Growing Diversity in Geomembrane Cover Systems
- Some Geotechnical Challenges

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Abstract

Geomembrane cover systems, a common feature in waste containment facilities, have been successfully applied to other geoenvironmental problems. The growing array of geosynthetic products and the techniques for their use enables more diverse applications of this technology. In most cases, water infiltration and erosion control measures are essential to address both stability and environmental concerns, especially on steep slopes (inclinations steeper that 3H:1V). When properly installed and protected, geomembranes offer a nearly impervious barrier to water. Protecting geomembranes on steep slopes presents a number of challenges, including holding the cover system in-place on the slope. Therefore, the key to the successful implementation of steep slope geomembrane cover systems involves using the available array of geosynthetic technologies to prevent sliding of the overall cover system and protect the geomembrane. This presentation presents some examples from various projects highlighting the key geotechnical considerations in the successful implementation of this technology.

****** Everyone is invited – refreshments will be served ******