

Johnson, Bill H (DNR)

From: Olson, Michael (DNR)
Sent: Friday, October 05, 2012 3:47 PM
To: Johnson, Bill H (DNR)
Cc: Kunz, Michael (DNR)
Subject: RE: Sulfate release rate for flotation tailings
Attachments: Coarse_SO4_Distributions.pdf; Fine_SO4_Distributions.pdf

Bill,

Looking at the numbers Fred references at the bottom of this email chain, these look to be accurate based on our conversation with Barr last week. We did not receive a tabulation of this data, but the latest values look accurate based on the probability distribution graphs that Barr gave us (attached).

Let me know if you have any other questions.

Mike O

FYI – you sent the previous email to the Michael Olson at DPS, one of the down sides of having a popular name...as you probably know

From: Kunz, Michael (DNR)
Sent: Friday, October 05, 2012 3:40 PM
To: Olson, Michael (DNR)
Subject: FW: Sulfate release rate for flotation tailings

From: Johnson, Bill H (DNR)
Sent: Friday, October 05, 2012 3:38 PM
To: Kunz, Michael (DNR); Olson, Michael (DPS)
Cc: Peter J. Hinck; Tina Pint; Paul Haby; Carlson, Erik (MPCA); David Blaha; Houston Kempton; Cory D. Anderson; [REDACTED]
Subject: RE: Sulfate release rate for flotation tailings

Mikes, please confirm for Fred the values listed below. Thanks. Bill.

Bill Johnson, Mining Section Lead
Environmental Policy & Review Unit
MDNR Division of Ecological & Water Resources

From: Fred Marinelli [REDACTED]
Sent: Friday, October 05, 2012 12:37 PM
To: Johnson, Bill H (DNR)
Cc: Peter J. Hinck; Tina Pint; Paul Haby; Carlson, Erik (MPCA); David Blaha; Houston Kempton; Cory D. Anderson
Subject: Re: Sulfate release rate for flotation tailings

Bill,

Can someone at MDNR confirm that the current values in GoldSim v3 (see below) are correct?

Thanks,

Fred

On Fri, Oct 5, 2012 at 11:32 AM, Cory D. Anderson <[REDACTED]> wrote:

Fred, you are correct in your interpretation.

The previous numbers were averages of a large date range.

CDF057 was Steve Day's proposal for determining the "initial period" release rate.

The GoldSim v3 numbers I believe are from the MDNR systematic proposal for determining the "initial period" release rate.

No mistake, the GoldSim v3 values are the correct numbers.

Thanks Fred,

Cory D. Anderson

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resourceful. naturally.



From: Fred Marinelli [mailto:[REDACTED]]

Sent: Friday, October 05, 2012 12:26 PM

To: Cory D. Anderson

Cc: Paul Haby; Carlson, Erik (DNR); [REDACTED] David Blaha; Houston Kempton

Subject: Sulfate release rate for flotation tailings

Cory,

Can you help me with this? I may be misinterpreting the numbers.

Mean sulfate release in mg SO₄ / kg / week

FTB Fine

Previous 5.97

CDF057 v1 11.9

GoldSim v3 18.8

FTB Coarse

Previous 5.47

CDF057 v1 11.7

GoldSim v3 11.9

Thanks,

Fred

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Fred Marinelli

Senior Groundwater Hydrologist

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