



OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

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## South Fork Quitchupah Monitoring

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**Vicky Miller** <vmiller@bowieresources.com>

Mon, Sep 19, 2016 at 12:55 PM

To: Amanda Daniels &lt;amandadaniels@utah.gov&gt;, "Christensen, Steve" &lt;stevechristensen@utah.gov&gt;, "Hamilton, Rob -FS (rhamilton@fs.fed.us)" &lt;rhamilton@fs.fed.us&gt;

Cc: OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;, Vicky Miller &lt;vmiller@bowieresources.com&gt;, Bryant Bunnell &lt;BBunnell@bowieresources.com&gt;, Jacob Smith &lt;jsmith@bowieresources.com&gt;

The South Fork was inventoried on September 1, 7, 8, 9, 12 and 16. The mine site received 0.15 hundredth of rain on September 13<sup>th</sup>, we assume South Fork received similar precipitation. Ponds in the area remain dry. Flow was estimated at 200 gpm on the 7<sup>th</sup> decreasing to approximately 150 gpm by the 16<sup>th</sup>. Similar flow was observed above and below the rock fall and at the confluence of the north and south forks. The springs appeared to be running at similar rate to that observed throughout the past months. A small amount of rock had fallen at the foot of the rock face, none of the rock had rolled down the slope towards the creek. Please call if you need additional information. Thanks, Vicky

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**From:** Vicky Miller**Sent:** Monday, August 29, 2016 8:27 AM**To:** Amanda Daniels <amandadaniels@utah.gov>; Christensen, Steve <stevechristensen@utah.gov>; 'Hamilton, Rob - FS (rhamilton@fs.fed.us)' <rhamilton@fs.fed.us>**Cc:** OGMCOAL DNR <ogmcoal@utah.gov>; Vicky Miller <vmiller@bowieresources.com>; Jacob Smith <jsmith@bowieresources.com>; Bryant Bunnell <BBunnell@bowieresources.com>**Subject:** South Fork Quitchupah Monitoring - 3 Week Report

The South Fork of Quitchupah was inventoried on August 8, 11, 15, 16, 23, 24, & 26. On the 8<sup>th</sup> the flow (210 gpm) was higher in the morning than in the afternoon due to rain. The flow was estimated at approximately 135 – 150 gpm on the other days. There is evidence of the area being used heavily by cattle, on the 26<sup>th</sup> about 20 head of cattle bedded down in the area adjacent to where the culvert goes beneath the road. The three ponds were dry for the entire three week period. Vegetation is still green, usually in August the vegetation is dry and showing heat stress. The springs and seeps above the culvert appear to be flowing as previously inventoried and water is flowing above and below the rock fall at a similar rate. Rain was received on the 7<sup>th</sup>, 15, 17, 23, 24, and 26<sup>th</sup>. Rob Hamilton visited stream locations on August 16<sup>th</sup> with Sufco personnel. Please call if you need additional information. Regards, Vicky

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**From:** Vicky Miller**Sent:** Friday, August 12, 2016 10:03 AM**To:** Amanda Daniels <amandadaniels@utah.gov>; Christensen, Steve <stevechristensen@utah.gov>; 'Hamilton, Rob - FS (rhamilton@fs.fed.us)' <rhamilton@fs.fed.us>**Cc:** OGMCOAL DNR <ogmcoal@utah.gov>; Vicky Miller <vmiller@bowieresources.com>**Subject:** FW: South Fork Quitchupah Monitoring

The South Fork was visited on July 27 & 29 and on August 1 & 4. Water at the road crossing continued to flow at approximately 200 gpm, except on the 4<sup>th</sup> it was flowing at approximately 325 gpm due to rain the evening before. Rain measured at the mine was 0.38", there was potentially greater rainfall at South Fork. Flow was observed above and below the rock fall and the rates appeared similar. The ponds continued to be dry.

Call with questions or if you need additional information. Regards, Vicky Miller

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**From:** Vicky Miller

**Sent:** Thursday, July 28, 2016 8:04 AM

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

**Cc:** Wyatt Shakespear <[WShakespear@BowieResources.onmicrosoft.com](mailto:WShakespear@BowieResources.onmicrosoft.com)>; Vicky Miller <[vmiller@bowieresources.com](mailto:vmiller@bowieresources.com)>; OGMCOAL DNR <[ogmcoal@utah.gov](mailto:ogmcoal@utah.gov)>

**Subject:** South Fork Quitcupah Monitoring

The South Fork was surveyed on July 13, 14, 18, and 20<sup>th</sup>. During the surveys the ponds remained dry. Creek flow remained at approximately 200 gpm at the culvert crossing beneath the road. The bottom of the South Fork Canyon was hiked on the 13<sup>th</sup>, the two springs in the area of the rock fall were sampled, with flow of 5.97 gpm and 3.18 gpm. Flow appeared above and below the rock fall and was similar in quantity. A map showing the location of mining is no longer included since the current panels being mined do not effect South Fork. If you have questions or need additional information, please contact me at this e-mail address or at [\(435\) 286-4481](tel:4352864481). Regards, Vicky Miller



**September 19 Presentation.pptx**  
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