III.A. Centerline Cuts Checklist

C-R-S: SCI-823-0.00 (Stage 1)	PID: 77366	Reviewer: B. Mott/E. Tse	Date: 11-16-07

If you do not have a centerline cut on the project, you do not have to fill out this checklist.

Soil Cuts

Y N X   1   Does drilling provide continuous stratigraphic sections for the range of elevations that represent proposed cut slope areas?

Y N X   2   Do the cut slopes have a minimum stability F.S. of 1.30 and are not steeper than 2:1?

           Check stability calculation method used:

           ☒ STABL or equivalent software

           ☐ hand calculations

Y N X   3   If there is a "red bed" or other historically unstable soil or rock layer through the cut slopes, was this layer considered as a possible failure zone?

Y N **X**   4   Have erosion protection measures been addressed for backslopes, side slopes, and ditches (including riprap recommendations or special slope treatments)?

Y N **X**   5   Have issues related to any special usage of excavated soils been addressed?

           6   If the cut is not completely above the water table,

Y N **X**   a   Did the design consider the construction or long term ramifications of cutting below the water table?

Y N **X**   b   Did the design consider additional drainage in the cut slope (springs / seeps) and roadway base?

Rock Slopes

For rockfall and additional design considerations, see the "Rockfall Corrections Checklist."

Y N X   7   Has the subsurface exploration adequately characterized the rock in accordance with the <u>Geotechnical Bulletin 3: Rock Cut Slope and Catchment Design (GB 3)?</u>

Y N X   8   Have the slope angles, benching scheme, rockfall catchment design, and drainage controls been determined as prescribed in GB 3?

Y N X   9   In accordance with GB 3, are the rock cut slopes, benches, and catchment areas indicated on all appropriate cross-sections?

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Y N **X** 10	In accordance with GB 3, has the rockfall catchment software analysis output and the cost analysis comparing catchment configurations been provided?	

Notes:

Stage 1: