

**From:** Priscilla Burton  
**To:** OGMCOAL; White Oak  
**CC:** Haddock, Daron  
**Date:** 11/1/2010 12:46 PM  
**Subject:** Fwd: 007001 White Oak, Internal, Soils Analyses  
**Attachments:** u653-654.XLSX

p.s. Wyoming Guidelines were revised in 1996 to describe 0.8 ppm selenium as marginal in the surface 4 ft. of upland areas. (I need to adjust Attachment 1 accordingly).

>>> Priscilla Burton Monday, November 01, 2010 12:28 PM >>>

The attached soils analysis confirm elevated selenium levels in the stream channel soils. The following selenium levels have been reported:

South facing slopes: 0.11 ppm  
Reach 3 & 4: 0.93, 1.43, and 0.74 ppm

Attachment 1 of our Guidelines for Management of Topsoil and Overburden cautions that selenium levels over 0.45 in the rooting zone or in ephemeral drainages should be followed by vegetation and backfill monitoring.

My recommendation is that excess spoil be placed away from the drainage.

>>> Bruce Webb <[bruce\\_webb@byu.edu](mailto:bruce_webb@byu.edu)> Friday, October 29, 2010 2:59 PM >>>  
Priscilla,

Here are the results for selenium you have requested. Let us know if you have any questions.

Rachel