PMSummerColpEM Resource

From: Sebrosky, Joseph
Sent: Thursday, October 28, 2010 3:09 PM
To: JMGILES@scana.com
Cc: PMSummerColpEM Resource; Stirewalt, Gerry
Subject: Feedback on images from Summer unit 2 excavation
Attachments: PA270350-Unit2TurbineBldg-Oct10.JPG; PA270362-Unit2NIExcavSWCorner-Oct10.JPG

Julie,

The information below is for your consideration. This email is being made publicly available. At some point, perhaps during the December 2, 2010, status call, I would like to have a conversation between our geologist (i.e., Gerry) and your experts as Gerry suggests below to ensure that we are not missing something.

Please let me know if you have any questions.

Sincerely,

Joe Sebrosky

From: Stirewalt, Gerry
Sent: Thursday, October 28, 2010 3:04 PM
To: Sebrosky, Joseph
Cc: Plaza-Toledo, Meralis; Vega, Frankie; Cook, Christopher; See, Kenneth
Subject: Some comments on Summer Unit 2 images!

Joe ... all 5 images sent to us by **Julie** are of interest!

Those of the weathered rock surface at the Unit 2 turbine building location (e.g., attached #350) appear to show that at least some of the materials at this level currently lie in the "zone" of spheroidal weathering, so below the "super-clay-rich" saprolite horizon that develops due to an even greater degree of in-place chemical weathering of the original crystalline bedrock. (We saw materials in both these weathered "zones" during our visit to the excavation in August - the "thumpers" and "thudders" that you and Chris tested with a rock hammer - as you may recall, as well as the solid crystalline bedrock "ringers" made up of metamorphic country rock, Phase I intrusive igneous diorite, and/or Phase II intrusive igneous quartz monzonite.) The 3 turbine building location images sent by **Julie** served to give me a better idea of what the individual who was reporting on blasting progress meant when he referred to the materials underlying the location of the turbine building as "saprolite". While not hard crystalline bedrock, it also is not the sticky clay-rich saprolitic material we observed in the walls above the excavation floor. By its very character, it is likely to be mechanically stronger than the clay-rich, deeply-weathered saprolitic material and that is a good thing.

In addition, assuming that the boreholes shown in the wall of SW corner of the Unit 2 NI excavation (e.g., attached #362) may be the holes in which blast charges were placed, blast damage does not appear to be detrimental along the stretch of wall contained in the image. Closer examination will tell the tale, of course. I do wonder if the rock is metamorhic country rock or intrusive igneous diorite? It certainly does not look like the lighter-colored, more granitic Phase II intrusion (i.e., the quartz monzonite), but this could be a function of lighting of the image scene.

I will be interested in comfirmation of these preliminary quick observations based on the images, or any other comments that can possibly be shared at this stage in regard to what is being found, by a Shaw (**Matt** Cooke) or Fugro-Lettis (**Randy** Cumbest or one of his field team) geologist at the appropriate time. I am providing these preliminary thoughts just to illustrate how useful the images are to us. Please share them with the applicant if considered appropriate to do so at this time to let **Julie** and others know we are perusing and

learning from the images. (Maybe it is better to talk about them in an upcoming call? I have forgotten how we conducted the exchange of ideas about the earlier images they sent to us.) That is, the applicant's efforts to provide the photos is very much appreciated, and they are quite useful for illustrating what is being uncovered as that action proceeds.

Cheerz,
-g-

Hearing Identifier: VCSummer_COL_Public
Email Number: 349

Mail Envelope Properties (36CF286628C20846A68047F24632330933FFB487F3)

Subject: Feedback on images from Summer unit 2 excavation
Sent Date: 10/28/2010 3:08:48 PM
Received Date: 10/28/2010 3:08:53 PM
From: Sebrosky, Joseph

Created By: Joseph.Sebrosky@nrc.gov

Recipients:
"PMSummerColpEM Resource" <PMSummerColpEM.Resource@nrc.gov>
Tracking Status: None
"Stirewalt, Gerry" <Gerry.Stirewalt@nrc.gov>
Tracking Status: None
"JMGILES@scana.com" <JMGILES@scana.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	3535	10/28/2010 3:08:53 PM
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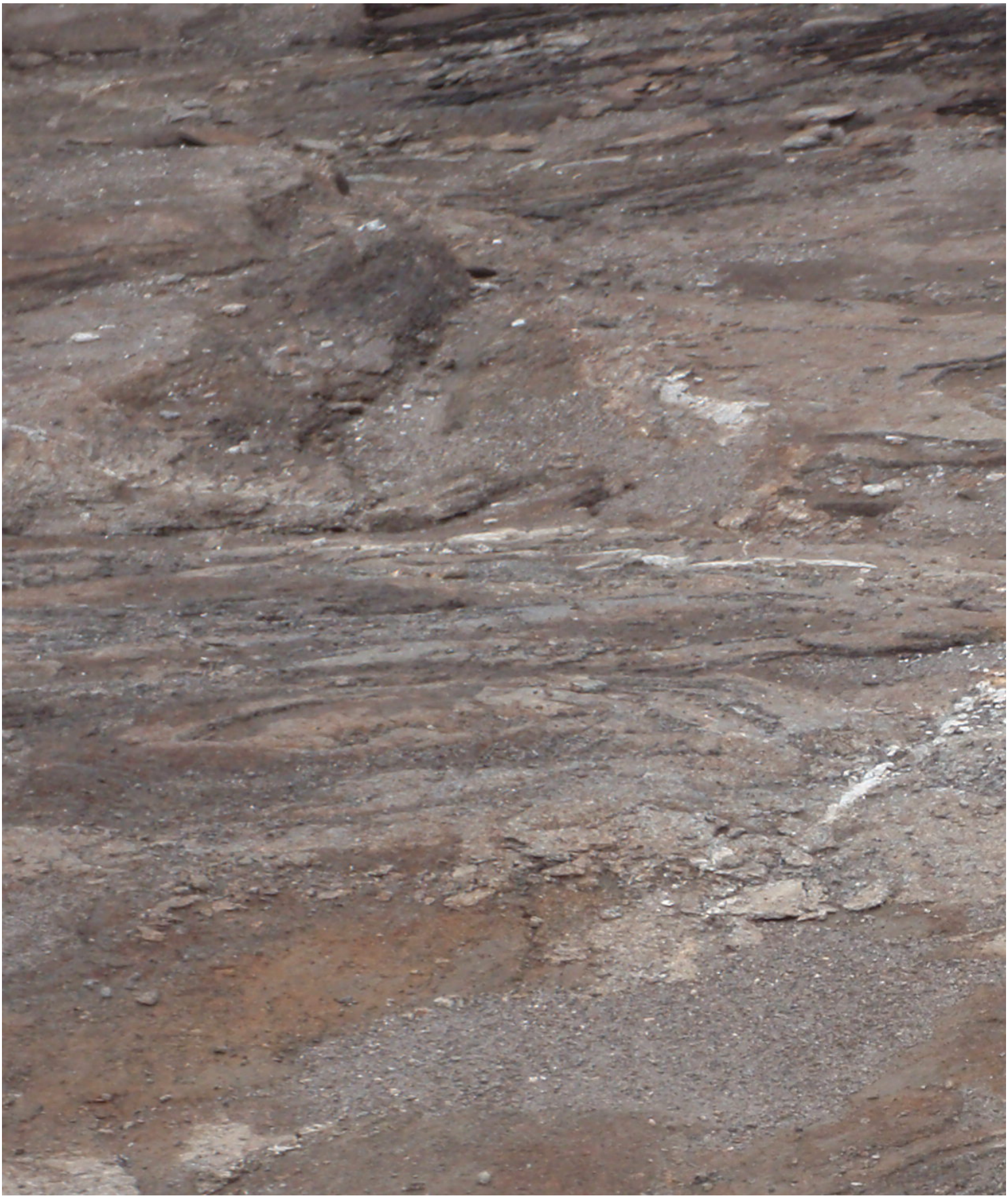
PA270362-Unit2NIExcavSWCorner-Oct10.JPG	2140656	

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Sensitivity: Normal
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Recipients Received: