STONY PLAIN REGION
GEOHAZARD RISK ASSESSMENT
SITE INSPECTION FORM

SITE NUMBER AND NAME:	HIGHWAY AND KM:	PREVIOUS INSPECTION DATE:	INSPECTION DATE:
NC 47 – Embankment Slope Failure	Access Road 172, km 2.1	May 21, 2010	June 15, 2011
LEGAL DESCRIPTION:	**NAD 83 COORDINATES:**	**RISK ASSESSMENT:**	
SE 4-50-22-W4M		PF: 2 CF: 4 **TOTAL: 8**	

SUMMARY OF SITE INSTRUMENTATION:	INSPECTED BY:
Slope Inclinometer: 1	Adam Gmeinweser, P. Eng. (EBA) Fred Cheng, P. Eng. (TRANS) Sabhago Oad, P. Eng. (TRANS)

LAST READING DATE: May 18, 2011

PRIMARY SITE ISSUE: Shallow rotational failure of south embankment slope remediated in 2008.

APPROXIMATE DIMENSIONS: Approximately 6.1 m in height and 12.2 m in length.

DATE OF REMEDIAL ACTION: October 2008

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	X		Cracks along shoulder associated with embankment failure		X
Slope Movement	X		2H:1V embankment failure stabilized with soil nails		X
Erosion		X			
Seepage		X			
Culvert Distress		X			

COMMENTS:

Rotational failure centered on a culvert; failure possibly due to a high water event.
Soil nailing performed in 2008 to stabilize embankment.
2009 Risk Assessment reduced from 48 to 8 after repairs. Risk level unchanged since 2009.
Location and site plan shown in Figure NC-47.
Site conditions shown in Photos 1 and 2.
Soil stabilization performing reasonably well.

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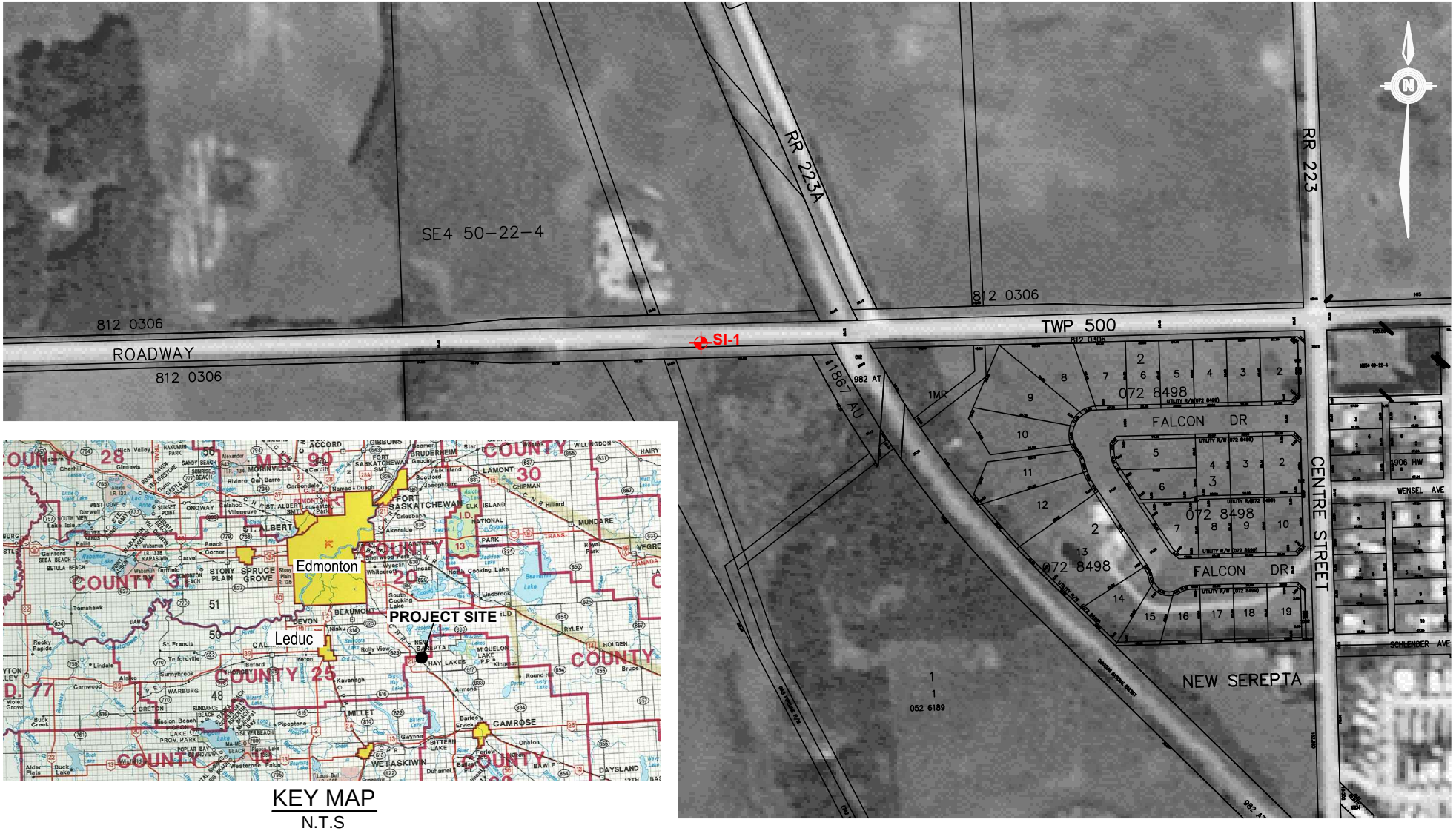
SITE OBSERVATIONS:

- The fill slope is steeper than what is normally constructed by TRANS being approximately 2H:1V and 6.1 m high.
- The slope failure was repaired in October 2008.
- Soil nails sticking out of ground, potentially a risk to public; primarily concerning snowmobile and/or ATV traffic.
- Shallow slope movements have stopped since application of soil nailing in 2008.
- There were minor deep seated movements noted at approximate embankment base level. These could be associated with lateral spreading along organics or wet soils near the culvert/creek location.

RECOMMENDATIONS:

- Consider removing site from GRMP.



KEY MAP
N.T.S

LEGEND

- SLOPE INDICATOR

CLIENT

Government of Alberta ■ Transportation

North Central (Stony Plain)
Geohazard Risk Management Plan
NC-47 New Sarepta (AR-172), Alberta

Site Plan

eba A TETRA TECH COMPANY

PROJECT NO.	DWN	CKD	REV
E12101085.003	DBD	RJM	0
OFFICE: EDM	DATE: November 2009		

Figure NC-47

Photo 1: Repaired sideslope requires topsoil and seeding

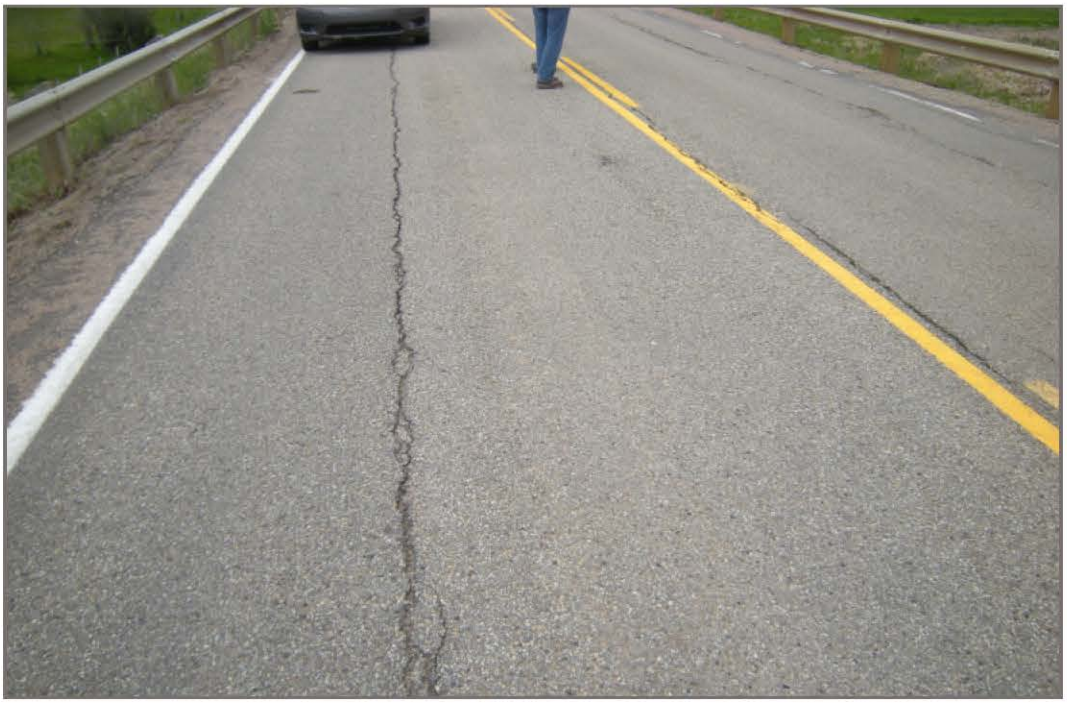


Photo 2: Looking west along Access Road 172; cracks present along roadway