

Johnson, Bill H (DNR)

From: David Blaha <[REDACTED]>
Sent: Thursday, February 02, 2012 2:44 PM
To: Arkley, Stuart (DNR); Carlson, Erik (DNR)
Cc: Al Trippel; Deb McGovern; Fred Marinelli
Subject: FW: Plant Site Phase I Evaluation

Erik/Stuart

Please see Fred's email below

I suggest that we have at least a quick call with Barr ASAP (this afternoon?) to give them the heads up on this and discuss best path forward

Thoughts?

From: Fred Marinelli [[mailto:\[REDACTED\]](mailto:[REDACTED])]
Sent: Thursday, February 02, 2012 3:41 PM
To: David Blaha
Cc: Paul Haby; Fred Marinelli
Subject: Plant Site Phase I Evaluation

Dave,

We have completed the Phase I (input) review of the Mine Site GoldSim model and have initiated review of the Plant Site model based on "NorthMet Plant Site Water Modeling Workplan, v3", dated January 10, 2012. After being very impressed with the accuracy and format of inputs associated with the Mine Site model, we have quickly found many problems and issues in the Plant Site model. These include:

- The tables generated by the GoldSim model to echo the inputs are incomplete and we do not have all of the information we need to complete a Phase I review
- During initial checking, we found a high percentage of mis-matches between values in Table 1-1 (and supporting reference tables) versus values in the GoldSim outputs or in the model itself. For example, in reviewing the first 10 uncertain inputs for Plant Site Hydrology, we identified 8 mis-matches in sampling frequency, means/modes, or standard deviations.
- The files generated by GoldSim to echo the model inputs contain many computed values rather than the inputs we require for a Phase I evaluation.
- We have found instances where the GoldSim outputs contain input values that are not listed in Table 1-1, so we have no basis for comparison of values. An example of this is Table 1-7.

In summary, the information provided for the Plant Site model is insufficient for us to perform a complete Phase I review. Further, our initial evaluation has identified enough mis-matches between workplan documentation and model inputs to indicate that additional work is required by the model developer to reconcile the differences.

Regards,

Fred Marinelli

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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

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