

Johnson, Bill H (DNR)

From: Fred Marinelli <[REDACTED]>
Sent: Monday, October 15, 2012 1:28 PM
To: Jim Finley; Johnson, Bill H (DNR)
Cc: Kunz, Michael (DNR); David Blaha; Fred Marinelli
Subject: Re: FW: GoldSim inputs to Plant Site model
Attachments: Table 1-22.PDF

Thanks Jim.

Bill and Dave,

See attached Table 1-22 from the most recent version of the Plant Site Workplan. Can someone confirm that the new (shaded) entries have been mutually agreed upon by Barr and the Agencies? The new value for sulfur is particularly important.

Thanks,

Fred

On Mon, Oct 15, 2012 at 10:24 AM, Jim Finley <[REDACTED]> wrote:
Hi Fred,

The increase in sulfate release rates from fine (Table 1-13) and coarse (Table 1-14) tailings was established as part of CDF057, which has been essentially approved by Land and Minerals.

I cannot speak to the increases in constituent content for highlighted constituents as listed in Table 1-22.

These are the principal issues I understand you needed help with based on the information in emails and our telephone conversation last week. If I misunderstood what you needed, please give me a call to discuss and I'll do what I can to assist.

regards,

Jim

On 10/10/2012 10:52 AM, Kunz, Michael (DNR) wrote:

Hi Jim – Fred is looking for some assistance with the QA/QC process (see note below, email trail, and attachments). I know we talked about this for earlier QA/QC, so let me know if you are able to help out with this and you can follow up with Fred directly as well...based on you discussion with Fred, you can let me know also the level of effort – my initial thought is that it may be more than only a couple hours...

Thanks much

Mike

Michael R. Kunz, PG, CHMM

Principal Planner

DNR – Land and Minerals

[REDACTED]

[REDACTED]

From: Johnson, Bill H (DNR)
Sent: Wednesday, October 10, 2012 11:42 AM
To: Kunz, Michael (DNR)
Subject: FW: GoldSim inputs to Plant Site model

Mike, as discussed please contact Jim Finley to see if his schedule allows for him to assist Fred with his request for assistance. If yes, please direct Jim to contact Fred; his number is listed below. He is anticipating a call, and expects there's probably a couple of hours of work related to this.

If Jim is not available, then we'll need to assess other means of doing this. Thanks for your assistance. Bill.

Bill Johnson, Mining Section Lead

Environmental Policy & Review Unit

MDNR Division of Ecological & Water Resources

From: Fred Marinelli [[mailto:\[REDACTED\]](mailto:[REDACTED])]
Sent: Tuesday, October 09, 2012 3:08 PM

To: Johnson, Bill H (DNR)

Cc: David Blaha; Al Trippel; Melinda Todorov; Carlson, Erik (MPCA); Houston Kempton; Paul Haby; Fred Marinelli

Subject: GoldSim inputs to Plant Site model

Bill,

Attached are two sets of input tables pertaining to the GoldSim Plant Site model. v6 was used as input to the previous GoldSim model (version 2.3) and v7 is for the current model (version 3.0). The highlighted entries in v7 indicate input values that have changed between GoldSim versions 2.3 and 3.0 (current). It is my understanding that most of these changes have been mutually agreed upon and are documented in CDFs or by verbal agreement with Barr.

I request that your technical team review the v7 tables, focusing on the highlighted entries, and verify that the new inputs are consistent with mutually agreed upon values and/or professional judgment. Particular attention should be paid to geochemical parameters that control chemical releases from the FTB. For example, the sulfur content of LTVSMC tailings has increased from 46.1 to 329 mg/kg, which is a substantial change from model versions 2.3 and 3.0. There are also some significant changes to sulfate release parameters for both LTVSMC and Flotation tailings.

Later this week, I will send two sets of input tables for the Mine Site and request a similar Agency review of these inputs. Feel free to call me at [REDACTED] if you have any questions regarding this request.

Respectfully,

Fred

--

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

--

Jim B. Finley, P.G., Ph.D.
President/Senior Geochemist
Telesto Solutions, Inc.
2950 East Harmony Rd., Ste. 200
Fort Collins, CO 80521

t: [REDACTED]

c: [REDACTED]

--

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