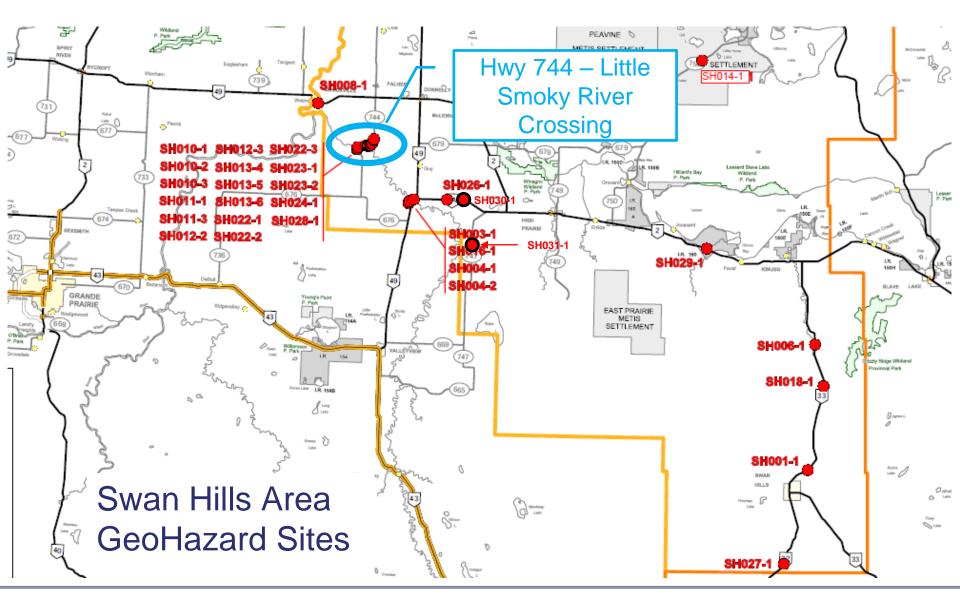
Bi-Annual GRMP Review Meeting Peace Region: Swan Hills District March 7, 2018







Area Summary

2016: 12 super-sites inspected

Combined risk level of 763

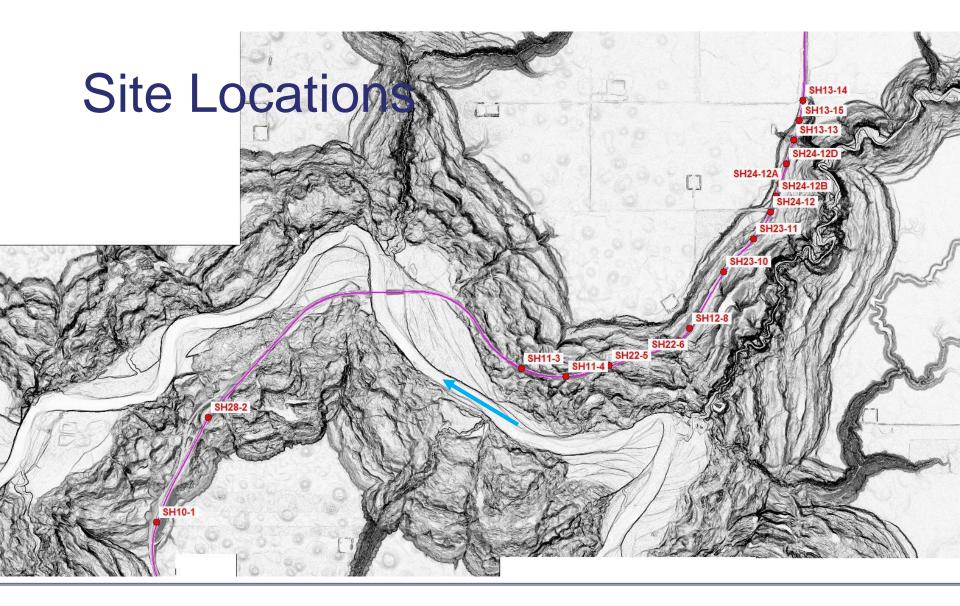
2017: 14 super-sites inspected

- Combined risk level of 724 (for 23 active subsites)
- 3 sites repaired by others, 1 by MCI
 - SH16 toe erosion at south abutment
 - SH26 erosion and embankment failure of large fill
 - SH27 creek erosion
 - SH13-13 new culvert installed to replaced one blocked by embankment failure

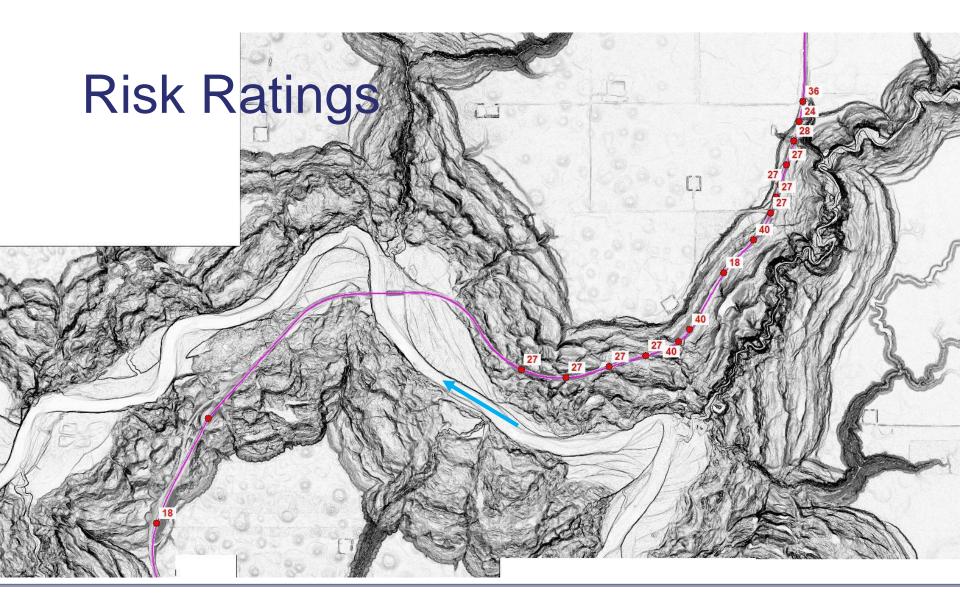




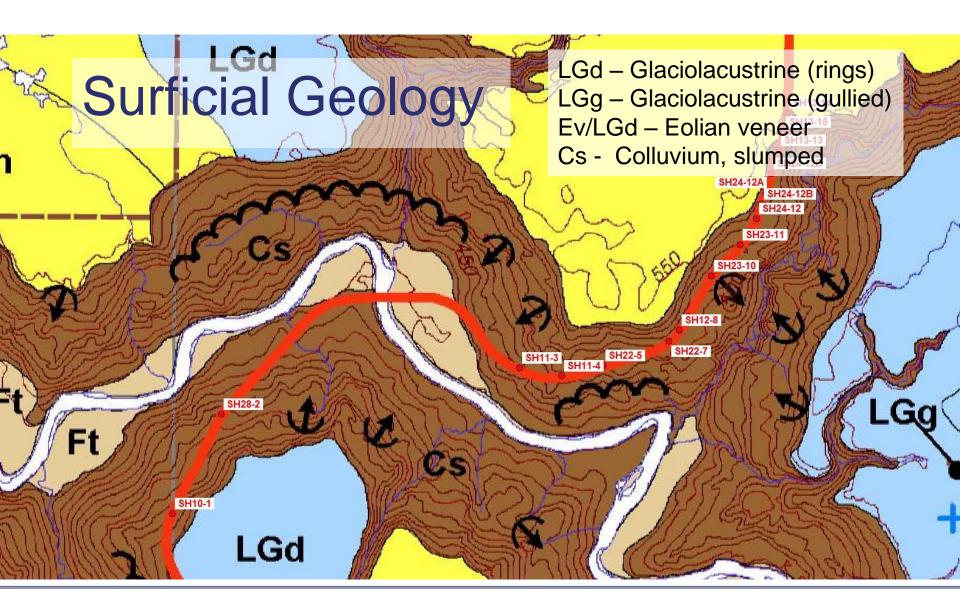














North Hill - Challenges

16 separate sites over 3.5 km

Geologically:

- Valley is 120 m deep
- Slopes moving in at least 3 directions and deeply
- Local issues with seepage, drainage, slumping, and erosion

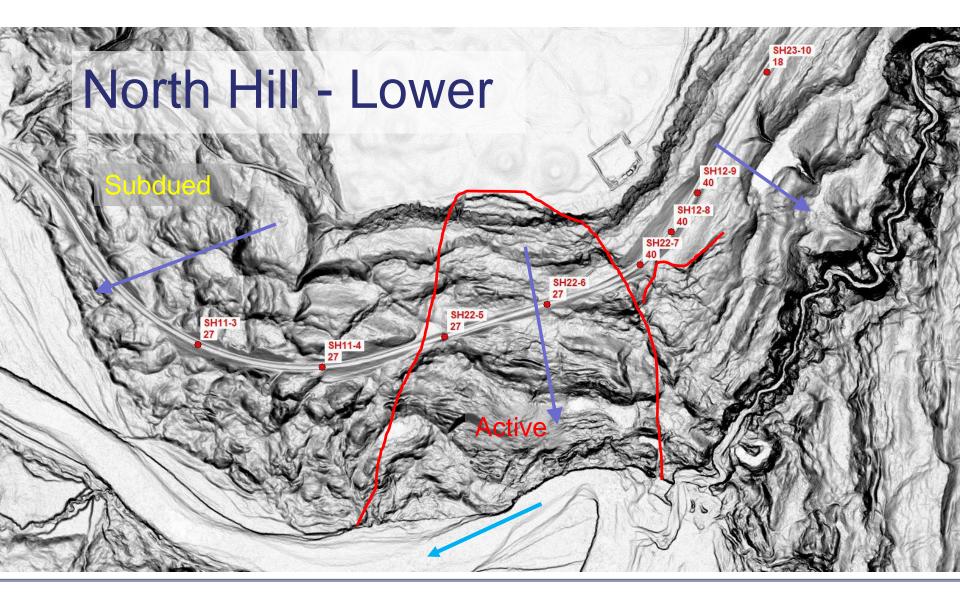
Logistically:

- They all look the same!
- Frequent patching complicates comparison of photos and drawings
- Initial site drawings made before high-res satellite and LiDAR available

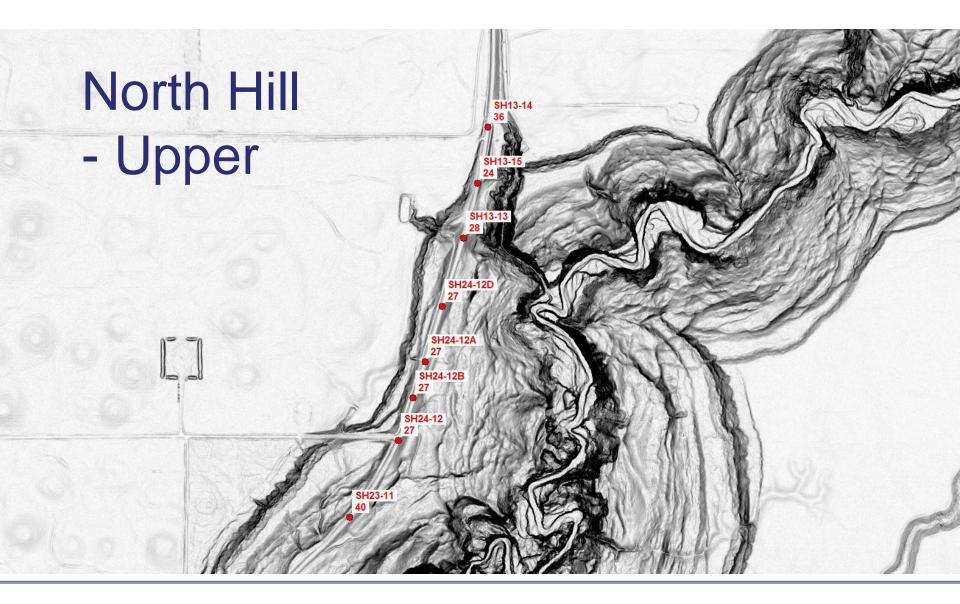
Economically:

AADT is only 260 so limited funds available

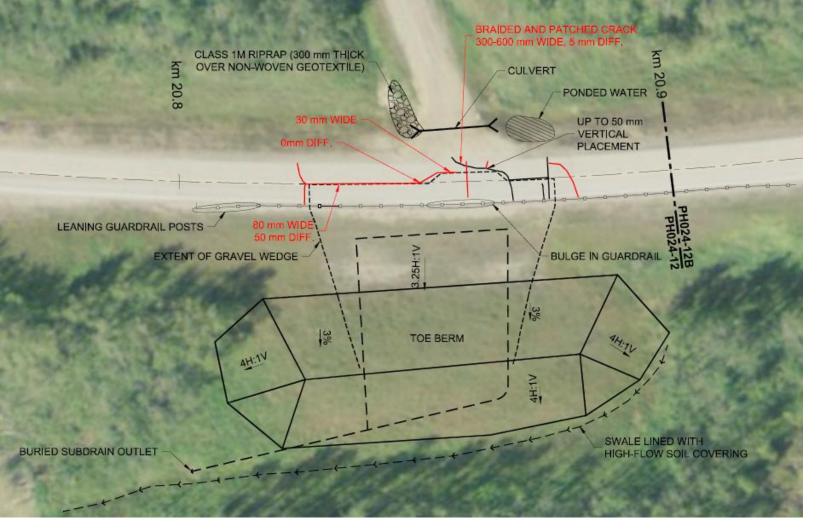










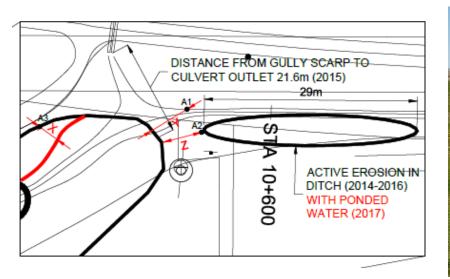


Site 12









DIMENSION	LENGTH (m)			
LABEL	2017	2016	2015	2014
X * (WIDTH)	5.0	-		-
Y (A1 TO CREST)	3.9	4.4	5.6	6.0
Z (A2 TO CREST)	6.9	7.55	8.6	8.7

^{*} LOCATION RESET IN 2017





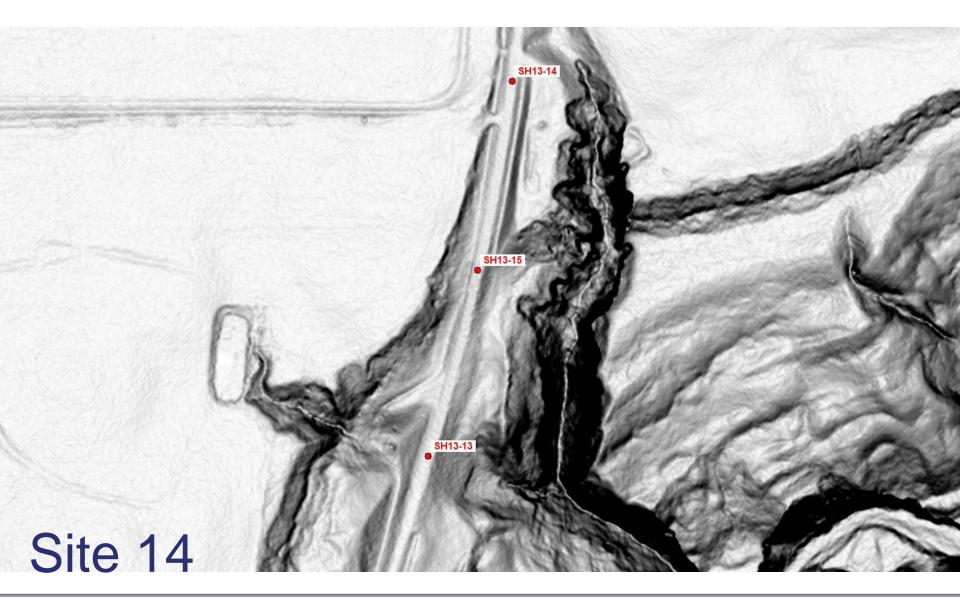
Site 14



Government of Alberta ■



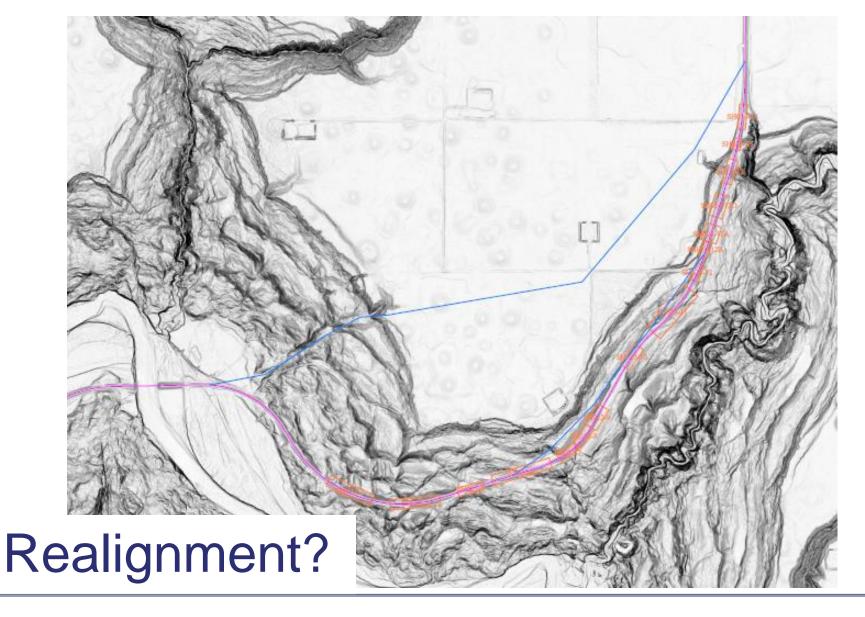


























Thurber's Team – 2017 Swan Hills

- Don Proudfoot, Review Principal inspection and instrumentation report review
- Ken Froese, Project Engineer Project management, site inspection, instrumentation report review
- Barry Meays, Project Engineer site inspection
- Niels Rasmussen, Project Geologist instrumentation coordination and reporting
- Bruce Nestor, Junior Engineer instrumentation coordination and reporting
- Niraj Regmi, Tom Vogt, Aldrin Pascua, Greg Swan instrumentation readings

