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| SITE NUMBER AND NAME: S067-III Sparrowhawk Rockfalls | | HIGHWAY & KM: 25291:02, 10.491 | PREVIOUS INSPECTION DATE: None | INSPECTION DATE: May 17, 2022 |
| LEGAL LAND DESCRIPTION: SW-03-23-10 M5 | NAD 83 COORDINATES: UTM Northing Easting 11 5642827 618220 | | RISK ASSESMENT: PF: 7 CF: 4 TOTAL: 28 | |
| AVERAGE ANNUAL DAILY TRAFFIC (AADT): 220 (north) & 360 (south) (Reference No. 70000955 & 70000954) | | | CONTRACTOR MAINTENANCE AREA (CMA): 28 | |

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| SUMMARY OF SITE INSTRUMENTATION: There is no instrumentation at the S067-III site. 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 culvert (2.3 m diameter) below the highway surface at risk of being blocked by debris flows from Mount Sparrowhawk. Following the 2013 flood, a debris flow plugged the culvert and overflowed onto the road. | |
| APPROXIMATE DIMENSIONS: 2.3 m diameter CSP culverts approximately 30 m to 35 m long. | |
| DATE OF ANY REMEDIAL ACTION: 2013 – road and culvert repair following the 2013 flood. | |

| ITEM | CONDITION EXISTS | | DESCRIPTION AND LOCATION | NOTICABLE CHANGE FROM LAST INSPECTION | |
|-------------------|------------------|----|---|---------------------------------------|----|
| | YES | NO | | YES | NO |
| Pavement Distress | | X | Gravel road. | | X |
| Slope Movement | | X | | | X |
| Erosion | | X | Rip rap armouring along ditch discharging into the culvert. | | X |
| Seepage | | X | | | X |
| Culvert Distress | | X | 2000 mm diameter culvert under highway. Culvert is clear and appears to be in good condition. | | X |

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| COMMENTS |
| The 2022 inspection was the first time KCB and AT inspected the site as part of the Southern Region GRMP Section B inspections. |
| The site consists of a bridge size CSP culvert (2.3 m diameter) under the highway east of Spray Lakes Reservoir (oriented approximately east-west). Sparrowhawk Creek and surface water runoff flow into the culvert and discharges in the Spray Lakes Reservoir. The CSP culvert inlet is armoured with a concrete wing wall (Photo 1). |
| The CSP culvert appears to be in good condition. |
| The channels upstream and downstream of the CSP culvert are well defined, armoured with riprap, and appear to be in good condition (Photo 2 and 3). |
| The highway embankment (upstream and downstream of the culvert) is in good condition. |

Maintenance/Repair/Monitoring Recommendations:

- The site 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.

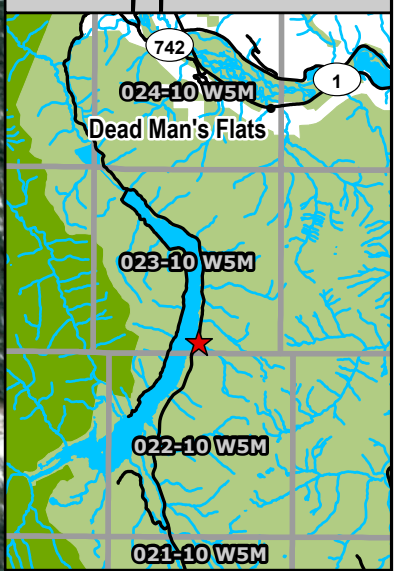
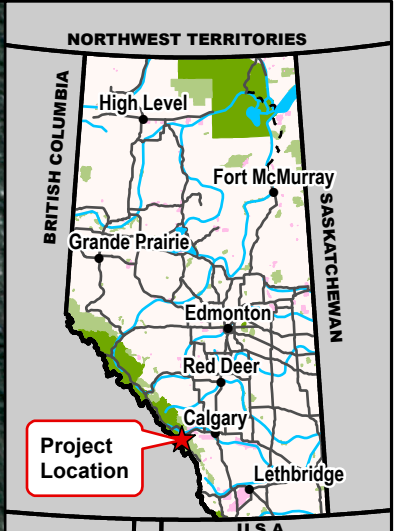
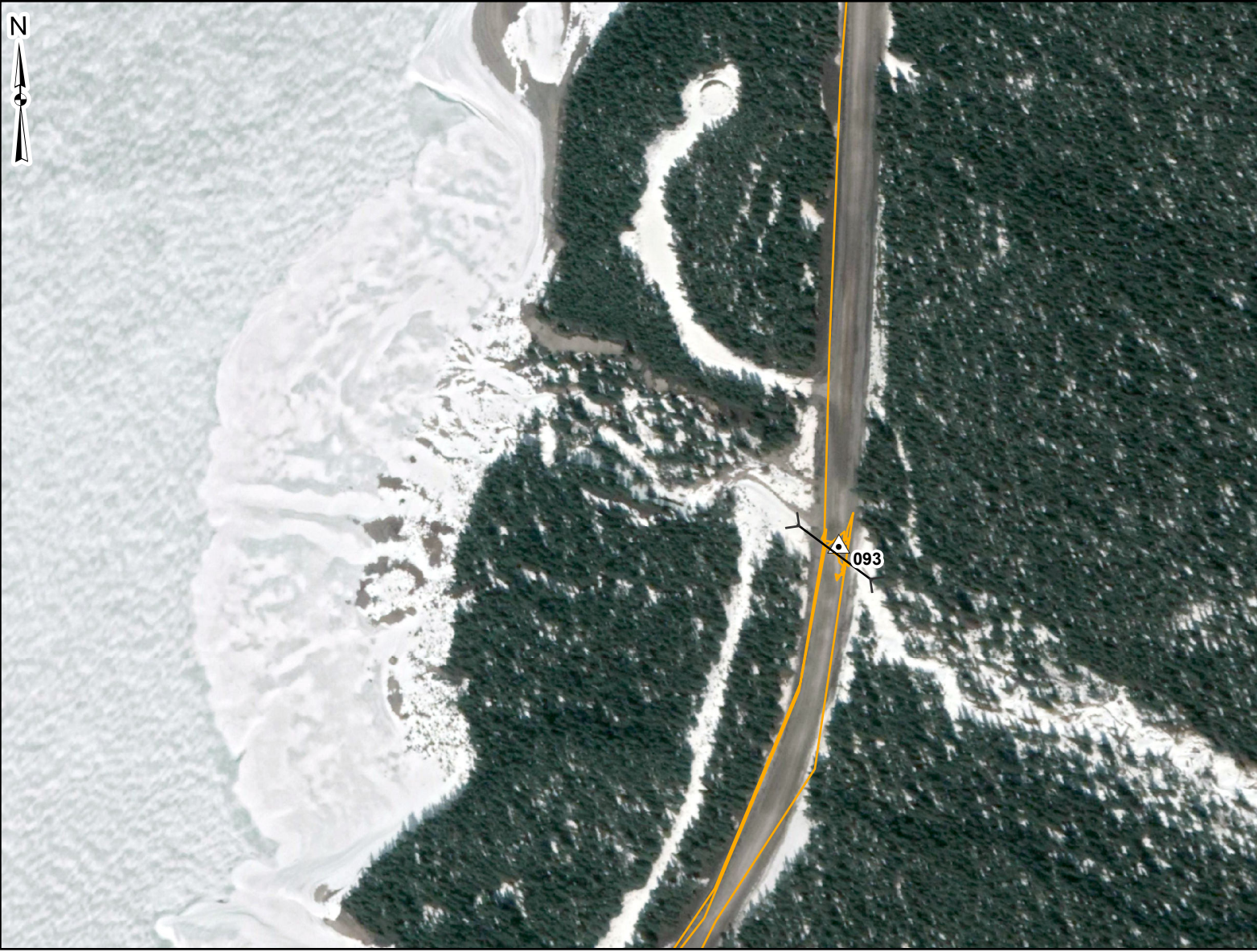
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Chris Gräpel, M.Eng., P.Eng.
Senior Civil Engineer, Associate



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: 2014 GOOGLE EARTH, MAXAR



PROJECT
 SOUTHERN REGION GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE
 Site Plan
 S067-3 - Sparrowhawk Rockfall Hazards
 Hwy 25291:01, km 10.491

SCALE 1:4,000 PROJECT No. A05116A03 FIG No. 1

Inspection Photographs

Photo 1 CSP culvert inlet on east highway embankment slope. Concrete wing walls were installed on either side of the culvert inlet. Photo taken May 17, 2022, facing southwest.



Photo 2 Riprap armoring on the channel upstream of the CSP culvert inlet, on the east side of the highway. Photo taken May 17, 2022, facing southeast.



Photo 3 Culvert discharge on west highway embankment slope. Photo taken May 17, 2022, facing west.



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