

**NORTH CENTRAL - ATHABASCA**  
**GEOHAZARD RISK ASSESSMENT**  
**SITE INSPECTION FORM**



SITE NUMBER AND NAME: <b>NC14 Fort Assiniboine</b>		HIGHWAY & KM Hwy 661:02 Km 1.8	PREVIOUS INSPECTION DATE: May 23, 2007	INSPECTION DATE: June 9, 2008
LEGAL DESCRIPTION: NW-1-62-6-W5M	UTM COORDINATES (NAD83): 11 N 6023391 E 644779		RISK ASSESSMENT PF: 8 CF: 4 TOTAL: 32	

SUMMARY OF SITE INSTRUMENTATION: 5 SI's / 12 SP's Two zones of movement SI06-12 & 16; movement rates 1.1 to 2.6 mm/yr Water levels change from -0.28 m to 0.10 m since Fall 2007; ave.levels at 6 to 8 m BGS Probably perched water levels: 2.56 m (SP06-1); 14.67 m (SP06-5)		INSPECTED BY: Evandro Gimenes(Thurber) Renato Clementino(Thurber) Roger Skirrow (AT)
LAST READING DATE:	May 15, 2008	REVIEWED BY: Don Law (Thurber)
PRIMARY SITE ISSUE:	Creep movements causing pavement distress appear to be related to high ground water levels	
APPROXIMATE DIMENSIONS:	About 250 m long	
DATE OF ANY REMEDIAL ACTION:	N/A	

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICEABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	x		Slight dip on pavement along southbound lane ( up to 10 mm diff.)	x	
Slope Movement	x		Slight depression on ground near power pole, south west end		x
Erosion		x			x
Seepage	x		Water level in existing collection well (CSP) lower than in 2007; Water drip	x	
Culvert Distress		x			x

COMMENTS (Refer to Figures 14-1 and 14-2)  
 No noticeable changes in scarps, graben; Collection well (CSP) water level significantly lower than in 2007, appears to be at bottom of well, but steady drip of water.  
 Mid-hill slope slight dip on pavement. Differential 10 mm. Crack up to 30 mm wide. Slow movement rates (< 3mm/yr) probably due to low water levels.

RECOMMENDATIONS  
 Crack seal to reduce infiltration into roadway structure; apply patches on pavement areas when required to improve ride quality.  
 Continue annual inspections. Continue monitoring water levels and creep movements. MCI should inspect after heavy and long precipitation events.  
 Undertake remedial work around collection point (south backslope) as discussed in 2007 report to reestablish collection and drainage of surface water.