

**Johnson, Bill H (DNR)**

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**From:** Fred Marinelli <[REDACTED]>  
**Sent:** Thursday, August 16, 2012 10:34 AM  
**To:** Al Trippel  
**Cc:** David Blaha; John L. Adams; Carlson, Erik (DNR); Tina Pint ([REDACTED])  
**Subject:** An idea to consider

All,

An issue with the FTB collection trench during closure is that it will flood and likely transmit water laterally through the pipe and gravel (that is, parallel to the trench alignment). One way to minimize this effect is to breach the trench/pipe with an excavator at a number of locations and backfill with bentonite. This would essentially create dams along the trench\pipe alignment, prevent lateral flow, and encourage more even groundwater upflow into the engineered wetlands.

This is certainly not Einstein thinking; just a suggestion to eliminate lateral flow issues associated with long-term closure.

Fred

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**Fred Marinelli**  
Senior Groundwater Hydrologist

**Interralogic, Inc.**  
4715 Innovation Dr., Ste. 110  
Fort Collins, CO 80525  
Phone: [REDACTED]  
E-mail: [REDACTED]  
Website: [www.interralogic.com](http://www.interralogic.com)