

SITE NUMBER AND NAME: S067-I and II Sparrowhawk Rockfalls		HIGHWAY & KM: 25291:02, 11.761 to 12.816	PREVIOUS INSPECTION DATE: None	INSPECTION DATE: May 17, 2022	
LEGAL DESCRIPTION:	NAD 83 COORDINATES: UTM Northing Easting		RISK ASSESMENT:		
S067-I: NE-10-23-10-M5	11	5645143 618432	PF: 5	CF: 4	TOTAL: 20
S067-II: SW-10-23-10-M5	11	5644081 618318	PF: 5	CF: 4	TOTAL: 20
AVERAGE ANNUAL DAILY TRAFFIC (AADT): 220 (north) & 360 (south) (Reference No. 70000955 & 70000954)			CONTRACTOR MAINTENANCE AREA (CMA): 28		

SUMMARY OF SITE INSTRUMENTATION: There is no instrumentation at the S067-I and -II sites. LAST READING DATE: N/A	INSPECTED BY: Chris Morgan (KCB) Laura Assaad (KCB) Roger Skirrow (AT) Alex Frotten (AT)
PRIMARY SITE ISSUE: Bridge size CSP culverts below the highway surface at risk of being blocked by debris flows from Mount Sparrowhawk.	
APPROXIMATE DIMENSIONS: 2 m diameter CSP culverts approximately 70 m to 90 m in length (S067-II and I, respectively)	
DATE OF ANY REMEDIAL ACTION: 2013 – road and culvert repair following the 2013 flood event.	

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress		X	The highway is gravel surfaced two lane highway		X
Slope Movement		X	N/A – none observed		X
Erosion	X		Minor riling along creek banks at S067-II		X
Seepage		X	N/A – none observed		X
Culvert Distress		X	2 m diameter CSP culverts underlying highway (oriented approximately northwest-southeast and east-west). Culverts are clear and appear to be in good condition.		X

COMMENTS
S067-I <ul style="list-style-type: none"> Consists of a bridge size CSP culvert (2 m in diameter) under the highway east of Spray Lakes Reservoir. The culvert appears to be in good condition and was open and conveying water during the 2022 inspection. Concrete wingwalls are installed at the culvert inlet. KCB believes there is risk of debris flow from Sparrowhawk Mountain could potentially block the culvert inlet. No concerns were noted regarding the highway embankment during the 2022 inspection.
S067-II: <ul style="list-style-type: none"> Consists of a bridge size culvert (2 m in diameter) under the highway east of Spray Lakes Reservoir. The culvert inlet is armoured with a concrete wing wall. Some erosion riling was noted along the northeast corner of the east embankment. The culvert appears to be in good condition but was partially filled with ice

at the time of our inspection.

- No concerns were noted regarding the highway embankment during the 2022 inspection. Minor erosion (rilling) was observed on the east embankment slope, near the day use parking lot.

Maintenance/Repair/Monitoring Recommendations:

- The S067-I and -II sites should be removed from the GRMP and no longer inspected as part of the Southern Region GRMP Section B inspections.
- AT's MCI should regularly inspection and maintain the site.

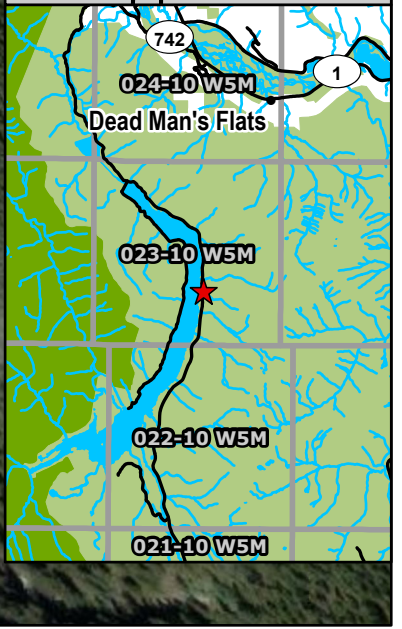
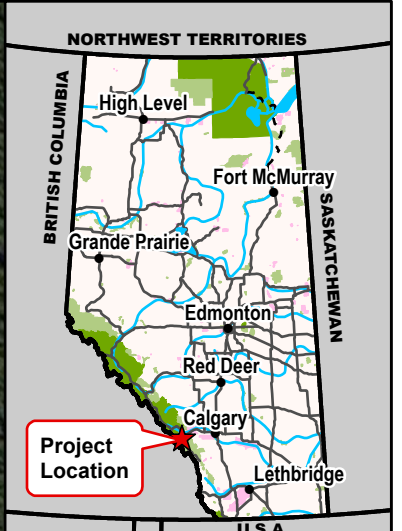
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
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Chris Gräpel, M.Eng., P.Eng.
Senior Civil Engineer, Associate



Legend

-  GPS Waypoint (May 17, 2022)
-  GPS Track (May 17, 2022)
-  Culvert



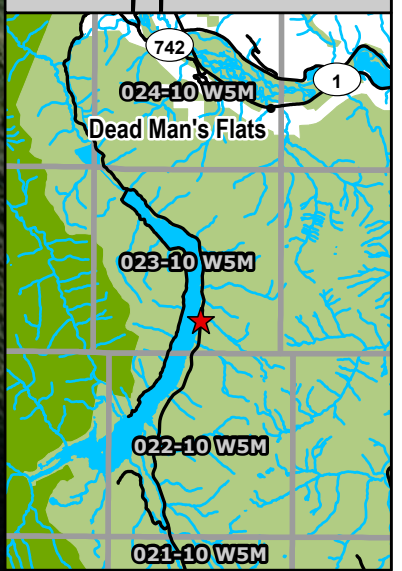
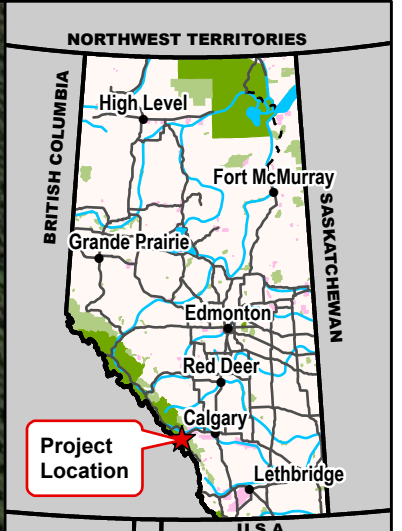
NOTES:
 1. HORIZONTAL DATUM: NAD83
 2. GRID ZONE: UTM ZONE 11N
 3. IMAGE SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS AND THE GIS USER COMMUNITY.






PROJECT
 SOUTHERN REGION GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE
 Site Plan
 S067-1 - Sparrowhawk Rockfall Hazards
 Hwy 25291:01, km 12.816

SCALE 1:3,000 PROJECT No. A05116A03 FIG No. 1



Legend

-  GPS Waypoint (May 17, 2022)
-  GPS Track (May 17, 2022)
-  Culvert

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



PROJECT
 SOUTHERN REGION GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE
 Site Plan
 S067-2 - Sparrowhawk Rockfall Hazards
 Hwy 25291:01, km 11.761

SCALE 1:3,000 PROJECT No. A05116A03 FIG No. 1

Inspection Photographs S067-I

Photo 1 East highway embankment slope. The inlet of the 2 m diameter CSP culvert underlying the highway (orientated approximately east-west) is indicated by red arrow (near WP 91). Photo taken May 17, 2022, facing southeast.



Photo 2 The inlet of the 2 m diameter CSP culvert underlying the highway (orientated approximately east-west) is indicated by red arrow (near WP 91). Photo taken May 17, 2022, facing southeast.



Photo 3 West highway embankment slope. The outlet of the 2 m diameter CSP culvert is indicated by red arrow. Photo taken May 17, 2022, facing northwest.



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S067-II

Photo4 East highway embankment slope. Inlet of 2 m diameter CSP culvert is indicated by red arrow Photo taken May 17, 2022, facing east.



Photo 5 Inlet of the 2 m diameter CSP culvert and east highway embankment slope. Photo taken May 17, 2022, facing north.



Photo 6 West highway embankment slope. The outlet of the 2 m diameter CSP culvert is indicated by red arrow. Photo taken May 17, 2022, facing northwest.



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