



OGMCOAL DNR <ogmcoal@utah.gov>

Re: Boulger Dam / UT00695 - Skyline Subsidence Memorandum (April 21, 2017)

Steve Christensen <stevechristensen@utah.gov>

Tue, Aug 1, 2017 at 10:47 AM

To: David Marble <davemarble@utah.gov>

Cc: Bret Dixon <bretdixon@utah.gov>, "Stilson, Marc" <marcstilson@utah.gov>, Daron Haddock <daronhaddock@utah.gov>, Dana Dean <danadean@utah.gov>, OGMCOAL DNR <ogmcoal@utah.gov>

Good morning,

I just got off the phone with Gregg Galecki (Skyline Mine). The seismic monitoring plan development is underway. RB&G has been hired by the company and is working on a seismic monitoring plan. Additionally, Gregg is meeting with NIOSH next week to establish a wider monitoring array. I don't have any more information on that at this point.

Gregg indicated that getting the monitoring plan and risk analysis completed and into us for review is at the top of his list. He's shooting for submitting it in a month or perhaps sooner. I will keep you posted.

Regards,
Steve

On Wed, Jul 26, 2017 at 3:47 PM, David Marble <davemarble@utah.gov> wrote:
Steve,

Thanks for the updated mine plan. We would like to review the monitoring plan and the risk analysis Skyline mine references in their April 21, 2017 memorandum when these plans are submitted. We appreciate your cooperation and coordination with us on this plan.

Dave

On Tue, Jul 18, 2017 at 10:13 AM, Steve Christensen <stevechristensen@utah.gov> wrote:
Good morning Bret,

Per our conversation earlier this morning, I've attached Plate 3.1.8-2 . The plate depicts the mine plan that was recently approved as part of the Flat Canyon Lease addition. Once you've had a chance to review it, let us know what your finding is relative to the Boulger Reservoir monitoring that Skyline discussed in it's April 2017 memorandum.

Thanks,
Steve

On Tue, Jul 18, 2017 at 8:14 AM, Bret Dixon <bretdixon@utah.gov> wrote:
Steve,

We did receive a copy of the April 21, 2017 memorandum from the Skyline Mine concerning subsidence effects at the Boulger Dam. It has minimal information, but it does satisfy what we are looking for for this type of dam and it's low hazard rating.

It is noted that the panel layout and location as shown in the April 2017 memorandum is different from what Dana Dean originally sent to our office in February 2017. The layout that Dana sent shows the south panel about 250-feet away from the dam, while the April 2017 memorandum shows the south panel shifted further to the south and about 750-feet away from the dam. We're assuming that the layout shown in the April 2017 memorandum is the correct layout. Please verify.

As far as follow-up items, the one that comes to mind is the statement that the Boulger dam will be instrumented to monitor mining-induced seismicity. As identified within the April 2017 memorandum, this monitoring will need to be initiated well before any mining takes place in close proximity to the Boulger dam. The April 2017 memorandum also identifies that a comprehensive risk analysis will be performed "to determine whether additional monitoring should be

conducted to insure the integrity of the Boulder Reservoir Dam." We look forward to receiving a copy of this risk analysis.

Thanks for your help on this matter.

Bret

—
Steve Christensen
Utah Division of Oil, Gas and Mining
1594 W North Temple, Suite 1210
Salt Lake City, Utah 84116
[\(801\) 538-5350](tel:(801)538-5350)
stevechristensen@utah.gov

—
David K. Marble, P.E.
Assistant Utah State Engineer / Dam Safety
[801-538-7376](tel:801-538-7376)

Emails to and from this email address may be considered public documents and subject to Utah GRAMA requirements.

—
Steve Christensen
Utah Division of Oil, Gas and Mining
1594 W North Temple, Suite 1210
Salt Lake City, Utah 84116
[\(801\) 538-5350](tel:(801)538-5350)
stevechristensen@utah.gov