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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010 
 BOREHOLE No
 BH C33

 SHEET
 \_ 1 \_ of \_ 3 \_

 REFERENCE No
 \_ H11123 \_

PRO	JECT	Bruce Highway Upgrade (Cooroy to Curra) Section C										
		Cut 9	2			COORDINATES 471732.2 E; 7094413.1 N						
PROJECT No		<u>FG5799</u>			SURFACE R.L. <u>85.10m</u> PLUNGE <u>-90°</u>		DATE STARTED _18/7/11 G			11 GRID DATUM MGA94		
JOB No		232/10A/2			HEIGHT DATUMAHD BEARING		DATE COM	IPLETED _	<u> 19/7/</u>	DRILLER _Drillsure Pty I	<u>td</u>	
O DEPTH (m)	R.L. (m) 85.10	CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL  DESCRIPTION  TOPSOIL: Brown, organic.	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES	
	84.10				Silty CLAY (Residual): Brown, fine grained, moist, intermediate to high plasticity.	(CI- CH)				— Becoming gravelly  30/100	-	
- - -	83.55			Α	SILTSTONE (XW): Generally exhibits engineering properties of a brown, moist, hard, medium to high plasticity silty clay.	xw		- - - -		N>50	SPT -	
-2			(10)		SILTSTONE (MW): Brown/grey, fine grained, subtly foliated, generally medium strength, indurated and/or slightly metamorphosed.					Is(50) = 0.37MPa Is(50) = 0.84MPa	x -	
Ė.			100		Defects: -Broken and clayey zones throughout.						-	
3	11.1		(13)		-Joint at 5°-10° (10/m) -Joint at 20° (4-5/m) -Joint at 35° (4/m) -Joint at 60° (1/m) -Joint at 75° (2/m)  Defects are generally medium spaced.					─ J, 75°, Pl, T, Clnf ──XW Clay Seam	-	
-4			100		Defect surfaces are generally planar, tight or						-	
5 - T			(39)		open, smooth, clay infilled.					-BZ Is(50) = 0.55MPa	X	
5			100 (55)			MW				Is(50) = 0.48MPa  Is(50) = 0.47MPa  Is(50) = 0.47MPa  Is(50) = 0.25MPa; *  DD = 2.46t/m³; WD = 2.54t/m³;	0 2	
6			100							MC = 3.2%; UCS=18.4MPa		
3								-			] -	
		-	(0)	$\times$								
8			(0)				-	-		- CLY BZ		
	76.82			$\geq$		_						
9			88 (16) 100 (34)		SANDSTONE (MW): Brown, fine to coarse grained, massive, low to medium strength, indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (2/m) -Joint at 45° (1-2/m) -Joint at 60°-70° (~5/m) -Joint at 80°-85° (2/m) Defects are generally medium spaced. Defect surfaces are generally planar or irregular, tight, clay infilled.	MW				J, 80°-85°, PI, T, Cinf  —XW Clay Seam  J, 70°-75°, PI, T, Cinf Is(50) = 0.53MPa  Is(50) = 0.24MPa	-	
10	DEMA DV	*Pair	ı ıt load fail	led a	long existing defect.	AC 22		11		LOGGED BY		
r	REMARKS *Point load failed along existing defect.  LOGGED BY  JA/DC									-		



# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

 BOREHOLE No
 BH C33

 SHEET
 2 of 3

 REFERENCE No
 H11123

					. <b>–</b> –				OORDINATES 471732.2 E; 7094413	
				SURFACE R.L. <u>85.10m</u> PLUNGE <u>-90</u> HEIGHT DATUM <u>AHD</u> BEARING						
R.L. (m)	VGEK VSING ASH BORING ORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	SC	INTACT STRENGTH	(mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES
10 75.10	111	REC %	ŝ	SANDSTONE (MW): Cont'd		1	700000	<u>R</u>	Is(50) = 1.37MPa	
74.80		100		SILTSTONE (MW): Grey, fine grained, subtly foliated, mainly	MW					-
11		100		medium strength. Indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (3/m) -Joint at 40°-45° (2-3/m) -Joint at 60°-70° (2/m)					le(50) = 0.75MPa	
12		(76)		Defects are generally close to medium spaced Defect surfaces are planar or irregular, tight or open, smooth, clay infilled.					Is(50) = 0.75MPa DD = 2.33t/m³; MC = 3.2%; UCS=5.57MPa	LIC
13		100			MW					
14		100								
69.66		(28)							□ – J, 80°-85°, I, T, Cinf □ – HW Clayey Zone Is(50) = 1.15MPa	×
69.66		100		0.1.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.					Is(50) = 1.30MPa	0.
6		(41)		SANDSTONE (MW): Grey/brown, fine to medium grained, massive, high strength, indurated and/or slightly metamorphosed.  Defects: -Joint at 15°-20° (5/m)					J. 80°-85°, PI, O, S, Clnf, Broken	
7		100		-Joint at 30° (3/m) -Joint at 45°-50° (2/m) -Joint at 80°-85° (1-2/m)					Is(50) = 1.79MPa Is(50) = 2.03MPa	×
8				Defect spacing is close to medium. Defect surfaces are generally planar or irregular, tight or open, slightly rough, clay infilled.  Includes occasional conglomerate bands throughout. Pebble fraction is subrounded with particles sizing up to 25mm.	MW				– CLy BZ	
9		(41)								
									Is(50) ≃ 1.04MPa - J, 80°-85°, T, Cinf	x o



# ENGINEERING BOREHOLE LOG

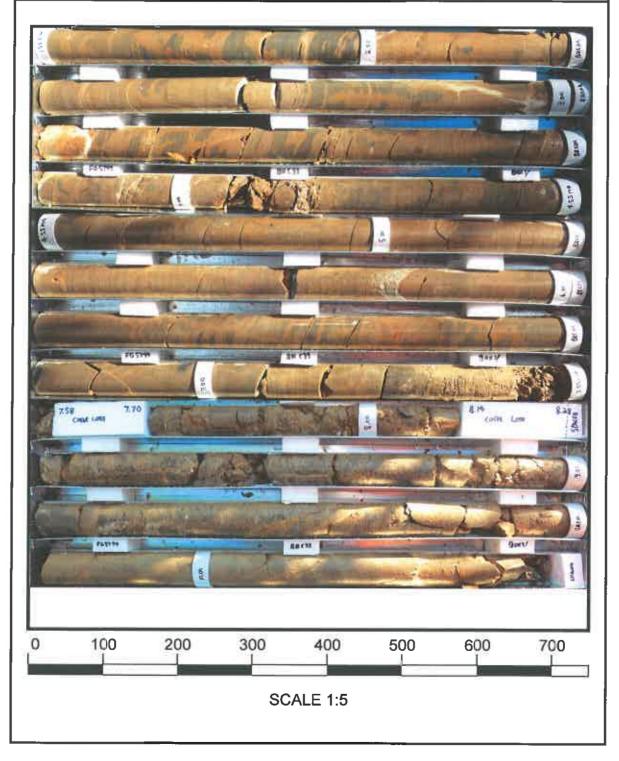
FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010 

		HEIGHT DATUM AHD BEARING									
R.L. (m)	AUGER CASING CASING WASH BORING CORE DRILLING CORE DRILLING SAMPI F	MATERIAL DESCRIPTION	INTACT DEFECT STRENGTH SPACING (mm) 1000 SWELL WITH SPACING (Mm) 1000 SWELL WITH SPACING SWELL WITH SWELL WITH SPACING SWELL WITH SPACING SWELL WITH S	ADDITIONAL DATA  AND TEST RESULTS  SAMPLES  SAMPLES  TESTS  TESTS							
20 65.10	100	SANDSTONE (MW): Cont'd		Is(50) = 2.43MPa o							
-21	100 (29)			BZ							
		SANDSTONE (SW): Grey/brown, fine to medium grained, massive, high to very high strength, indurated and/or slightly metamorphosed.  Defects: As above.	sw								
-23		Delects. As above.									
61.65	100			Is(50) = 4.55MPa x 1s(50) = 8.07MPa o							
-24 25 26 27 28 29		Borehole terminated at 23.45m									
30	a *Daint land failed	along existing defect	<u> </u>	LOGGED BY							
KEMARK:	REMARKS *Point load failed along existing defect.  LOGGED BY  JA/DC										



## CORE PHOTO LOG BH C33

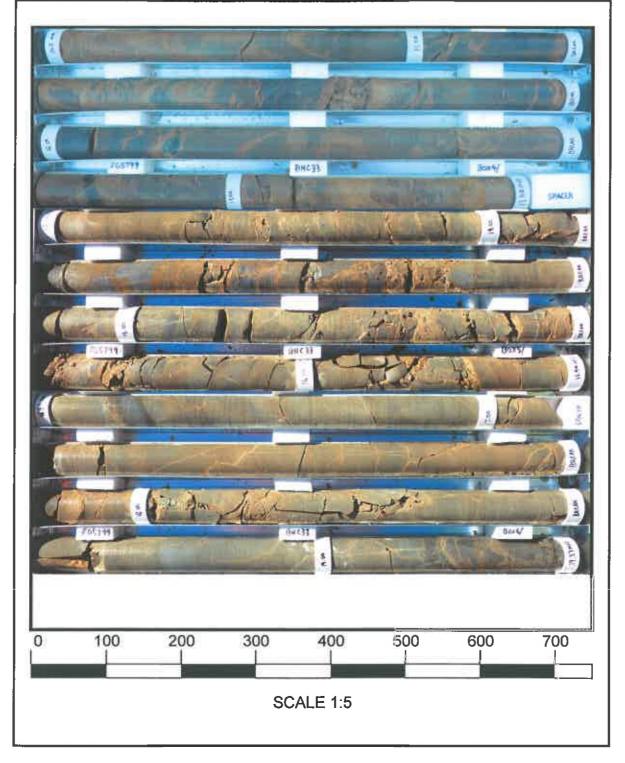
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C					
Project No.:	FG5799	Date:	08/09/2011			
Details:	Cut 9	Start Depth (m):	1.55			
Reference No.:	H11123	Finish Depth (m):	23.45			





#### **CORE PHOTO LOG - BH C33**

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C				
Project No.:	FG5799	Date:	08/09/2011		
Details:	Cut 9	Start Depth (m):	1.55		
Reference No.:	H11123	Finish Depth (m):	23.45		



DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3115 3035 Fax 07 3115 3011



#### **CORE PHOTO LOG - BH C33**

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C				
Project No.:	FG5799	Date:	08/09/2011		
Details:	Cut 9	Start Depth (m):	1.55		
Reference No.:	H11123	Finish Depth (m):	23.45		



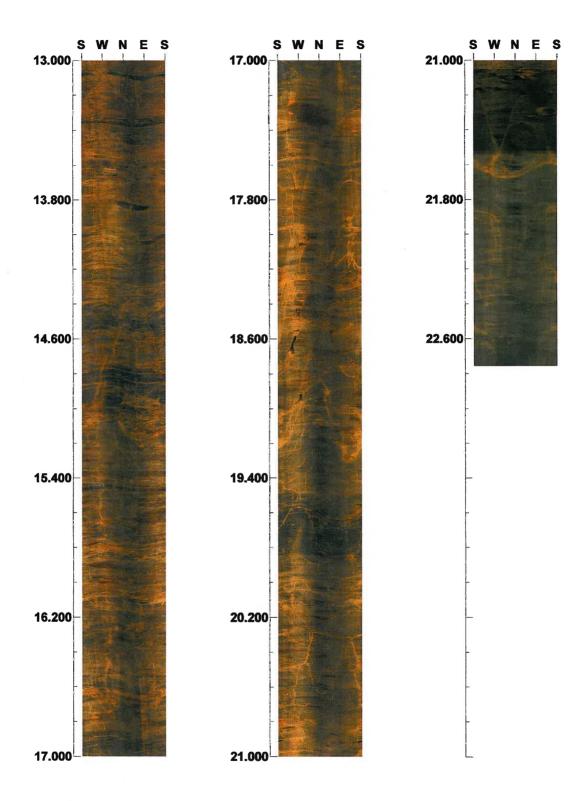
Bore hole No.: C-33 Azimuth: 0 Inclination: -90

Depth range: 1.000 - 13.000 m



Bore hole No.: C-33 Azimuth: 0 Inclination: -90

Depth range: 13.000 - 22.754 m

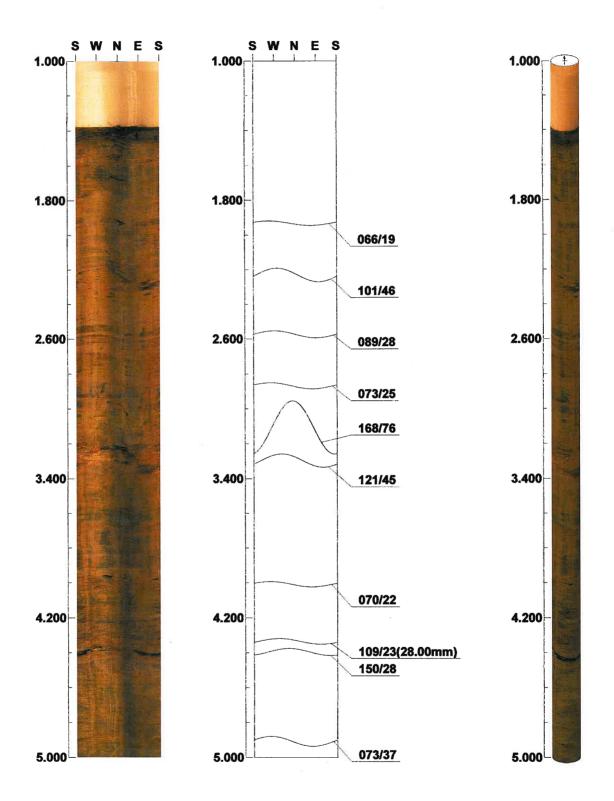


Bore hole No.: C-33

Azimuth: 0

Inclination: -90

Depth range: 1.000 - 5.000 m

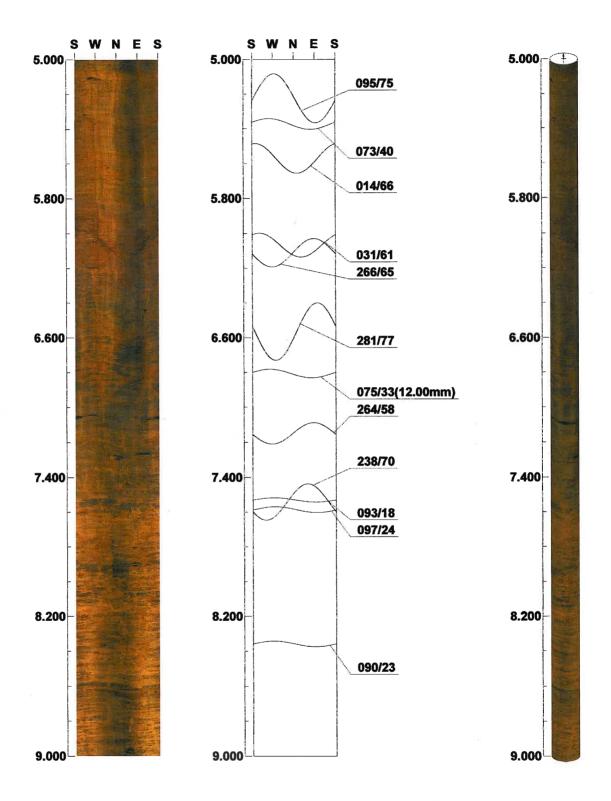


Scale: 1/20

Aspect ratio: 200 %

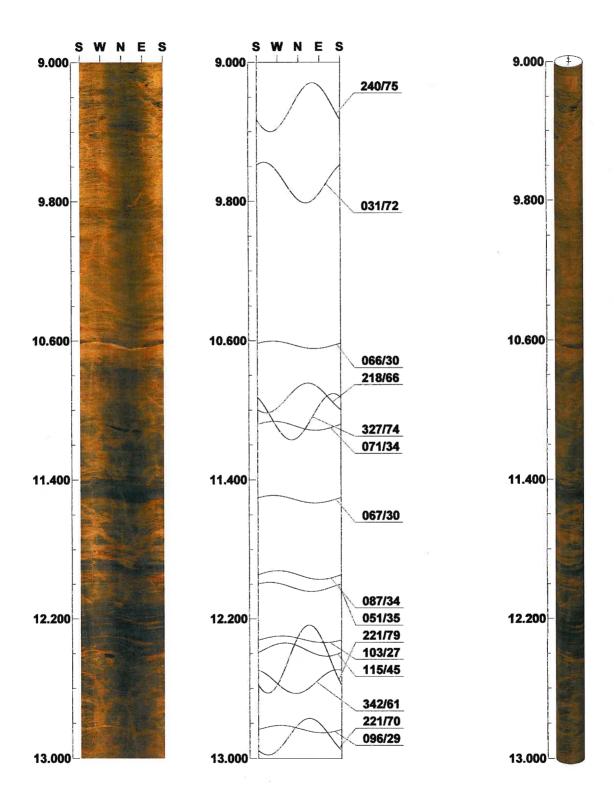
Bore hole No.: C-33 Azimuth: 0 Inclination: -90

Depth range: 5.000 - 9.000 m



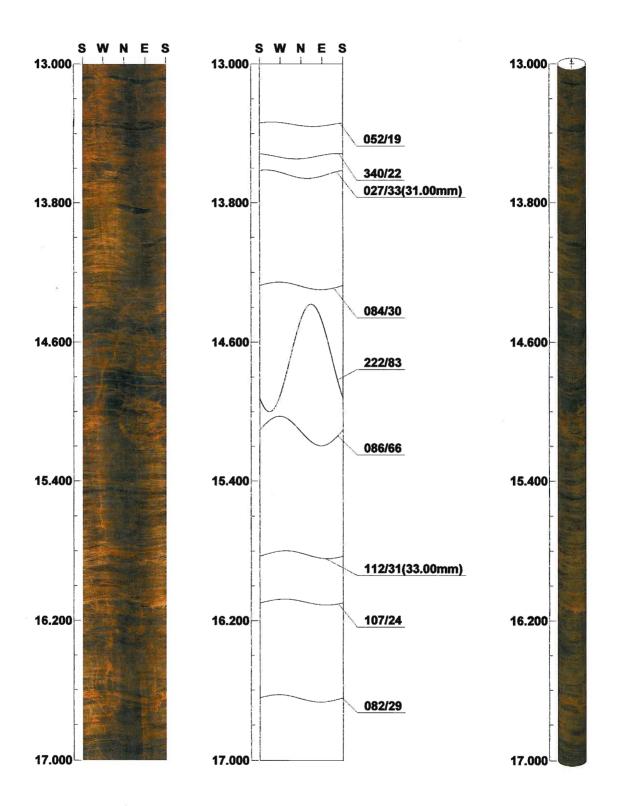
Bore hole No.: C-33 Azimuth: 0 Inclination: -90

Depth range: 9.000 - 13.000 m



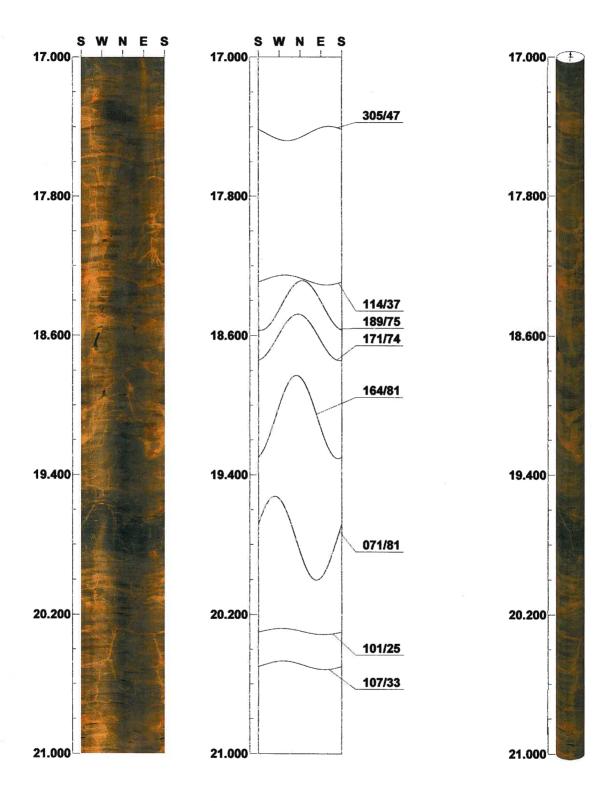
Bore hole No.: C-33 Azimuth: 0 Inclination: -90

Depth range: 13.000 - 17.000 m



Bore hole No.: C-33 Azimuth: 0 Inclination: -90

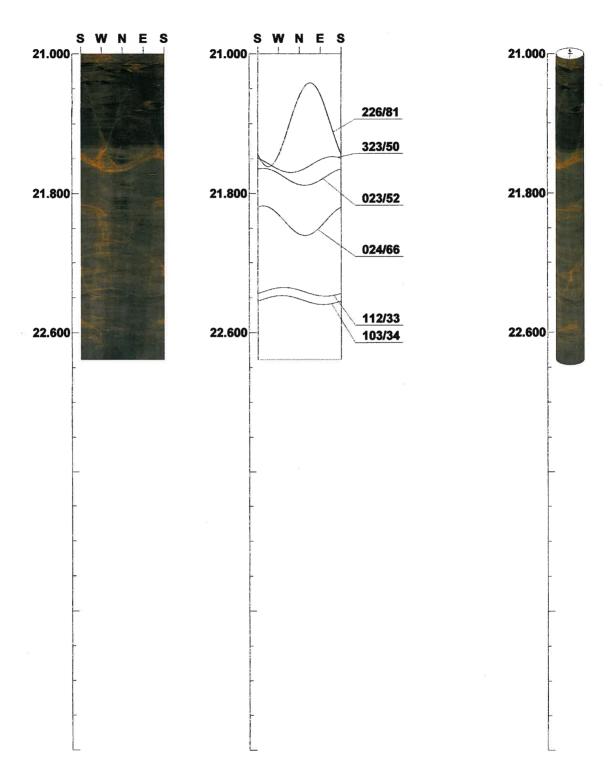
Depth range: 17.000 - 21.000 m



Bore hole No.: C-33 Azimuth: 0

Depth range: 21.000 - 22.754 m

Inclination: -90



File name: C-33.STR

[]

No.	Depth (m)	Dir/Dip	Sort	Aperture (mm)	Form	Condition	Rem
1	1.932	066/19	Foliation	0.0	Planar	Smooth	Tight
2	2.230	101/46	Parting	0.3	Planar	Smooth	Open
3	2.573	089/28	Foliation	0.0	Planar	Smooth	Tight
4	2.867	073/25	Parting	0.3	Planar	Smooth	Open
5	3.106	168/76	Joint	0.3	Planar	Rough	Tight
6	3.296	121/45	ShearZone	28.0	Planar	Brec/crus'd	Open/loose
7	4.008	070/22	ShearZone	45.0	<b>Planar</b>	Brec/crus'd	Open/loose
8	4.334	109/23	ShearZone	28,0	Planar	Brec/crus'd	Open
9	4.395	150/28	Vein	17.0	Planar	Brec/crus'd	Open/loose
10	4.907	073/37	Parting	0.3	Planar	Sheared	Open
11	5.225	095/75	Joint	0.3	Undulating	Rough	Open
12	5.373	073/40	Parting	0.3	Planar	Smooth	Open
13	5.571	014/66	Joint	0.3	Planar	Smooth	Tight
14	6.067	031/61	ShearZone	9.0	Planar	Brec/crus'd	Open/fil'd
15	6.111	266/65	Joint	0.3	Planar	Rough	Tight
16	6.565	281/77	Joint	0.3	Planar	Rough	Tight
17	6.806	075/33	ShearZone	12.0	Planar	Brec/crus'd	Open
18	7.148	264/58	Joint	0.3	Planar	Smooth	Tight
19	7.529	093/18	Foliation	0.0	Planar	Smooth	Tight
20	7.541	238/70	Joint	0.3	Planar	Smooth	Tight
21	7.585	097/24	Parting	0.5	Planar	Smooth	Open
22	8.358	090/23	Parting	0.3	Planar	Smooth	Open
23	9.259	249/75	Joint	0.3	Planar	Rough	Open
24	9.693	031/72	Joint	2.0	Planar	Rough	Open
25	10.624	066/30	Parting	3.0	Planar	Smooth	Open/fil'd
26	10.930	218/66	Joint	0.3	Planar	Rough	Tight
27	11.038	327/74	Joint	0.5	Planar	Rough	Tight
28	11.090	071/34	ShearZone	7.0	Planar	Brec/crus'd	Open
29	11.511	067/30	Foliation	0.0	Planar	Smooth	Tight
30	11.946	087/34	Parting	0.3	Planar	Smooth	Open
31	12.015	051/35	Parting	0.3	Planar	Smooth	Open
32	12.015	103 <i>/2</i> 7	Parting	0.3	Planar	Smooth	Open
33	12.376	115/45	Parting	0.3	Planar	Smooth	Open
34	12.431	221/79	Joint	0.3	Planar		•
35	12.451	342/61		0.3	Planar	Rough Smooth	Tight
36			Joint	0.5 0.5	Planar	Smooth	Open Open
30 37	12.833 12.876	096/29 221/70	Parting Joint	0.3	Planar	Smooth	Tight
38		052/19	ShearZone	32.0	Planar	Brec/crus'd	Open/loos
39	13.347 13.532	340/22	Snearzone Joint	32.0 0.5	Planar Planar	Smooth	
39 40					Planar Planar		Open
	13.635	027/33	ShearZone Basting	31.0		Brecicrus'd	Open
41 42	14.276 14.690	084/30 222/83	Parting Joint	0.3 0.3	Planar Planar	Smooth	Tight
						Rough	Tight
43 44	15.111	086/66	Joint ShearZone	0.3	Planar	Rough	Open
	15.820	112/31		33.0	Planar	Brec/crus'd	Open
45	16.092	107/24	ShearZone	12.0	Planar	Brec/crus'd	Open
46	16.647	082/29	Parting	2.0	Planar	Smooth	Open
47	17.438	305/47	Joint	0.3	Planar	Smooth	Tight
48	18.282	114/37	Parting	2.0	Planar	Smooth	Open
49	18.428	189/75	Joint	0.3	Planar	Rough	Tight
50	18.610	171/74	Joint	0.3	Planar	Rough	Tight

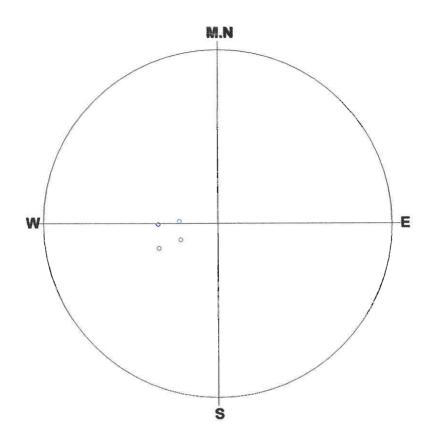
Tab. Table of Discontinuity (2/2)

File name: C-33.STR

1

No.	Depth (m)	Dir/Dip	Sort	Aperture (mm)	Form	Condition	Remark
51	19.067	164/81	Joint	0.3	Planar	Rough	Tight
52	19.762	071/81	Joint	0.3	Planar	Rough	Tight
53	20.297	101/25	ShearZone	14.0	Planar	Brec/crus'd	Open
54	20.492	107/33	Parting	0.3	Planar	Smooth	Open
55	21.407	226/81	Joint	0.3	Planar	Rough	Tight
56	21.635	323/50	Joint	5.0	Planar	Smooth	Open
57	21.705	023/52	Joint	0.5	Planar	Smooth	Open
58	21.957	024/66	Joint	0.5	Planar	Rough	Tight
59	22.367	112/33	Parting	0.5	Planar	Smooth	Open
60	22.414	103/34	Parting	0.3	Planar	Smooth	Open

# C-33.STR <<FOLIATION>>



Number of Data: 4/60

# <Legend>

:Foliation - 4

+:Mineralban- 0

:Parting -- 0

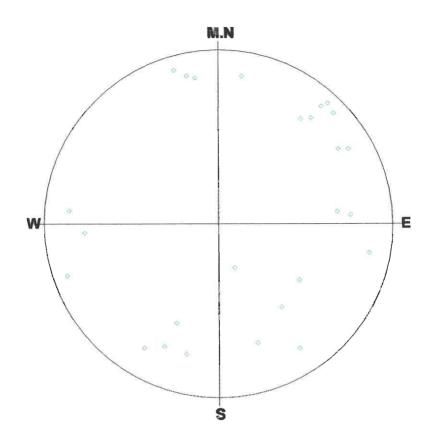
\_\_\_:Fault -- 0

**▽:ShearZone- 0** 

 $\times$ :Vein -- 0

#### Schmidt (L.H)

# C-33.STR <<JOINT>>



Number of Data: 26/60

# <Legend>

○:Foliation - 0 +:Mineralban- 0

:Joint -- 26

:Parting -- 0

∴:Fault -- 0

**▽:ShearZone-** 0

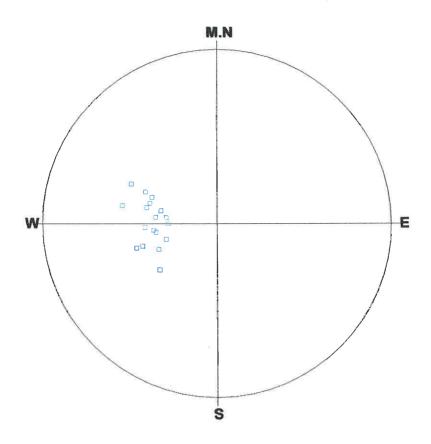
 $\times$ :Vein -- 0

# Schmidt (L.H)

Depth: 1.932 - 22.414 m

Aperture: 0.0 - 45.0 mm

# C-33.STR <<PARTING>>



Number of Data: 18/60

#### <Legend>

:Foliation -- 0 +:Mineralban- 0

:Joint -- 0

Parting -- 18

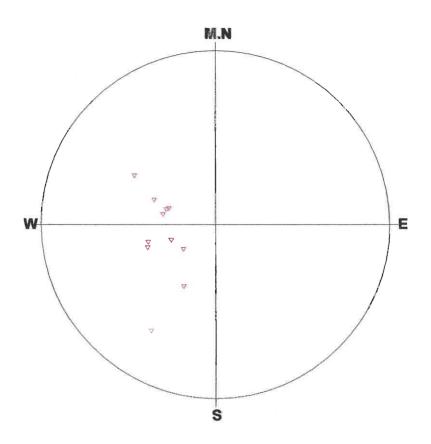
 $\triangle$ :Fault - 0

**▽:ShearZone- 0** 

imes:Vein -- 0

## Schmidt (L.H)

# C-33.STR <<SHEAR ZONE>>



Number of Data: 11/60

## <Legend>

:Foliation - 0 +:Mineralban- 0

:Joint -- 0

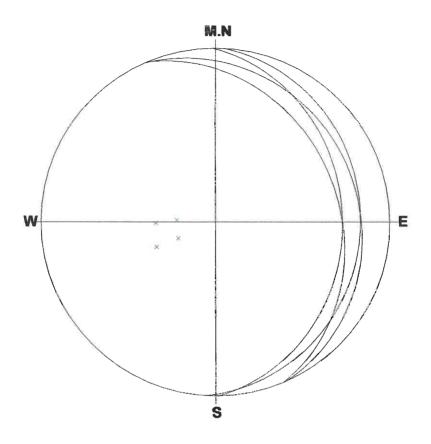
:Parting -- 0

∴:Fault -- 0
∵:ShearZone- 11

×:Vein -- 0

## Schmidt (L.H)

# C-33.STR <<FOLIATION>>



#### Number of Data:4/60

1:066/19(1)

2:089/28(3)

3:093/18(19)

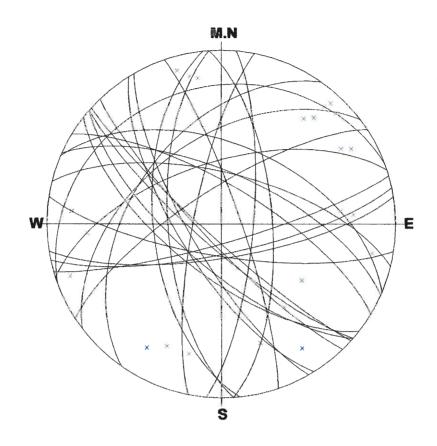
4:067/30(29)

# Schmidt (L.H)

Depth: 1.932 - 22.414 m

Aperture: 0.0 - 45.0 mm

# C-33.STR <<JOINT>>

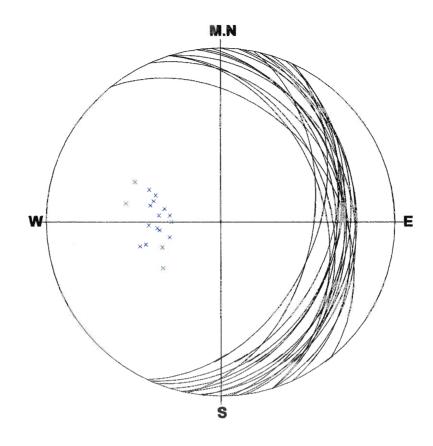


#### Number of Data:26/60

1:168/76(5) 6:264/58(18) 2:095/75(11) 7:238/70(20) 3:014/66(13) 8:240/75(23) 4:266/65(15) 9:031/72(24) 5:281/77(16) 10:218/66(26)

## Schmidt (L.H) M

# C-33.STR <<PARTING>>

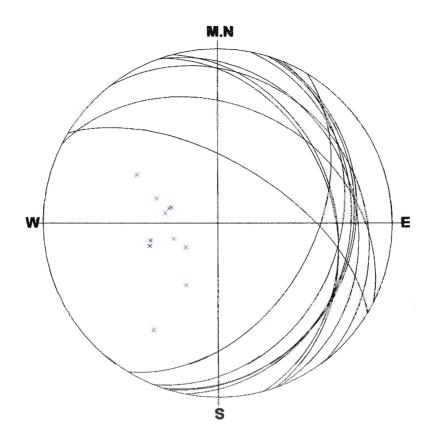


#### Number of Data:18/60

1:101/46(2) 6:090/23(22)
2:073/25(4) 7:066/30(25)
3:073/37(10) 8:087/34(30)
4:073/40(12) 9:051/35(31)
5:097/24(21) 10:103/27(32)

## Schmidt (L.H)

# C-33.STR <<SHEAR ZONE>>



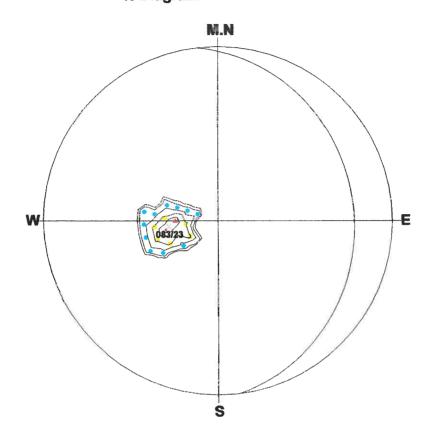
#### Number of Data:11/60

1:121/45(6) 6:071/34(28)
2:070/22(7) 7:052/19(38)
3:109/23(8) 8:027/33(40)
4:031/61(14) 9:112/31(44)
5:075/33(17) 10:107/24(45)

## Schmidt (L.H)

C-33.STR <<FOLIATION>>

\*\*\*\*\* % Diagram \*\*\*\*\*\*



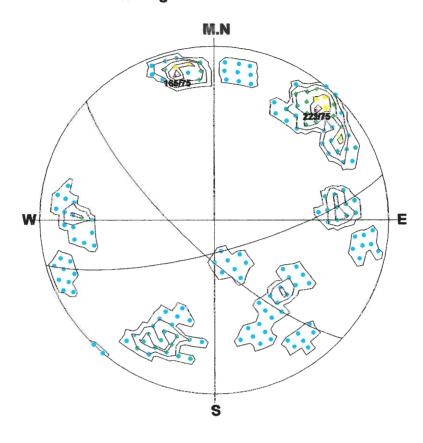
#### Number of Data: 4

<legend> Sym. (%)</legend>	Contour Value (%)					
<b>_: 75</b>	Contour 1: 0					
<b>V</b> : 60 - 75	Contour 2: 15					
V. 60 - 75	Contour 3: 30					
: 45 - 60	Contour 4: 45					
A. 20 45	Contour 5: 60					
<b>•</b> : 30 - 45	Contour 6: 75					
<b>)</b> : 15 - 30						
+: 0 - 15						

# Schmidt (L.H)

# C-33.STR <<JOINT>>

\*\*\*\*\* % Diagram \*\*\*\*\*\*



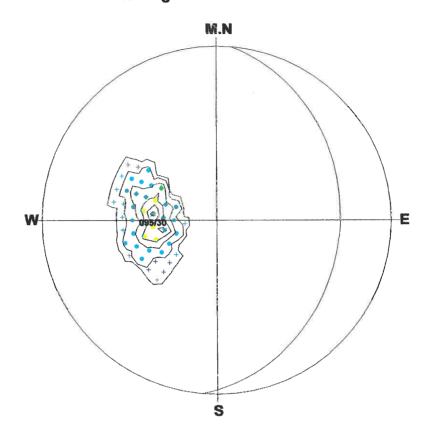
#### Number of Data: 26

<legend> Sym. (%)</legend>	Contour Value (%)
<b>▲</b> : 15	Contour 1: 0
<b>V</b> : 12 - 15	Contour 2: 3
V: 12 - 15	Contour 3: 6
: 9 - 12	Contour 4: 9
<b>A</b> . 6. 0	Contour 5 : 12
<b>•</b> : 6 - 9	Contour 6: 15
<b>:</b> 3 - 6	
+: 0 - 3	

# Schmidt (L.H)

C-33.STR <<PARTING>>

\*\*\*\*\* % Diagram \*\*\*\*\*\*



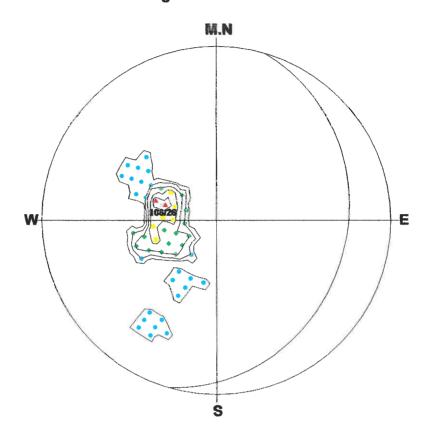
Number of Data: 18

<legend> Sym. (%)</legend>	Contour Value (%)					
<b>▲:</b> 55	Contour 1: 0					
	Contour 2: 11					
<b>V</b> : 44 - 55	Contour 3: 22					
: 33 - 44	Contour 4: 33					
<b>A</b>	Contour 5: 44					
<b>•</b> : 22 - 33	Contour 6: 55					
<b>)</b> : 11 - 22						
+: 0 - 11						

# Schmidt (L.H)

# C-33.STR <<SHEAR ZONE>>

\*\*\*\*\* % Diagram \*\*\*\*\*\*

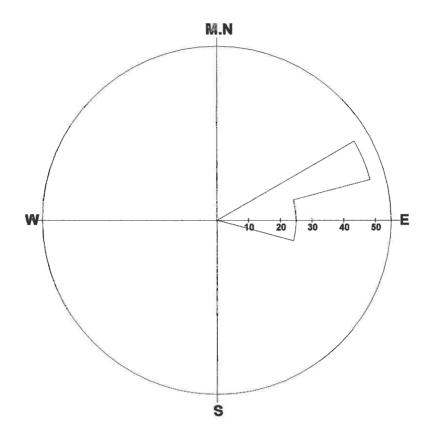


#### Number of Data: 11

# <Legend> Sym. (%) ∴ 36 ∵ 29 - 36 ∴ 21 - 29 ∴ 14 - 21 ∴ 7 - 14 ∴ 7 - 14 ∴ 0 - 7 Contour Value (%) Contour 1 : 0 Contour 2 : 7 Contour 3 : 14 Contour 4 : 21 Contour 5 : 29 Contour 6 : 36

## Schmidt (L.H)

C-33.STR <<FOLIATION>>



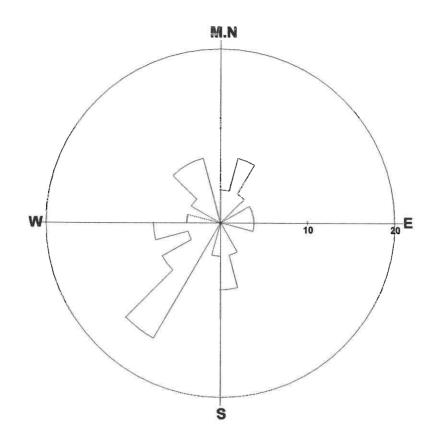
Number of Data: 4/60

Max: 50.0%

**Grouping Angle: 15 deg** 

Dir	%	Dir	%	Dir	%
0-	0	135-	0	270-	0
15-	0	150-	0	285-	0
30-	0	165-	0	300-	0
45-	0	180-	0	315-	0
60-	50	195-	0	330-	0
75-	25	210-	0	345-	0
90-	25	225-	0	And Andreas	
105-	0	240-	0		
120-	0	255-	0		

# C-33.STR <<JOINT>>



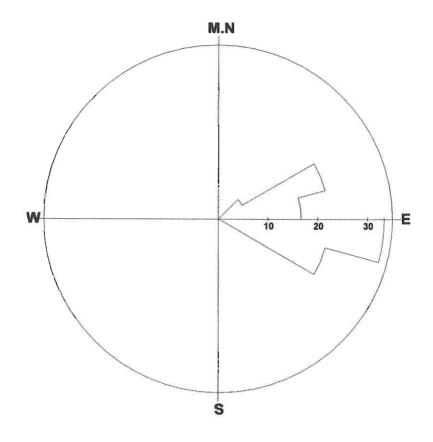
Number of Data: 26/60

Max: 15.4%

**Grouping Angle: 15 deg** 

Dir	%	Dir	%	Dir	%
0-	4	135-	0	270-	4
15-	8	150-	4	285-	0
30-	4	165-	8	300-	4
45-	0	180-	4	315-	8
60-	4	195-	0	330-	8
75-	4	210-	15	345-	0
90-	4	225-	8		
105-	0	240-	4	William Jan - Gill (Managar	
120-	0	255-	8	San	

C-33.STR <<PARTING>>



Number of Data: 18/60

Max: 33.3%

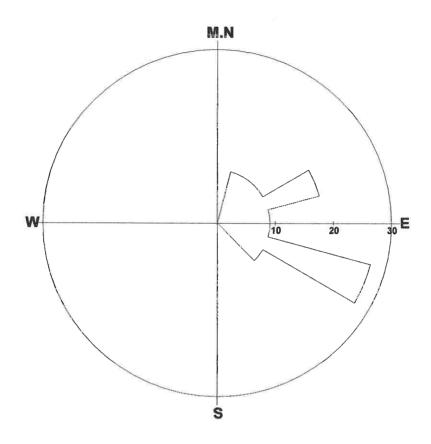
**Grouping Angle: 15 deg** 

Dir	%	Dir	%	Dir	%
0-	0	135-	0	270-	0
15-	0	150-	0	285-	0
30-	0	165-	0	300-	0
45-	6	180-	0	315-	0
60-	22	195-	0	330-	0
75-	17	210-	0	345-	0
90-	33	225-	0		
105-	22	240-	0	and the second s	
120-	0	255-	0		

Depth: 1.932 - 22.414 m

Aperture : 0.0 - 45.0 mm

C-33.STR <<SHEAR ZONE>>



Number of Data: 11/60

Max: 27.3%

**Grouping Angle: 15 deg** 

Dir	%	Dir	%	Dir	%
0-	0	135-	0	270-	0
15-	9	150-	0	285-	0
30-	9	165-	0	300-	0
45-	9	180-	0	315-	0
60-	18	195-	0	330-	0
75-	9	210-	0	345-	0
90-	9	225-	0		
105-	27	240-	0		
120-	9	255-	0		

Title: C-33.STR Comment: JOINT Depth: 1.932 - 22.414 m Aperture: 0.0 - 45.0 mm

Sort: 1/7
Form: 5/5
Condition: 11/11
Remark: 9/9

2011/ 8/ 31

Elevation: 0.000m Water Level: 21.050m

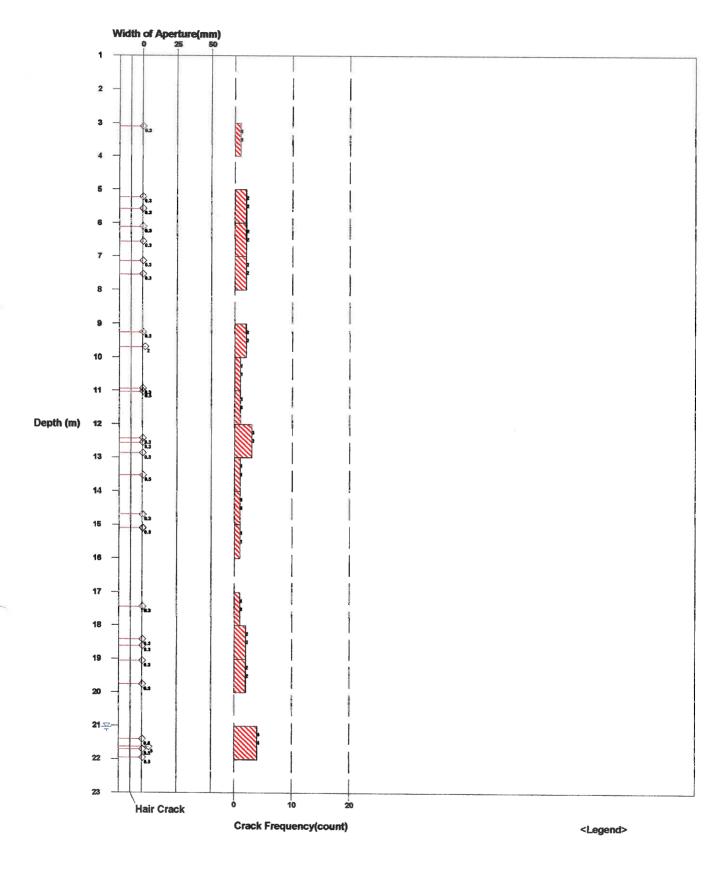


Fig. Rock Mass Condition Graph

All Crack Frequency
Open Crack Frequency

**₩** Water Level

Title: C-33.STR Comment: PARTING Depth: 1.932 - 22.414 m Aperture: 0.0 - 45.0 mm Sort: 1/7
Form: 5/5
Condition: 11/11
Remark: 9/9

2011/ 8/ 31

Elevation: 0.000m Water Level: 21.050m

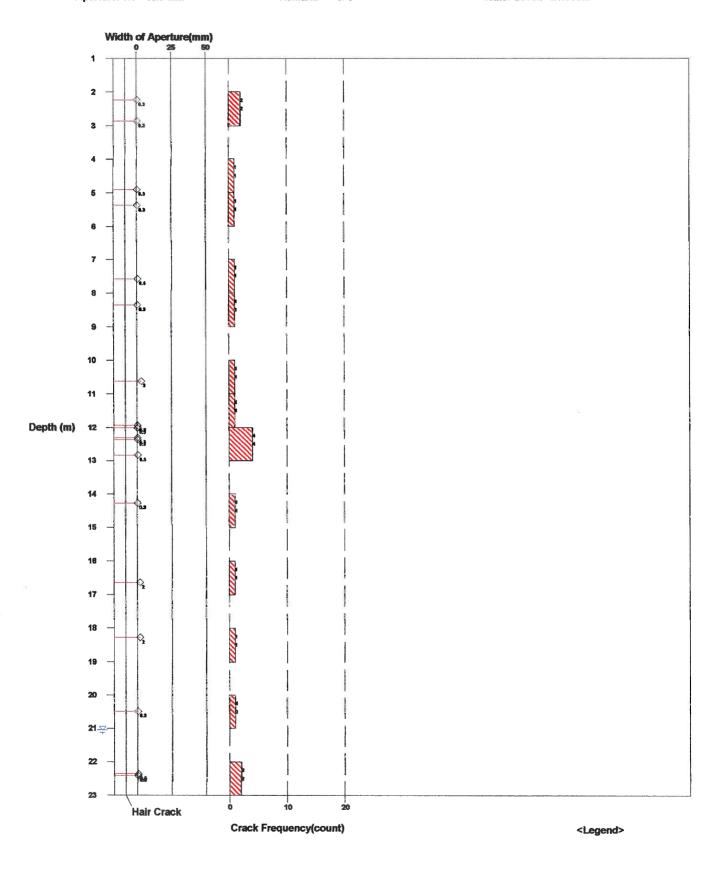


Fig. Rock Mass Condition Graph

All Crack Frequency
Open Crack Frequency

₩ Water Level

Title: C-33.STR Comment: SHEAR ZONE Depth: 1.932 - 22.414 m Aperture: 0.0 - 45.0 mm Sort: 1/7 Form: 5/5 Condition: 11/11 Remark: 9/9 2011/ 8/31

Elevation: 0.000m Water Level: 21.050m

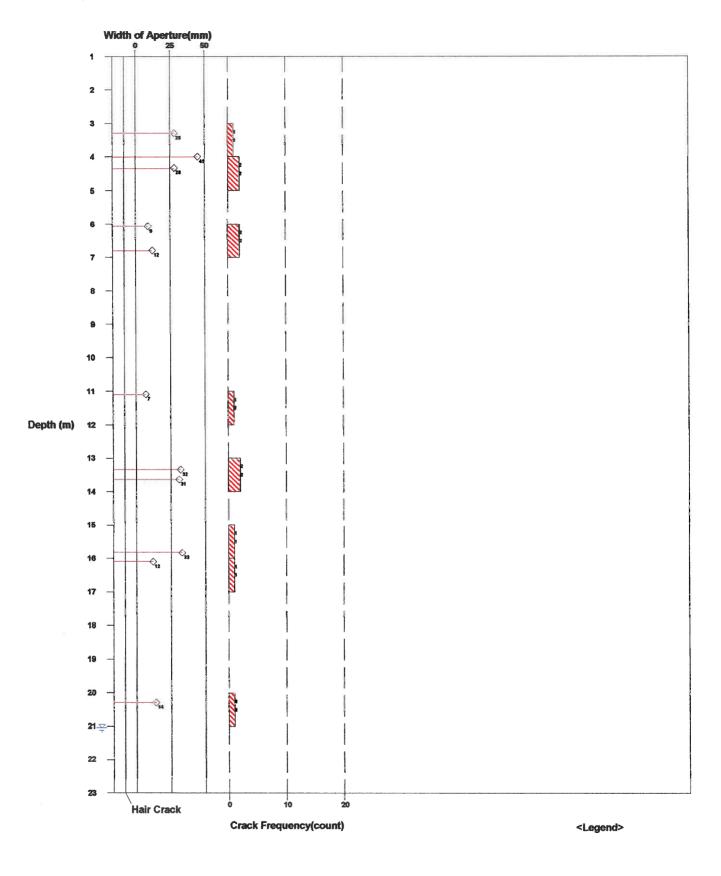


Fig. Rock Mass Condition Graph

All Crack Frequency
Open Crack Frequency

**₩** Water Level

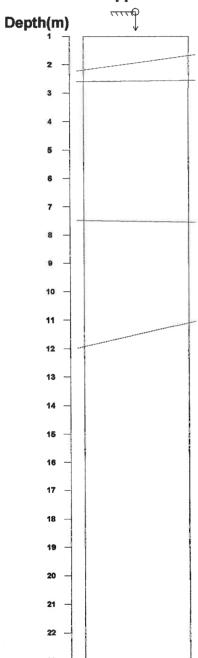
Title: C-33.STR

**Comment: FOLIATION** Depth: 1.932 - 22.414 m Aperture: 0.0 - 45.0 mm Sort: Form: 1/7 5/5

Condition: 11/11

Remark: 9/9

**View Point 2 Profile of Apparent Borehole** 

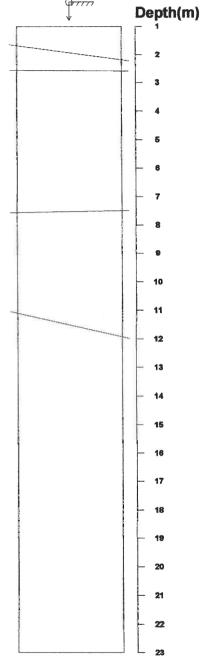


Up(+) (+)qU Down(-) Down(-)

**View Point2View Point1** 

**Profile of Apparent Borehole** 

**View Point 1** 



Direction: 0 deg

Inclination: Vertical(Down)

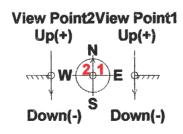
<Legend> Entrance @7777 G.L. <sup>↓</sup> Bottom

Fig. **Apparent Dip** 

Title: C-33.STR **Comment: JOINT** Depth: 1.932 - 22.414 m

Aperture: 0.0 - 45.0 mm

**View Point 2 Profile of Apparent Borehole** 

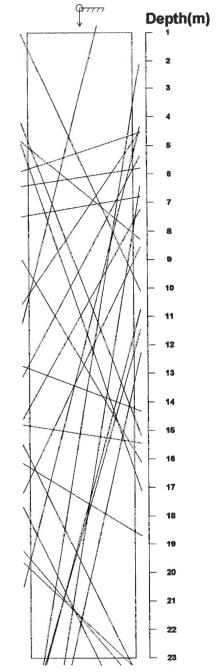


Sort: Form: 1/7 5/5

Condition: 11/11 Remark:

9/9

**View Point 1 Profile of Apparent Borehole** 



Direction: 0 deg

Inclination: Vertical(Down)

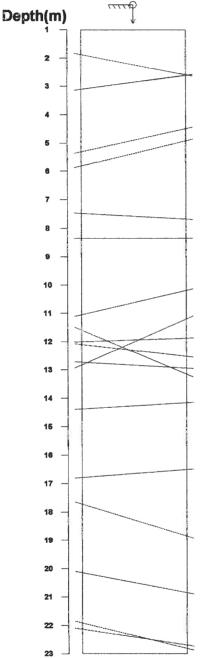
<Legend> Entrance @ G.L **Bottom** 

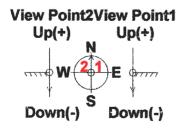
**Apparent Dip** Fig.

Title: C-33.STR **Comment: PARTING** Depth: 1.932 - 22.414 m

Aperture: 0.0 - 45.0 mm

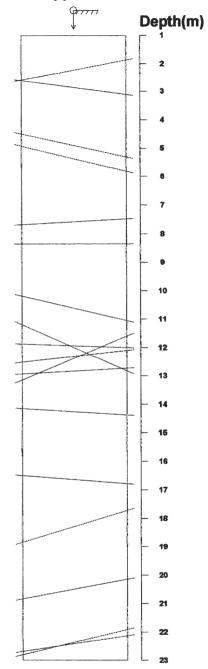
## **View Point 2 Profile of Apparent Borehole**





1/7 Sort: Form: 5/5 Condition: 11/11 Remark: 9/9

#### **View Point 1 Profile of Apparent Borehole**



Direction: 0 deg

Inclination: Vertical(Down)

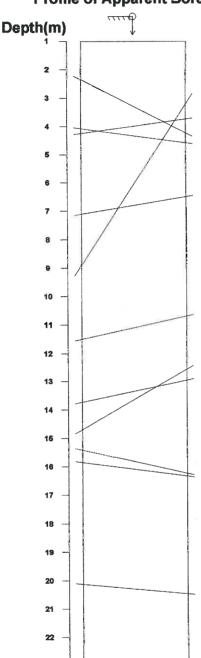
<Legend> Entrance @ G.L **↓** Bottom

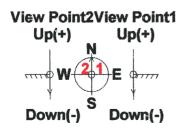
Fig. **Apparent Dip** 

Title: C-33.STR

**Comment: SHEAR ZONE** Depth: 1.932 - 22.414 m Aperture: 0.0 - 45.0 mm

> **View Point 2 Profile of Apparent Borehole**



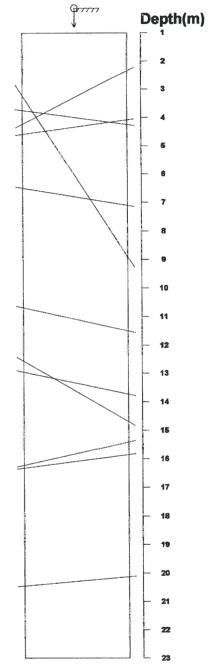


Sort: Form:

1/7 5/5 Condition: 11/11

Remark: 9/9

> **View Point 1 Profile of Apparent Borehole**



Direction: 0 deg

Inclination: Vertical(Down)

<Legend> Entrance @ G.L. **♦** Bottom

**Apparent Dip** Fig.