

Johnson, Bill H (DNR)

From: Carlson, Erik (DNR)
Sent: Friday, July 06, 2012 7:42 AM
To: Clark, Richard (MPCA); David Blaha; Engstrom, Jennifer N (DNR); Fred Marinelli ([REDACTED]); Houston Kempton ([REDACTED]); Jim Finley ([REDACTED]); John Adams ([REDACTED]); Koelfgen, Katie E (MPCA); Kunz, Michael (DNR); Liljegren, Michael W (DNR); Neil Schwanz; Olson, Michael (DNR); Wenz, Zach (DNR)
Cc: 'Al Trippel'; 'Deb McGovern'; [REDACTED] Johnson, Bill H (DNR)
Subject: RE: NorthMet EIS Agency Water Model Results Check and ERM QA/QC Task I and Task II

Greetings,

All modeling and text files are available to begin work on the model results check and ERM QA/QC.

Version 1 of the Mine Site and Plant Site GoldSim models have been posted to the project Water Model Results website.

The complete model file packages are posted under the **Model Files – Version 1 – 5Jul2012** heading. These packages include:

- GoldSim model files
- GoldSim player files (free player software available [here](#))
- All input and output files
- Current Data Package and Work Plan documents

The model results spreadsheets have also been posted under the **Model Output – Version 1 – 5Jul2012** heading. These files are identical to those in the model packages, but are compiled here for non-GoldSim user review.

Also

The following documents have been posted to the project site (<https://www.barr.com/ClientRes/>):

Mine Site Water Modeling Data Package (v10)

Mine Site Water Modeling Work Plan (v7)

Plant Site Water Modeling Data Package (v7)

Plant Site Water Modeling Work Plan (v6) was reposted to the website with a correction to a value in Table 1-43 and Table 1-45

Waste Characterization Data Package (v9)

The Water Modeling Data Packages are posted in the Water Pkg folder under Data Packages.

The Water Modeling Work Plans are posted in the Water Pkg folder, Work Plans subfolder under Data Packages.

The Waste Characterization Data Package is posted in the Waste Char Pkg folder under Data Packages.

-Erik

From: Carlson, Erik (DNR)
Sent: Tuesday, July 03, 2012 4:34 PM
To: Clark, Richard (MPCA); David Blaha; Engstrom, Jennifer N (DNR); Fred Marinelli ([REDACTED]); Houston Kempton ([REDACTED]); Jim Finley ([REDACTED]); John Adams ([REDACTED]); Koelfgen, Katie E (MPCA); Kunz, Michael (DNR); Liljegren, Michael W (DNR); Neil Schwanz; Olson, Michael (DNR); Wenz, Zach (DNR)
Cc: 'Al Trippel'; 'Deb McGovern'; [REDACTED] Johnson, Bill H (DNR)
Subject: RE: NorthMet EIS Agency Water Model Results Check and ERM QA/QC Task I and Task II

Barr found a typo in the Plant Site model this afternoon and will be reposting files Thursday. I will send a notice out once they are reposted. The Mine Site Model is good to go.

-Erik

From: Carlson, Erik (DNR)

Sent: Tuesday, July 03, 2012 2:03 PM

To: Clark, Richard (MPCA); David Blaha; Engstrom, Jennifer N (DNR); Fred Marinelli ([REDACTED])
Houston Kempton ([REDACTED]) Jim Finley ([REDACTED]) John Adams
([REDACTED]) Koelfgen, Katie E (MPCA); Kunz, Michael (DNR); Liljegren, Michael W (DNR); Neil Schwanz;
Olson, Michael (DNR); Wenz, Zach (DNR)

Cc: Al Trippel; Deb McGovern

Subject: NorthMet EIS Agency Water Model Results Check and ERM QA/QC Task I and Task II

Greetings,

Version 1 of the GoldSim water model results have been prepared by Barr. These results include all agency-approved CDFs and proposed engineering controls with PolyMet's assumptions about the performance of those controls. If you are unable to access the files you need, please contact Peter Hinck.

Agency Water Model Results Check

Agency staff are invited to review the water model results. I recommend using the model results spreadsheets. The purpose of this review is to identify non-intuitive results and then to discuss them with Barr. This is one of several QA/QC steps to help find issues with the model. Please bring any questions about model results to our weekly water meetings so others can benefit from the discussion. If possible, please forward to me your questions the Friday preceding our weekly water meetings. I will forward them to Barr to give them time to respond to the questions. I will add a placeholder on the agenda for model results questions. **The Agency Model Results Check process will end on July 26, 2012.** Please do not wait until the end of this period to ask questions. We would like to have all questions answered and issues resolved by July 26, not brought forward at that time.

ERM QA/QC

The ERM team is invited to start the Task I and Task II QA/QC process using the files now available. I will put the ERM QA/QC on the July 11 agenda of our weekly water meetings. This discussion is expected to be about the identification of migration pathways that have the most significant effects on chemical concentrations in groundwater and the Partridge River. **ERM is expected to provide the results of their QA/QC by July 25.** Major issues should be brought to the attention of the DNR as soon as possible.

Please contact me if you have any questions about the process.

Thank you for your efforts.

Erik Carlson, AICP

Principal Planner

Minnesota Department of Natural Resources
[REDACTED]

From: Peter J. Hinck [[mailto:\[REDACTED\]](mailto:[REDACTED])]

Sent: Tuesday, July 03, 2012 11:48 AM

To: Carlson, Erik (DNR)

Cc: Jim Scott ([REDACTED]) 'Kevin Pylka'; John Borovsky; Beth Havlik; Tina Pint

Subject: PolyMet NorthMet Water Modeling submittal

Version 1 of the Mine Site and Plant Site GoldSim models have been posted to the project Water Model Results website.

The complete model file packages are posted under the **Model Files – Version 1 – 3Jul2012** heading. These packages include:

- GoldSim model files
- GoldSim player files (free player software available [here](#))
- All input and output files
- Current Data Package and Work Plan documents

The model results spreadsheets have also been posted under the **Model Output – Version 1 – 3Jul2012** heading. These files are identical to those in the model packages, but are compiled here for non-GoldSim user review.

Please let me know if you have any problems accessing the site or any of the referenced files.

Peter J. Hinck, PE

Water Resources Engineer

Minneapolis office: [REDACTED]

cell: [REDACTED]

[REDACTED]

www.barr.com

