

## Johnson, Bill H (DNR)

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**From:** Fred Marinelli <[REDACTED]>  
**Sent:** Tuesday, October 09, 2012 12:33 PM  
**To:** Cory D. Anderson; Tina Pint ([REDACTED])  
**Cc:** David Blaha; Melinda Todorov; Johnson, Bill H (DNR); Carlson, Erik (MPCA); Houston Kempton; Paul Haby; Fred Marinelli  
**Subject:** Materials used in FTB dams and embankments

Cory,

The Plant Site model appears to be using LTV "other" (or "bank") tailings for the North Dam and LTV coarse tailings for the Cell 2W embankment. Is the choice of these materials documented somewhere, and has the choice been discussed and mutually agreed upon? In general, we have not found documentation to indicate which tailings materials are to be used below each subarea of the FTB. If this exists (outside the model), can you please steer me to it? If it doesn't exist in the documentation, I would suggest a table that shows the tailings material used below each sub-area of the FTB.

Note that with independent calcs, I have been able to reproduce exactly, the transient Sulfate concentrations for Cell 2W fine and Cell 2W coarse. I am uncertain about the Cell 2W embankment, because I don't know which tailings material should be used and why it would be different from the North Dam embankment.

Thanks,

Fred

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