

*DNR, Inspection (DNR)

From: Thrift Andrew VHG <Andrew.Thrift [REDACTED]>
Sent: Wednesday, November 26, 2014 5:04 PM
To: Kunz, Michael (DNR); Engstrom, Jennifer N (DNR)
Cc: Kennedy, Chris
Subject: RE: Teck Mesaba: reducing analytical frequency for kinetic tests initiated in 2013

Thanks Mike. The humidity cell analytical frequency reduction decision was time-sensitive due to the ongoing costs, but we don't have other really urgent items (although the secondary minerals research, which is progressing at UMD, is quite interesting and it would be good to get your team up to speed).

Cheers,
Andrew

From: Kunz, Michael (DNR) [mailto:Michael.Kunz [REDACTED]]
Sent: Wednesday, November 26, 2014 11:24 AM
To: Thrift Andrew VHG; Engstrom, Jennifer N (DNR)
Cc: Kennedy, Chris
Subject: RE: Teck Mesaba: reducing analytical frequency for kinetic tests initiated in 2013

Hi Andrew –

I have noted your email and will touch base with Jennifer when back in the office – it is start of a long holiday weekend for us. Hope all is well otherwise on your end!

Regards –

Mike

Michael R. Kunz, PG, CHMM
Principal Planner
DNR – Land and Minerals
[REDACTED]
michael.kunz [REDACTED]

From: Thrift Andrew VHG [mailto:Andrew.Thrift [REDACTED]]
Sent: Tuesday, November 25, 2014 4:57 PM
To: Kunz, Michael (DNR); Engstrom, Jennifer N (DNR)
Cc: Kennedy, Chris
Subject: RE: Teck Mesaba: reducing analytical frequency for kinetic tests initiated in 2013

Hi Mike & Jennifer,

Just a quick note to let you know that we're going to proceed right away with frequency reductions on the humidity cells initiated in 2013. I understand that we're waiting on finalization of a funding mechanism to allow more substantive technical review, but given that this is a minor, low-risk change (e.g., leachate samples archived, stable tests) and our budget is constrained, I need to proceed to reduce the cost of the program. I look forward to discussing the overall ML/ARD program in more detail with you once we've worked out the funding.

Cheers,

Andrew

From: Kunz, Michael (DNR) [mailto:Michael.Kunz@dnr.state.ak.us]
Sent: Friday, August 29, 2014 12:36 PM
To: Thrift Andrew VHG
Cc: Engstrom, Jennifer N (DNR); Kennedy, Chris
Subject: RE: Teck Mesaba: reducing analytical frequency for kinetic tests initiated in 2013

Hi Andrew – Yes will follow up. Thanks and have great long weekend!

Regards,
Mike

Michael R. Kunz, PG, CHMM
Principal Planner
DNR – Land and Minerals
[REDACTED]
michael.kunz@dnr.state.ak.us

From: Thrift Andrew VHG [mailto:Andrew.Thrift@dnr.state.ak.us]
Sent: Friday, August 29, 2014 2:28 PM
To: Kunz, Michael (DNR)
Cc: Engstrom, Jennifer N (DNR); Kennedy, Chris
Subject: RE: Teck Mesaba: reducing analytical frequency for kinetic tests initiated in 2013

Hi Mike,

Noted. Could you touch base next week after you've spoken with your colleagues? Thanks.

Cheers,
Andrew

From: Kunz, Michael (DNR) [mailto:Michael.Kunz@dnr.state.ak.us]
Sent: Friday, August 29, 2014 12:22 PM
To: Thrift Andrew VHG
Cc: Engstrom, Jennifer N (DNR); Kennedy, Chris
Subject: RE: Teck Mesaba: reducing analytical frequency for kinetic tests initiated in 2013

Hi Andrew –

Just a quick reply to ask not to proceed with the reduction next week until you hear back from us. It is late on Friday, of a holiday weekend, and as discussed – I will need to follow up with colleagues here on the information provided, etc.

Regards,
Mike

Michael R. Kunz, PG, CHMM
Principal Planner
DNR – Land and Minerals
[REDACTED]
michael.kunz@dnr.state.ak.us

From: Thrift Andrew VHG [mailto:Andrew.Thrift@teck.com]
Sent: Friday, August 29, 2014 1:57 PM
To: Kunz, Michael (DNR)
Cc: Engstrom, Jennifer N (DNR); Kennedy, Chris
Subject: Teck Mesaba: reducing analytical frequency for kinetic tests initiated in 2013

Hi Mike,

As discussed, I'm writing to let you know about an upcoming change to our ongoing kinetic testing program for the Mesaba project. We exchanged emails in April regarding reducing the analytical frequency for the humidity cells initiated in 2010, after which we implemented a reduced frequency for those HCs.

In 2013 we started another set of humidity cells and columns as part of a waste rock scaling experiment. Those tests have now been running for over 40 weeks and have stabilized. Due to budget constraints and the fact that these tests have stabilized, we're now planning to proceed next week with a similar reduction in analytical frequency for the 2013 tests, as described in the attached memo.

As requested, I've also included plots of the results of the 2013 tests to date. SRK noted that there are some outstanding QA/QC issues that are circled on the pH, Cl, Mn, and Ag charts. They have asked the lab to recheck these results and are awaiting their response.

If you have any questions, please let me know.

Cheers,

Andrew Thrift

Environmental Manager, Mesaba Project

Teck Resources Limited

Suite 3300 - 550 Burrard Street

Vancouver, BC V6C 0B3

Direct Phone: [REDACTED]

Fax: +1.604.699.4535

eMail: andrew.thrift@teck.com