

Slide No. 103



Subsided road embankment in close vicinity of a pond

Amount of loss	Swiss Francs 600,000
Cause	Faulty design
Short description	<p>The lane of the highway closest to the pond subsided considerably because of a ground failure.</p> <p>After excavating only 30 cm of soil, 2.05 m of embankment rest on water saturated terrain.</p> <p>Due to this overload, a 130 m long part of the road slipped towards the pond.</p>
Comments	The proximity of the pond should have been an alarming signal and incentive to calculate the stability of the structure. The expected change of soil quality, especially with the presence of ground water in that area, would have called for a soil improvement treatment prior to putting up embankment.
Conclusion	For foreseeable incidents and events caused by faulty design, the contractor should not be eligible for cover under a CAR policy.



Backfilled embankment after soil collapse.
Destroyed asphaltic layer fell into opening gaps.

Cross section showing movement caused by soil collapse.

