

Slide Name: (GP 12) Hwy 49:04 Ksituan River
Inspection Date: June 11, 2001
Inspection By: Alberta Transportation Staff (see attached list of attendees)
EBA Staff (Karl Li and Tony Ruban)

1.0 BACKGROUND

Refer to EBA 2000 Report for site conditions and details of risk assessment. The current instrumentation data and details of data interpretation are provided in the Spring 2001 Instrumentation Monitoring Report.

2.0 OBSERVATIONS

- The previous and current (June 2001) SI readings were reviewed to indicate that:
 - At the $\frac{3}{4}$ height of slope, movement was monitored at 8 m depth (SI#1).
 - At the mid-height of slope, movement was monitored at 18 m depth (SI#2).
 - Shallow groundwater table was identified at both SI locations.
- A slide remediation design of toe berming was submitted in early Spring 2001 by EBA to Stantec Consultants as part of the highway widening design.
 - In addition to the toe berm, the shifting of the alignment (with excavation of backslope) away from the slide and the lowering of grade was designed as part of the geometric improvement.
- Subsequent to the above site inspection, Karl Li visited the site in late July 2001 and observed that the remediation works were constructed.
 - The remediation construction will downgrade the risk rating because design parameters indicate that a higher factor of safety (F.S.=1.5) is achievable.

3.0 RISK ASSESSMENT

Risk rating has been downgraded from:

Previous: 50 = PF (10) * CF (5), to

Current: 12 = PF (3) * CF (4) (see Spring 2001 Instrumentation Monitoring Report for details)

because of an increase in the factor of safety due to the recent construction of above-mentioned remediation measures. Any current additional comments are provided in the 2001 Spring Instrumentation Monitoring Report.

Note:

This Risk Assessment rating is based on scheme proposed by AT in 2000.

Probability Factor (PF): 1 to 20 scale

Consequence Factor (CF): 1 to 20 scale

4.0 ACTIONS

- Visual and instrumentation monitoring of this site should continue to monitor the performance of recent remediation.



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APPROX. SCALE (metres)

Figure 1
Highway 49:04
Aerial Photo of Site

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