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OGMCOAL DNR <ogmcoal@utah.gov>

## Monitoring Report South Fork of Quitcupah

Vicky Miller <vmiller@bowieresources.com>

Mon, Sep 23, 2013 at 10:00 AM

To: "Steve Christensen (stevechristensen@utah.gov)" <stevechristensen@utah.gov>, "James Owen (jamesowen@utah.gov)" <jamesowen@utah.gov>, "Amanda Daniels (amandadaniels@utah.gov)" <amandadaniels@utah.gov>

Cc: "OGMCOAL OGMCOAL (OGMCOAL@utah.gov)" <OGMCOAL@utah.gov>, "Hamilton, Rob -FS (rhamilton@fs.fed.us)" <rhamilton@fs.fed.us>

### South For of Quitcupah Stream Channel – Undermining Impacts – Monitoring Plan

September 7<sup>th</sup> thru September 15<sup>th</sup> the area of the Sufco Mine received 4.5 inches of rain. The South Fork of Quitcupah was not monitored during that time due to the condition of the roads and the concern for the safety of the personnel doing the monitoring.

September 16<sup>th</sup> – No impacts noted in the channel related to mining – Flow ranged between 210 to 239 gpm.

According to Erik Petersen there was evidence of very large flows in the channel and large chunks of riparian vegetation had been ripped from the stream banks exposing bedrock. In addition, the stream banks had large deposits of mud and sand, with puddles of standing water. Heavy rains may have influenced the flow measurements in the channel with water leaking from the rain-soaked-saturated alluvium soils along the channel.

September 17<sup>th</sup> and 18<sup>th</sup> – No impacted noted in the channel related to mining. Estimated flow ranged from 69 to 100 gpm. A realignment of the channel was noted at monitoring location 006C due to the storm activity of the previous week which deposited sediment and debris in the channel above and below the monitoring site.

On Mon, Sep 9, 2013 at 8:28 AM, Vicky Miller <vmiller@bowieresources.com> wrote:

South Fork of Quitcupah Stream Channel – Undermining Impacts – Monitoring Plan

August 27, 2013 No access due to rain (muddy, slick roads)

August 28, 2013 No impacts noted in channel related to mining – Flow between 22.5 and 30 gpm

Heavy impact to stream channel due to storms, water damage and sediment deposited approximately 4' outside the bank on each side, sandbars in various locations.

August 29, 2013 No impacts noted in channel related to mining – Flow between 25 and 30 gpm

Impacts to stream channel by livestock

September 1, 2013 No access due to rain (muddy, slick roads)

September 2, 2013 No access due to rain (muddy, slick roads)

September 3, 2013 No access due to rain (muddy, slick roads)

September 4, 2013 No impacts noted in channel related to mining – Flow 21 gpm

September 6, 2013 No impacts noted in channel related to mining – Flow 24.5 gpm

September 9, 2013 No access due to rain (muddy, slick roads)

Questions please contact me at this e-mail address.

Thanks, Vicky

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**From:** Vicky Miller

**Sent:** Monday, August 26, 2013 10:58 AM

**To:** Steve Christensen ([stevechristensen@utah.gov](mailto:stevechristensen@utah.gov)); Hamilton, Rob -FS ([rhamilton@fs.fed.us](mailto:rhamilton@fs.fed.us))

**Cc:** Hansen, Chris; Byars, John

**Subject:** Monitoring Report South Fork of Quitcupah

South Fork of Quitcupah Stream Channel - Undermining Impacts – Monitoring Plan

August 14, 2013 13:40 No impacts noted, creek running normally, creek heavily used by livestock

August 20, 2013 11:45 No impacts noted, creek running normally, heavy use by livestock of the creek between monitoring point 006 and 006B - Flow between 27 – 32 gpm

August 22, 2013 09:45 Creek running , no impacts noted, heavy use by livestock

August 23, 2013 No access due to rain, approximately ½ inch had fallen by noon.

August 26, 2013 No access due to rain, approximately 0.7 inch since Saturday, roads slick and muddy

Questions please contact me at this e-mail address.

Thanks, Vicky Miller

Sufco Mine

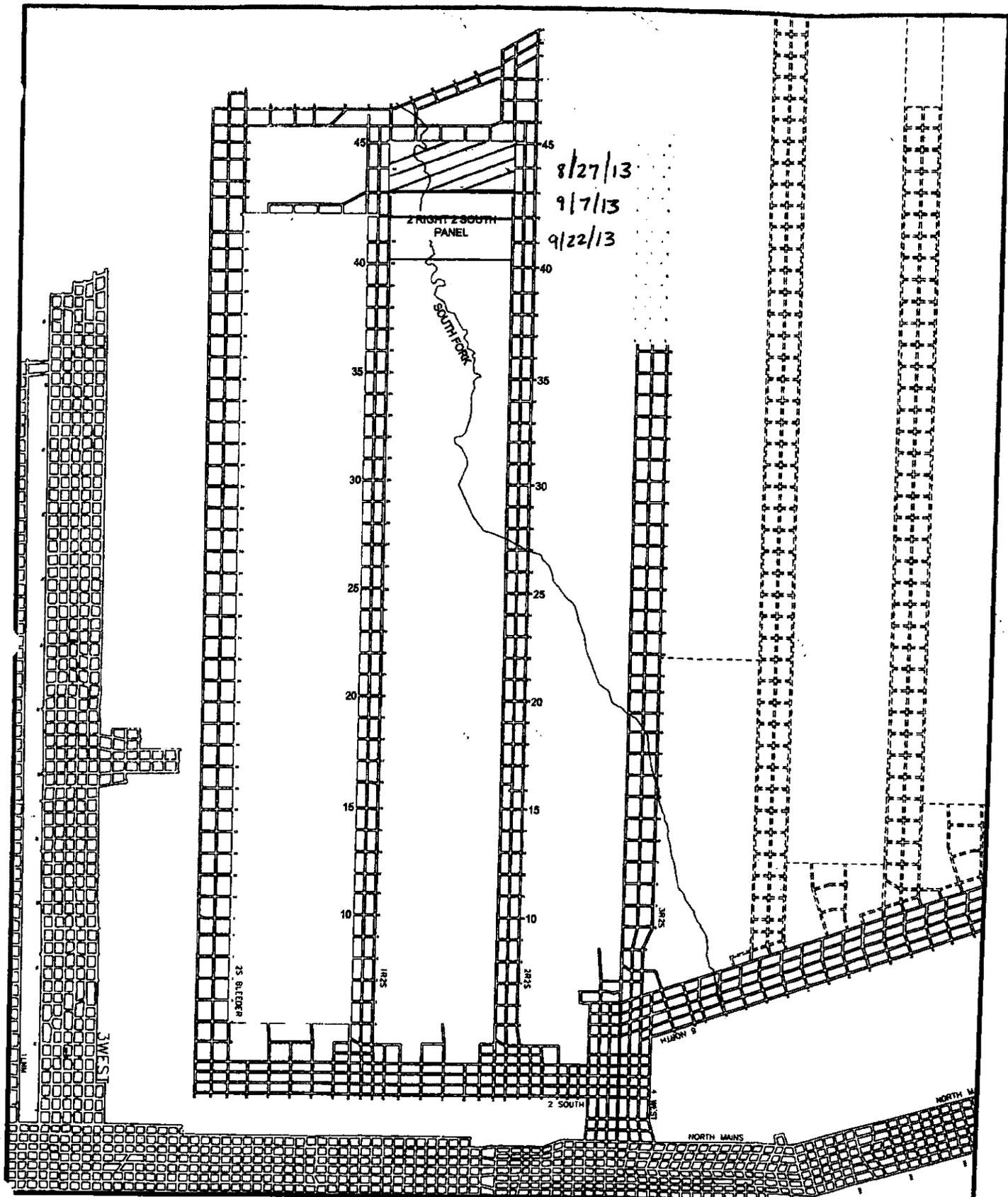
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**SUFCO Mine**  
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**SUFCO MINE**

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SCALE: N.T.S.	DATE: 8/27/2013	DRAWN BY: T.R.B.
ENGINEER:	CHECKED BY:	PROJ: ###
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