## ALBERTA TRANSPORTATION GEOHAZARD ASSESSMENT PROGRAM PEACE REGION – GRANDE PRAIRIE DISTRICT 2018 CALL OUT



Site Number	Location		Name			Hwy	km	
		noky River East				43:04	34.7	
Legal Description	•	UTM Co-ordinates				·		
SW1/4 16-072-02 V		11U E 420351			N 6121546			
		Date	Date PF CF		CF	Total		
Previous Inspection:		Date			UF CF		Total	
Current Inspection:		24-May-2017	5		2	2 10		
Road AADT:			180				2017	
Inspected By:		Rocky Wang, T Ed Szmata, TR	Cocky Wang, TRANSRenato Clementino, ThurberId Szmata, TRANSNicole Wilder, ThurberId wayne Lowen, TRANSNicole Wilder, Thurber					
Report Attachments:		<ul><li>Photograp</li><li>Plans</li></ul>	<ul><li>Photographs</li><li>Plans</li><li>Maintenance Items</li></ul>					
Primary Site Issue:		Contract N while the o A 1.2 m di Smoky Riv west bound The surface	<ul> <li>Hwy 43 was twinned through the site by AT in 1999/2000 under Contract No. 6335/01 with the construction of a new SBL/EBL, while the original highway became the new NBL/WBL.</li> <li>A 1.2 m diameter CSP culvert is located about 1 km east of the Smoky River Bridge. A dip in the pavement exists on the southern west bound lane.</li> <li>The surface of the WBL has several vehicle marks from the dip and several cracks and ruts present (Photos 1 to 3).</li> </ul>					
Dimensions:			About ~10m stretch of pavement on both WBLs has been affected.					
Maintenance:			No maintenance has been performed recently at the site however, patching took place in 2014/2015					
Observations:		U	Description				orsened?	
Pavement Distress		the WBL	a 1,200 mm diameter CSP at km 34.7 (Photos					
Slope Move	ment							
✓ Erosion		outlet othe downslope at the time exists about	No erosion was evident near the pipe inlet or outlet other than a hint of a depression further downslope from the outlet which was overgrown at the time of the inspection. An erosion gully exists about 140 m southeast of the site within the median.					
✓ Seepage		standing v	No Seepage was observed; however, there was standing water noted near the culvert outlet along with some build up of debris.					
Bridge/Culvert Distress		s inlet; howe the backfill	No significant distress was noted at the outlet or inlet; however, the culvert may be damaged or the backfill surrounding the culvert may not have been compacted adequately.					

□ Other								
Instrumentation: (There are currently no instruments at the site)								
Assessment:								
It is uncertain that the settlement in the pavement is developing at either a disconnected section of the existing centerline culvert or due to the backfill and subgrade not being adequately compacted around the culvert. Once the underlying cause of the settlement has been determined, a proper remediation measure can be provided.								
Recommendations:	Cost							
Short Term								
The MCI and the maintenance contractor should regularly monitor the site and notify Thurber of any signs of further deterioration within the roadway right-of-way.	Maintenance							
This site should be inspected again next year to assess its performance. Consideration should be given to patch the depression to improve roadway driveability.	Maintenance							
The outlet of the 1200 mm diameter culvert within the median on the south side of the NBL/WBL at km 34.7 should also be cleared so build up does not continue.	Investigation							
Medium Term to Long term Perform an investigation using CCTV to identify if there are any flaws within the culvert then repair the damaged culvert by means of lining or replacing it depending on the findings.	tify if there are any flaws within the							























