

MILLER ARGENT (SOUTH WALES) LIMITED
FFOS Y FRAN MATRIX OF CRITICAL FAILURE SURFACES' RESULTS
FOR ANALYSES OF SELECTED OVERBURDEN DUMP SECTIONS 1 - 14

ANALYSIS NO.	STABLE FILE NAME	SECTION GEOMETRY	WATER TABLE	FAILURE GEOMETRY	ANALYSIS TYPE		OB DUMP		MUG/BFILL		B/CLAY		ROCK		F.O.S.
							C	0	C	0	C	0	C	0	
1	P4_14.sta	SECTION No 2 NORTH WEST OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	20	20	-	-	-	-	1.19
2*	P4_14.sta	SECTION No 2 NORTH WEST OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.20
3*	P4_16.sta	SECTION No 4 NORTH WEST OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	20	20	-	-	-	-	1.23
4	P4_16.sta	SECTION No 4 NORTH WEST OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.27
5*	P4_16.sta	SECTION No 4 NORTH WEST OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.18
6	P4_11.sta	SECTION No 5 NORTH EAST OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	20	20	-	-	-	-	1.26
7*	P4_11.sta	SECTION No 5 NORTH EAST OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.32
8*	P4_19.sta	SECTION No 8 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.18
9	P4_19.sta	SECTION No 8 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	20	20	-	-	-	-	1.19
10*	P4_19.sta	SECTION No 8 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.18
11	P4_20.sta	SECTION No 9 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	20	20	-	-	-	-	1.24
12*	P4_20.sta	SECTION No 9 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.24
13*	P4_18.sta	SECTION No 9 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.31
14	P4_13.sta	SECTION No 10 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	20	20	-	-	-	-	1.28
15	P4_13.sta	SECTION No 10 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.29
16	P4_13.sta	SECTION No 10 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.35
17	P4_7.sta	SECTION No 12 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	20	20	-	-	-	-	1.21
18	P4_7.sta	SECTION No 12 SOUTHERN OB DUMP	WATER TABLE AT SURFACE	CIRCLE FROM TOP OF DUMP THEN TANGENTIAL TO BASE OF DUMP	BISHOP		20	20	-	-	0	30	-	-	1.20

* PRINTOUT OF STABLE ANALYSIS INPUT AND RESULTS INCLUDED IN SECTION 6 OF ELECTRONIC RECORDS

MILLER ARGENT (SOUTH WALES) LIMITED
FFOS Y FRAN MATRIX OF RESULTS EXCAVATION SECTIONS A - G

ANALYSIS NO.	FILE NAME	SECTION GEOMETRY	WATER TABLE	FAILURE GEOMETRY	ANALYSIS TYPE	SOIL TIP		MUG/BFILL		ROCK		PAVEMENT		F.O.S.
						C	0	C	0	C	0	C	0	
1*	SECTA.SAR	SECTION A - A'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO INTERSECTION OF PENYDARREN FAULT AND LOWER FOUR FEET SEAM THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	-	-	20	30	50	24	0	19	1.95
2*	SECTB.SAR	SECTION B - B'	DRY	66' WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	-	-	20	30	50	24	0	19	1.83
3	SECTB2.SAR	SECTION B - B'	DRY	80' WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	-	-	20	30	50	24	0	19	3.52
4*	SECTC2.SAR	SECTION C - C'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT AT BACK OF SOLID BUND THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	-	-	20	30	50	24	0	19	1.63
5*	SECTC2.SAR	SECTION C - C'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT AT BACK OF SOLID BUND THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	-	-	20	30	50	24	10	15	1.45
6	SECTC2.SAR	SECTION C - C'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT AT BACK OF SOLID BUND THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	-	-	30	30	50	24	0	19	1.68
7*	SECTD2.SAR	SECTION D - D'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT AT BACK OF SOLID BUND THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	20	20	20	30	50	24	0	19	1.90
8	SECTD2.SAR	SECTION D - D'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT AT BACK OF SOLID BUND THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	20	20	30	30	50	24	0	19	1.93
9	SECTE2.BIS	SECTION E - E'	DRY	CIRCLE TANGENTIAL TO SITE BOUNDARY AND TOE OF EXCAVATION FAILING WITHIN BACKFILL	BISHOP	20	20	20	30	50	24	0	19	2.48
10	SECTE2.BIS	SECTION E - E'	DRY	CIRCLE TANGENTIAL TO SITE BOUNDARY AND TOE OF EXCAVATION FAILING WITHIN BACKFILL	BISHOP	20	20	30	30	50	24	0	19	2.61
11	SECTF2.BIS	SECTION F - F'	DRY	CIRCLE CUTTING THROUGH LAGOON FACE THEN TANGENTIAL TO TOE OF EXCAVATION FAILING WITHIN BACKFILL. SOIL PERAMETERS OF SMALL BUND TAKEN AS BACKFILL	BISHOP	-	-	20	30	30	30	0	19	1.87
12	SECTF2.BIS	SECTION F - F'	DRY	CIRCLE CUTTING THROUGH LAGOON FACE THEN TANGENTIAL TO TOE OF EXCAVATION FAILING WITHIN BACKFILL. SOIL PERAMETERS OF SMALL BUND TAKEN AS BACKFILL	BISHOP	-	-	30	30	30	30	0	19	1.98
13	SECTF2.BIS	SECTION F - F'	WATER LVL AT 326.7M THEN TO TOE OF EXCAVATION	CIRCLE CUTTING THROUGH LAGOON FACE THEN TANGENTIAL TO TOE OF EXCAVATION FAILING WITHIN BACKFILL. SOIL PERAMETERS OF SMALL BUND TAKEN AS BACKFILL	BISHOP	-	-	20	30	30	30	0	19	1.49
14	SECTF2.BIS	SECTION F - F'	WATER LVL AT 326.7M THEN TO TOE OF EXCAVATION	CIRCLE CUTTING THROUGH LAGOON FACE THEN TANGENTIAL TO TOE OF EXCAVATION FAILING WITHIN BACKFILL. SOIL PERAMETERS OF SMALL BUND TAKEN AS BACKFILL	BISHOP	-	-	30	30	30	30	0	19	1.60
15	SECTF3.BIS	SECTION F - F'	WATER LVL AT 326.7M THEN TO TOE OF EXCAVATION	CIRCLE CUTTING THROUGH LAGOON FACE THEN TANGENTIAL TO TOE OF EXCAVATION FAILING WITHIN BACKFILL. SOIL PERAMETERS OF SMALL BUND TAKEN AS BACKFILL	BISHOP	-	-	20	30	30	30	0	19	2.10
16*	SECTG.SAR	SECTION G - G'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT AT BACK OF SOLID BUND THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	20	20	20	30	50	24	0	19	2.74
17	SECTG.SAR	SECTION G - G'	DRY	MULTILINEAR WEDGE FROM SITE BOUNDARY TO LOWER FOUR FEET SEAM PAVEMENT AT BACK OF SOLID BUND THEN ALONG PAVEMENT TO EXCAVATION FACE	SARMA	20	20	30	30	50	24	0	19	2.81
18	SECTG3.BIS	SECTION G - G'	DRY	CIRCLE CUTTING THROUGH FRONT OF SOIL DUMP THEN TANGENTIAL TO BENCH AT ROCKHEAD	BISHOP	20	20	20	30	50	24	-	-	2.29

* PRINTOUT OF STABLE ANALYSIS INPUT AND RESULTS INCLUDED IN SECTION 6 OF ELECTRONIC RECORDS