



**SOUTHERN REGION
GEOHAZARD RISK ASSESSMENT
SITE INSPECTION FORM**



SITE NUMBER AND NAME S022 S Curve		HIGHWAY & KM: 762:02, 8.187	PREVIOUS INSPECTION DATE: July 8, 2020	INSPECTION DATE May 8, 2023
LEGAL DESCRIPTION NW 27-21-4 W5	NAD 83 COORDINATES 50°48.978'N 114°28.572'W		RISK ASSESMENT PF: 1 CF: 4 = TOTAL: 4	
Average Annual Daily Traffic (AADT): 700 (north) & 1320 (south) (Reference No. 65170 & 60180)			Contractor Maintenance Area (CMA): 27	

SUMMARY OF SITE INSTRUMENTATION: None active LAST READING DATE: N/A	INSPECTED BY: Chris Grapel (KCB) Peter Roy (KCB) Renato Macciotta (U of A) Roger Skirrow (AT) Alex Frotten (AT) Maury Siddons (AT)
PRIMARY SITE ISSUE: Landslide movement below road affecting both north and southbound lanes.	
APPROXIMATE DIMENSIONS: 240 m length along highway. Embankment slope is approximately 4 m high, sloped approximately 4H:1V. Natural slope (below toe of embankment) of approximately 3 m high, approximately 10H:1V, continues to creek.	
DATE OF ANY REMEDIAL ACTION: Highway repair completed in Fall 2017. Repair included a new road embankment constructed using Cematrix fill.	

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress		X	New overlay in Fall 2017 as part of construction		X
Slope Movement		X	Shallow failure in field due to construction stockpiles was repaired in 2019.		X
Erosion		X	Embankment slopes well vegetated		X
Seepage		X			X
Culvert Distress		X			X

COMMENTS
Embankment was well vegetated in 2023. No concerns observed. Visit the site once per contract.
Shallow failure in field, south of highway was noticed after stockpiles of fill were placed on the slope during 2017 construction. Cracks noted to extend approximately 50 m from north extents of site. The field was reworked using a bulldozer and no further issues have been reported.

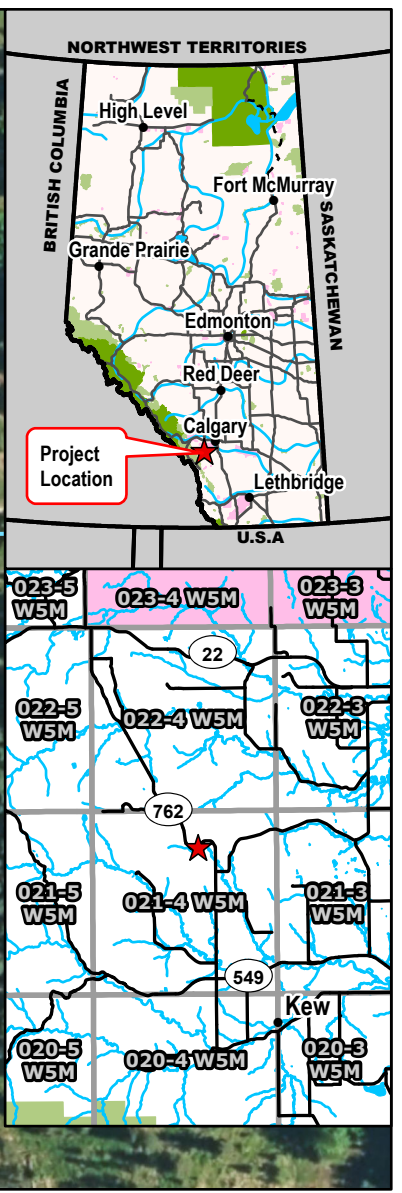
This report is an instrument of service of Klohn Crippen Berger (KCB). The report has been prepared for the exclusive use of Alberta Transportation (Client) for the specific application to the Southern Region Geohazard Risk Management Program (Contract No. CON0022161) and it may not be relied upon by any other party without KCB's written consent.

KCB has prepared this report in a manner consistent with the level of care, skill and diligence ordinarily provided by members of the same profession for projects of a similar nature at the time and place the services were rendered. KCB makes no warranty, express or implied.

Use of or reliance upon this instrument of service by the Client is subject to the following conditions:

- (i) The report is to be read in full, with sections or parts of the report relied upon in the context of the whole report.
- (ii) The observations, findings and conclusions in this report are based on observed factual data and conditions that existed at the time of the work and should not be relied upon to precisely represent conditions at any other time.
- (iii) The report is based on information provided to KCB by the Client or by other parties on behalf of the client (Client-supplied information). KCB has not verified the correctness or accuracy of such information and makes no representations regarding its correctness or accuracy. KCB shall not be responsible to the Client for the consequences of any error or omission contained in Client-supplied information.
- (iv) KCB should be consulted regarding the interpretation or application of the findings and recommendations in the report.
- (v) This report is electronically signed and sealed and its electronic form is considered the original. A printed version of the original can be relied upon as a true copy when supplied by the author or when printed from its original electronic file.

Peter Roy, P.Eng.
Civil Engineer



Legend

- GPS Track (May 9, 2023)
- Watercourse
- - - Site Extent



NOTES:
 1. HORIZONTAL DATUM: NAD83
 2. GRID ZONE: UTM ZONE 11N
 3. IMAGE SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS AND THE GIS USER COMMUNITY.

CLIENT




PROJECT SOUTHERN REGION GEOHAZARD RISK MANAGEMENT PROGRAM		
TITLE Site Plan S022 - S Curve Hwy 762:02, km 8.187		
SCALE 1:1,500	PROJECT No. A05116A03	FIG No. 1

Photo 1 View along south shoulder. Photo taken facing northeast on May 9, 2023.



Photo 2 View along south shoulder. Photo taken facing west on May 9, 2023.

