ANCHOR STRESSING RECORD

Contract Name :	Remedial Works Along Jalan Ranau - Telupid - Slope 16	Anchorage No:	BP17 /GA 1st Layer
Anchorage Location :	Wall 2	Sheet No:	1
Type of Test :	[illegible] or Acceptance	Date:	5 - 11 - 97

Stressing Detail					
Date Stressed	5 - 11 - 97	Date Homed	19 - 8 - 97		
Head Type	6 holes	No.of bars or Strands	6	No	
Jack Type / Capacity	RRH-1508/1500KN	Dia. of bars or strands	15.25	MM	
Load Measurement System	Pressure Gauge	Tendon free length (stressing)	13.43	M	
Displacement measurement System	Steel Rular	Tendon free length (service)	14.03	M	
Datum Point	70 KN	Tendon bond length	6	M	
Working Load	700 KN	Characteristic	260.7	KN	
Test Load	1050 KN	Elastic Modulus	195	KN/mm2	
Lock-off Load	350 x 1.1 KN	Tendon Area	840	MM2	

Grout strength details : **Cube size : 150 x 150 x 150 mm**

Identification	1	2	3	4	5	6
Date cast	19 - 8 - 97	19 - 8 - 97	19 - 8 - 97	19 - 8 - 97	19 - 8 - 97	19 - 8 - 97
Age (days)	7	7	28	28	28	28
Strength (N/mm2)	32.2	32.9	34	35.6	37.3	37.6

Load % Tw	Load KN	Psi	Displacement (mm) At 0 min	Displacement (mm) At 1 min	Ram / Tendon Displacement mm	Anchor head Displacement mm	Corrected Displacement	Time	Remarks
			61			38.17		10:02	
1st Cycle									
10	70	496	69		0	38.09	0	10:03	
50	350	2481	98		29	37.82	29.27	10:04	
100	700	4962	131		62	37.21	62.88	10:05	
125/150	1050	7444	172		103	36.66	104.43	10:06	
After 5 min									
After 15 min									
100	700	4962	155		86	36.66	87.43	10:07	
50	350	2481	120		51	36.69	52.4	10:08	
10	70	496	86		17	37.81	17.28	10:09	
2nd Cycle									
10	70	496	86	86	17	37.81	17.28	10:10	2nd Cycle
50	350	2481	111	111	42	37.13	42.96	10:11	permanent
100	700	4962	142	142	73	36.92	74.17	10:12	Displacement
125/150	1050	7444	176	176	107	36.54	108.55	10:13	6.02 mm
After 5 min			176	176	107	36.52	108.57	10:18	
After 15 min			176	176	107	36.49	108.6	10:28	2nd Cycle
100	700	4962	161	161	92	36.45	93.64	10:29	Elastic
50	350	2481	127	127	58	37.65	58.44	10:30	Displacement
10	70	496	92	92	23	37.79	23.3	03:30	85.3 mm
3rd Cycle									
0									3nd Cycle
0									permanent
100									Displacement
125/150									mm
After 5 min									
After 15 min									3nd Cycle
100									Elastic
50									Displacement
10									mm

Load / Displacement monitoring (Value/% Change)

0 min 155/36.59/0% 5 min 154.98/36.51/0.03%

15 min 154.96/36.63/0.06% 50 min 154.29/37.31/1.09% 2 1/2 hours / 8 hours /

1 day / 3 days / 10 days /

COMMENTS : Monitoring Load = 5459 psi (770 KN)Elongation = 63.13

Lock off at 2729 psi . The elongation is 32.04mm.

The residual load is 2600 psi.

ENGINEER

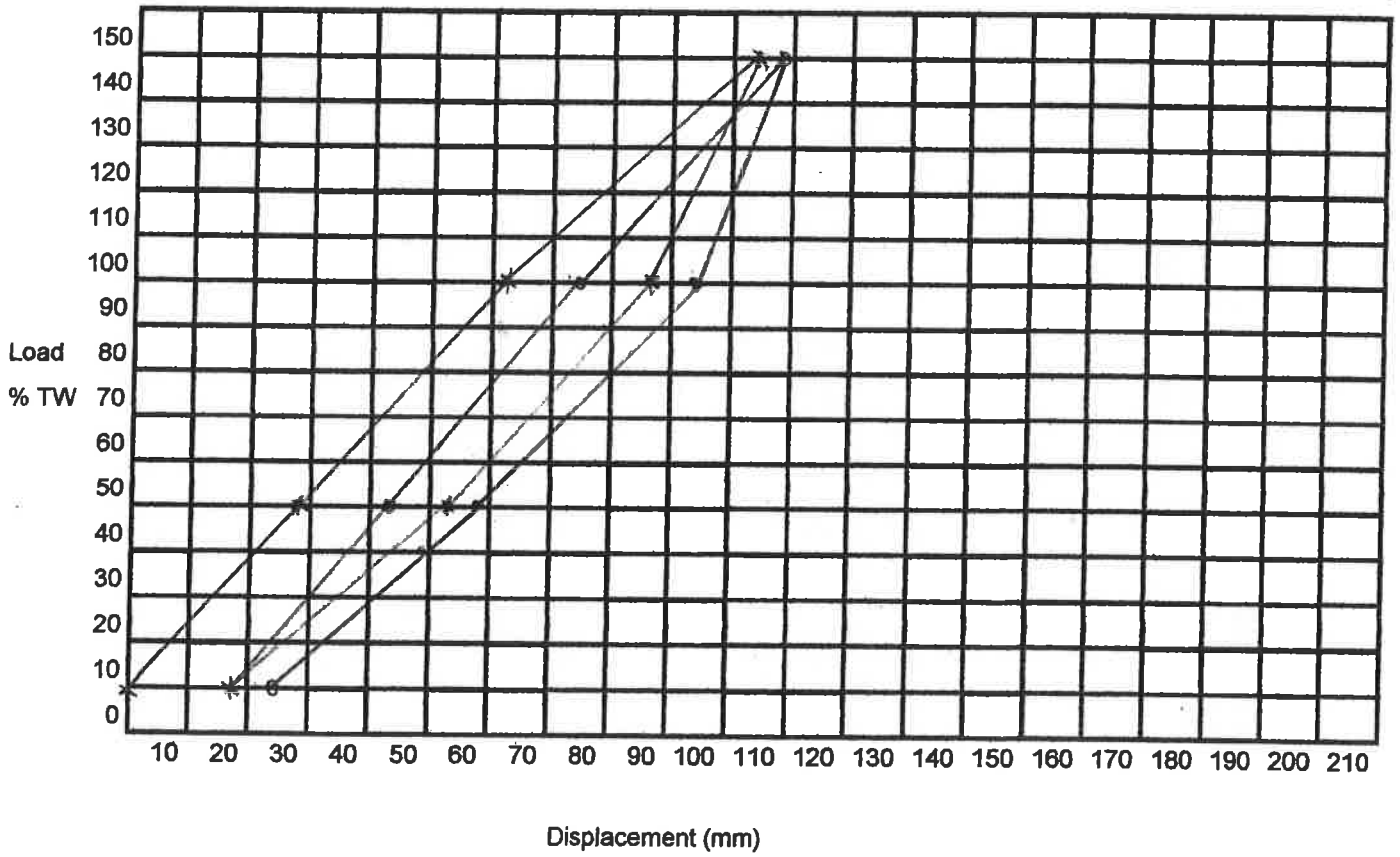
CONTRACTOR

SUBCONTRACTOR

ANCHOR STRESSING RECORD

Contract name : Remedial work along Ranau - Telupid slope 16	Anchorage no : BP 17 / GA 1st Layer
Anchorage location : Wall two	Sheet no : 2
	Date : 5 - 11 - 97

Tendon free length (stressing)		13.4	M
90 % free length		12.1	M
110% free length or free +50% bond length		14.8 / 16.4	M
Apparent tendon free length	At . Es. Elastic displacement / T		
Apparent tendon free length - 2nd cycle		14.3	M
Apparent tendon free length - 3rd cycle			M



COMMENT: _____

ENGINEER : _____

CONTRACTOR : _____

SUBCONTRACTORS: _____

Conclusion

The monitoring load 770 KN (110% TW) with 5458 psi was consistence during the monitoring prossed is carried out .

The lock off procedure is base on the pre calculation of elongation at 50% TW x 1.1 . At the site, the elongation is 32.04mm and the pressure at 2729 psi during lock off . The residual load is 2600 psi .

The apparent tendon free length - 2nd cycle was within the 90% free length and 110% free length .

Hence , we recommend that the anchor is acceptable.