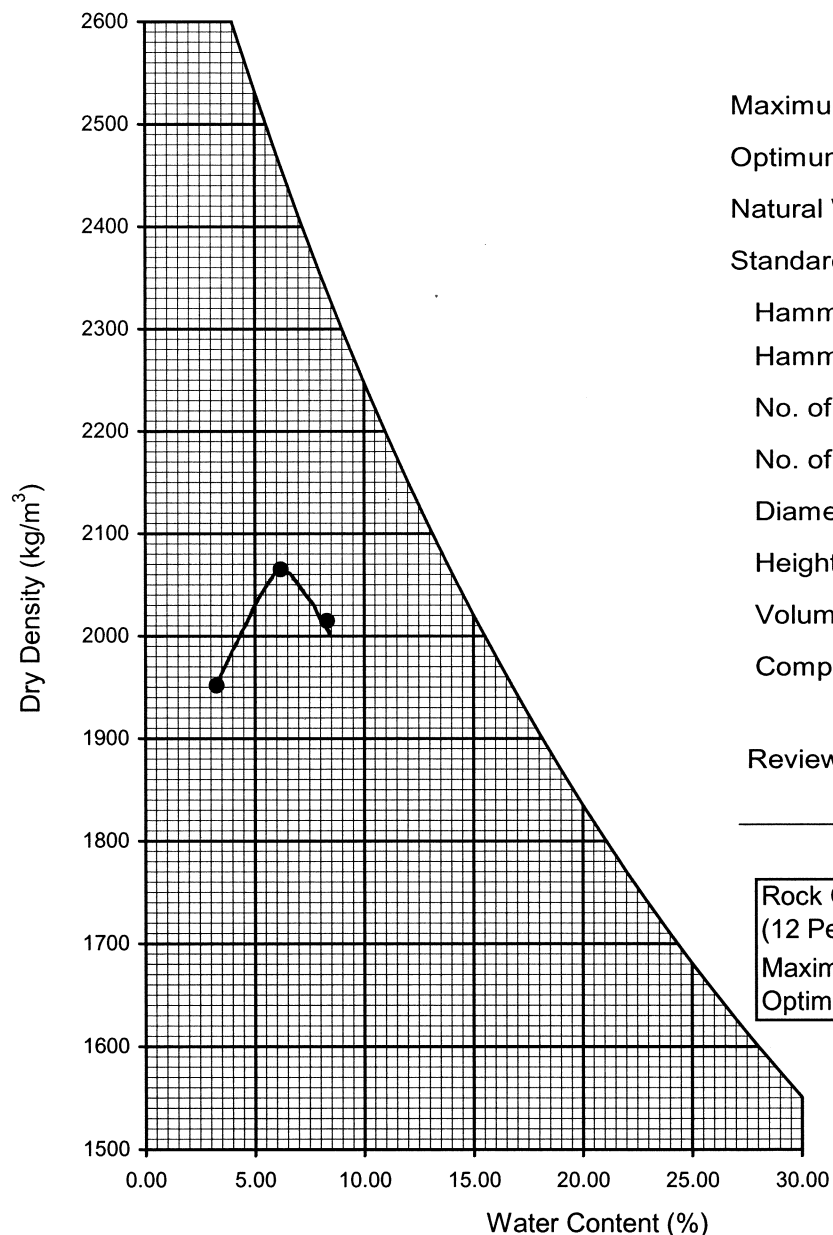
Attention: Mr. Roland Jones/Harold Gates

Sample No.: 05-03

Date Sampled: 5-May-06

Sample Location: _____

Sample Description: 50 mm Crush



Maximum Dry Density: 2065 kg/m³

Optimum Water Content: 6.2%

Natural Water Content: 4.9%

Standard Proctor (ASTM D 698) Part D

Hammer Weight: 2.5 kg

Hammer Drop: 305 mm

No. of Layers: 3

No. of Blows / Layer: 56

Diameter of Mould: 152 mm

Height of Mould: 116 mm

Volume Mould: 2124 cm³

Compactive Effort: 600 kJ/m³

Reviewed By:

_____ P. Eng.

EBA Engineering Consultants Ltd.

Density Test Results

Project: **C1 Diversion Construction**

Address: **Jericho, NU**

Project Number: **0101-1100060.007**

Date Tested: 8-May-06 By: GDK

Client: **Tahera Diamond Corp.**

Attention: **Roland Jones/Harold Gates**

D.S...-

M.S...-

Test Apparatus: Nuclear

Soil Description:

50 mm crush

Mach. No:

Temperature:

Air:+4

Specified Compaction:

95%

Compaction Standard:

Standard

Minimum Dry Density:

Maximum Dry Density:

2120

Optimum Moisture:

5.5

Test # / Probe Depth	07 / 300							
Location	near channel							
	mouth							
Elevation	-0.3 m							
Density Count								
Density - CR								
Wet Density - kg/m ³	2126							
Moisture Count								
Moisture - CR								
Moisture - kg/m ³								
Moisture - %	3.1							
Dry Density - kg/m ³	2062							
Compaction - %	97.3%							

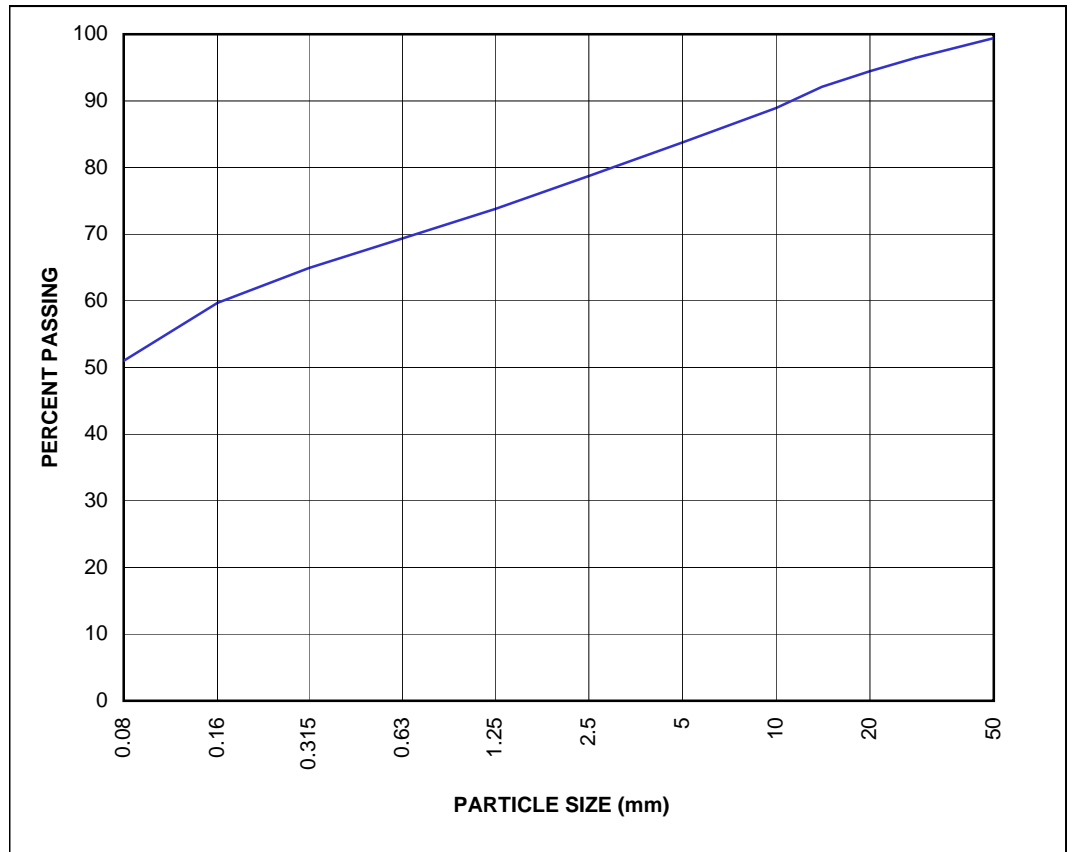
Elevations referenced to OG

EBA Engineering Consultants Ltd.

AGGREGATE ANALYSIS REPORT

PROJECT:	PKCA Dams	SAMPLE NO:	05-02
ADDRESS:	Jericho Diamond Project	SAMPLE DESCRIPTION:	
PROJECT NO:	0101-04-1100060.007	Till grab sample	
DATE TESTED:	May 05/06	By: GDK	
CLIENT:	Tahera Diamond Corp.	NAT. MOISTURE CONT.:	13.2%
		COLOUR PLATE #:	n/a
		BULK REL DENSITY:	n/a
ATTENTION:	Roland Jones/Harold Gates	BULK REL. DENSITY (ssd):	n/a
		APPARENT REL. DENSITY:	n/a
		ABSORPTION:	n/a

PARTICLE SIZE	PERCENT PASSING
56	100
28	96
20	94
14	92
10	89
5	84
2.5	79
1.25	74
0.630	69
0.315	65
0.160	60
0.080	51



Remarks: Sampled from till placed at Reach C north berm on May 4, 2006
Cobbles and boulders not sampled

Reviewed by: _____

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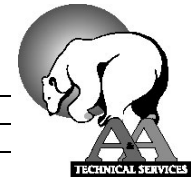
APPENDIX D

APPENDIX D LINER INSTALLATION SUMMARY

Air Pressure/Vac Box Testing

Date Installed: April 29/06
 Project Name: C-1 diversion
 Location: Tahera Jericho Project
 Job Number: _____
 Q/C Technician: Al Harman

Client: Tahera Corp
 Liner Type: HDPE single textured
 Sheet Thickness: 60 MIL



Date Tested	Seam Number	Pressure (psi)			Time of Test		Pass/Fail	Comments
		Start	End	Change	Start	End		
April 29/06	1	35	35	0	13:31	13:36	Pass	
April 29/06	2	35	35	0	14:32	14:37	Pass	
April 29/06	3	35	35	0	15:58	16:03	Pass	
April 29/06	4	35	35	0	17:01	17:06	Pass	
April 29/06	5	35	35	0	18:15	18:20	Pass	
April 29/06	6	35	35	0	18:32	18:37	Pass	
Vacum Test		Patch	VAC Test					

Wedge Welder Qualification

Date: April 28/06
Project Name: C-1 Diversion ditch
Location: Tahera Jericho project
Job Number: _____
Q/C Technician: Al Harman

Client: Tahera Corp.
Liner Type: HDPE single textured
Sheet Thickness: 60 MIL

Peel Test	Results (Test 1,Test 2) lbs/inch	ASTM Minimum lbs/inch
1)	134/131	78
2)	144/140	78
3)	138/138	78

Shear Test	Results lbs/inch	ASTM Minimum lbs/inch
1)	171	120
2)	166	120
3)	167	120

Welder Settings

Temperature: 356 Degrees F Speed: 4.5 ft/min



**A & A
TECHNICAL SERVICES**
327 OLD AIRPORT ROAD
YELLOWKNIFE, NT

EXTRUSION WELDER QUALIFICATION FIELD TEST DATA

PROJECT NAME:	C-1 Diversion Channel
LOCATION:	Tahera Jericho Mine
DATE:	April 29, 2006
Q/C TECHNICIAN	Al Harman

EXTRUSION WELDER No.	#1
PRE-HEAT TEMP.(° F)	280
EXTRUDITE TEMP.(° F)	252
SHEET TEMPERATURE (°C)	0
MATERIAL	60 Mil HDPE

DESTRUCTIVE TEST RESULTS

PEEL TESTS

TEST No.	lbs/in.	% Separation	Comments:
1	148	0	
2	135	0	
3	142	0	
4	127	0	
5	134	0	

SHEAR TESTS

TEST No.	lbs/in.	Comments:
1	190	Necked outside of weld
2	181	" "
3	187	" "
4	191	" "
5	199	" "



Q/C TECHNICIAN

signature

NOTE: ASTM Minimum weld strength for 60 mil HDPE
Peel 78 lbs/in
Shear 120 lbs/in

40mil HDPE
52 lbs./inch
80 lbs/inch