



OGMCOAL DNR <ogmcoal@utah.gov>

Fwd: Crandall isotopes

1 message

Steve Christensen <stevechristensen@utah.gov>
To: OGMCOAL DNR <ogmcoal@utah.gov>

Thu, Jul 10, 2014 at 2:53 PM

----- Forwarded message -----

From: **Marshall, Jay** <jmarshall@coalsource.com>
Date: Thu, Jul 10, 2014 at 10:08 AM
Subject: RE: Crandall isotopes
To: Erik Petersen <petersen@relia.net>
Cc: "Steve Christensen (stevechristensen@utah.gov)" <stevechristensen@utah.gov>

Thanks Erik:

I haven't seen any results and neither has DOGM. They could have been sent here and I haven't seen them. If you follow up with the lab I will check here.

Thanks

Jay

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jmarshall@coalsource.com

From: Erik Petersen [mailto:petersen@Relia.net]
Sent: Thursday, July 10, 2014 10:06 AM

To: Marshall, Jay
Subject: Crandall isotopes

Hi Jay,

Regarding the isotopic sampling at Crandall, yes, the MRP specifies that the mine discharge water (PRE-002) is to be sampled in the second and fourth quarters for the following isotopes: tritium, carbon-14, and deuterium/oxygen-18. I have been collecting the isotopic samples as specified and the samples have all been submitted to the isotopic laboratory (BYU Isotope Laboratory). (The second quarter 2014 samples have been collected and are ready to go to the lab). As you may or may not be aware, the isotopic analysis process is quite complicated and the results are often not available for months (I've actually had some samples take more than a year to get finalized). Depending on where you catch the lab in their analysis cycle, sometimes they can get things done more quickly. I think the Division is aware of this, as Skyline Mine has had isotope analysis in their monitoring plan for years with similar circumstances.

I am not on the list of folks who receive the isotopic results for your samples from the BYU lab. I'm assuming that the samples for the second and fourth quarters of 2013 have all been completed, but I'm not sure about that. I'll check with the laboratory and see what I can find out.

Thanks,

Erik

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