Alberta Transportation
Southern Region Geohazard Assessment
Highway 40, Rocky Creek, Hood Creek and Fortress Junction Cracking Sites
CG25309.B
August 2009





Photo 1 (top) – June 2009 Rocky Creek

Facing downstream along the creek channel from the Highway 40 bridge. Note how the channel is well-entrenched in the alluvial fan deposits.



Photo 2 (bottom) – June 2009 Rocky Creek

Facing upstream along the creek channel from the Highway 40 bridge.





Photo 3 (top) – June 2009
Fortress Junction Road Cracking Site
Facing southbound across the settlement
and cracking area in the southbound lane.
The pattern of the cracking and downdrop
is suggestive of slumping of a segment of
the downslope lane, however when
compared to Photo 4 from the 2005
inspection it does not appear that the
damage to the road surface has worsened
in recent years.



Photo 4 (bottom) – 2005 Fortress Junction Road Cracking Site The same area as shown in Photo 3, as it appeared during the 2005 inspection.





Photo 5 (top) – June 2009 Hood Creek

Facing downstream towards the culvert inlet with Highway 40 visible in the background. A large volume of debris was excavated from this "basin" upstream of the culvert in 2005. It appears that relatively little additional debris has accumulated in this area since that time.



Photo 6 (bottom) – June 2009 Hood Creek

Closer view of the culvert inlet, which was clear of debris at the time of the June 2009 inspection. The inlet was approximately 50% blocked with debris at the time of the 2005 inspection, with the culvert pipe completely filled with debris a few metres in from the inlet.

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Photo 7 (top) – June 2009 Hood Creek

Culvert outlet, which was approximately 1/3 blocked with debris at the time of the June 2009 inspection. The outlet was approximately 50% blocked with debris at the time of the 2005 inspection, with the culvert pipe completely filled with debris a few metres upstream from the outlet.