HLWYM HEmails

From: Randall Fedors
Sent: Wednesday, October 01, 2008 8:41 AM
To: Stuart Stothoff
Subject: south ramp

Stu,

I converted the survey point (the LSN doc you mentioned) for the north ramp portal to the projection used by all the other GIS data. It's bang on the north portal wall. I also added the Ikonos McSid image, which contains the north ramp portal (the Busted Butte NW quad did not extend far enough east to have the portal). The ESF shape file with the tic marks every 50 meters was also bang on, both the north and south portals. I also looked at the fault trace map, and saw that large faults coincide with the ground features shown on the satellite photos (I checked faults because lithologic contacts are less obvious). The ESF is suppose to be 7877 m long (south portal at 78+77m) according to DLS documentation. I measured from the north portal (in ArcView) and got within 20 m. Hence, I think everything I have is consistent.

The surveyed point (dot on the insert maps) did seem peculiarly further up the slope than I remembered from the field visit; that may just be an illusion when looking at the topo lines.

Measured in ArcView, the surveyed point is 283 m west of the south portal wall. This location would be at the western extent of the seeping, not overlying the largest seepage point.

I agree that our field visit observations of bedrock at the surveyed point appears to contradict the mapped geologic contacts. The surveyed point on my map falls on Tcpmn, our site visit showed lithophysal tuff at the survey stake. One explanation could be that the upper part of the Tcpmn unit can contain lithophysae.

--Randy

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Created By: Randall.Fedors@nrc.gov

Recipients:
"Stuart Stothoff" <sstothoff@cnwra.swri.edu>
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