



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

## Monitoring Report South Fork of Quitchupah Creek

1 message

Vicky Miller &lt;vmiller@bowieresources.com&gt;

Mon, Aug 11, 2014 at 11:31 AM

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

Cc: "OGMCOAL OGMCOAL (OGMCOAL@utah.gov)" <OGMCOAL@utah.gov>, John Byars <jbyars@bowieresources.com>, Wyatt Shakespear <WShakespear@bowieresources.com>

During the past two weeks the flow in the South Fork of Quitchupah Creek fluctuated (160 – 350 gpm) due to rain storms. Water was observed to be flowing from Spring 006 (IMGP3834) to the confluence during the past weeks and the flow was estimated to be similar (IMPG3754 & 3822). The cattle population and impacts were estimated to be reduced by 70% during the two week period. The ponds listed in the mitigation plan were dry.

The channel was surveyed for cracks, no new cracks were found. Approximately 0.32 inches of rain fell in the two week period at the mine site, however there was evidence of more substantial rain falling in the vicinity of South Fork (IMGP3828). A drawing showing the location of mining is attached.

Let me know if you have any questions. Vicky

From: Vicky Miller

Sent: Monday, July 28, 2014 9:01 AM

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

Cc: 'OGMCOAL OGMCOAL (OGMCOAL@utah.gov)'; John Byars; Wyatt Shakespear

Subject: Monitoring Report South Fork of Quitchupah Creek

During the past two weeks the South Fork of Quitchupah Creek was observed to be flowing from Spring 006 to below Wedge Spring (IMG3638). The vegetation obscured vision of the flow for a distance, but water was observed to be flowing at the confluence of the North and South Forks of the creek (IMG3728).

The channel and associated vegetation continues to be impacted by cattle (IMG3719). The channel was checked for cracks and none were located.

The mine site received approximately 0.7" of rain during the past two weeks, however the ponds listed in the mitigation plan continued to be dry when checked on July 24th (IMG3734).

A drawing has been attached showing the location of mining as of July 27, 2014.

Please contact me with questions at (435) 286-4481, Vicky.

From: Vicky Miller

Sent: Tuesday, July 15, 2014 10:11 AM

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

Cc: 'OGMCOAL OGMCOAL (OGMCOAL@utah.gov<mailto:OGMCOAL@utah.gov>); John Byars; Wyatt Shakespear

Subject: Monitoring Report South Fork of Quitchupah Creek

The South Fork of Quitchupah Creek was observed to be flowing from Spring 006 to the confluence of the south fork with the north fork during the past two weeks (Photo 3423) Heavy impacts to vegetation and the stream channel from cattle immediately above and approximately 300 meters below where the creek culvert goes beneath the road were noted (Photo 3489).

The ponds listed in the mitigation plan were documented as dry on July 7, 2014. During the July 7th monitoring, the area in the creek where subsidence cracks were repaired was checked and no new cracks were found. The repairs were intact (Photo 3522) and the water flow was observed to be similar above and below the crack repair area.

The springs above the road were checked and were flowing (Photo 3488). The area received rain ( approx. 0.5")the evening of the 9th.

Since the mine just completed the longwall move (thus no mining) a drawing has not been included with this report, but one will be sent with the next report.

Please contact me with questions at (435) 286-4481, Vicky.

From: Vicky Miller  
Sent: Monday, June 30, 2014 11:02 AM  
To: 'Steve Christensen ([stevechristensen@utah.gov](mailto:stevechristensen@utah.gov)<mailto:stevechristensen@utah.gov>); 'Amanda Daniels ([amandadaniels@utah.gov](mailto:amandadaniels@utah.gov)<mailto:amandadaniels@utah.gov>); James Owen; 'Hamilton, Rob -FS ([rhamilton@fs.fed.us](mailto:rhamilton@fs.fed.us)<mailto:rhamilton@fs.fed.us>)'  
Cc: 'OGMCOAL OGMCOAL ([OGMCOAL@utah.gov](mailto:OGMCOAL@utah.gov)<mailto:OGMCOAL@utah.gov>); John Byars; Wyatt Shakespear  
Subject: Monitoring Report South Fork of Quitchupah

The South Fork of Quitchupah Creek was observed to have similar flow from the Spring 006 monitoring point to Stream monitoring point 006C. No new cracks in the creek channel were found during the two week monitoring period. Water was observed flowing in the channel from Spring 006 to the confluence of the North and South Forks of Quitchupah Creek.

A substantial amount of cattle activity was observed near and in the riparian areas.

The flow measurement of 570 gpm taken at Stream monitoring point 006 on June 20th likely includes melting snow from storms on 17th and 18th.

Mining was completed in the 2R 2S Panel on June 28th. A drawing has been provided.

Please contact me with questions at (435) 286-4481. Thanks, Vicky

From: Vicky Miller  
Sent: Tuesday, June 17, 2014 8:08 AM  
To: 'Steve Christensen ([stevechristensen@utah.gov](mailto:stevechristensen@utah.gov)<mailto:stevechristensen@utah.gov>); 'Amanda Daniels ([amandadaniels@utah.gov](mailto:amandadaniels@utah.gov)<mailto:amandadaniels@utah.gov>); 'OGMCOAL OGMCOAL ([OGMCOAL@utah.gov](mailto:OGMCOAL@utah.gov)<mailto:OGMCOAL@utah.gov>); James Owen; 'Hamilton, Rob -FS ([rhamilton@fs.fed.us](mailto:rhamilton@fs.fed.us)<mailto:rhamilton@fs.fed.us>)'  
Cc: John Byars  
Subject: Monitoring Report South Fork of Quitchupah

Sufco personnel hiked into the South Fork on June 3 with Joe Helfrich and Chris Hansen to observe the flow from Wedge Spring and in the channel. The area of the repaired cracks was also observed during the visit. The flow appears similar when compared above and below the repaired cracks. Sufco personnel estimated a flow of 500 gpm in the channel, 200 yards downstream of monitoring point 006A.

We observed similar flow above and below the area of the repaired cracks on June 6th and 10th. Flow measurements were taken by Erik Petersen on the 10th below the repaired cracks at monitoring location 006C (422 gpm) and between 006C and the springs (395 gpm).

The South Fork of Quitchupah Creek was observed by Sufco, Bowie Resources, DOGM and OSM personnel on June 11. The area of the repaired cracks was observed as well as channel flow to the area of Wedge Spring. The flow appeared similar in the locations observed. The stream channel and springs above the road to Spring 006A were inspected for impacts associated with subsidence, to the best of my knowledge no impacts were noted.

On June 12th, three additional small cracks (0.5 to 1.5 inches wide) were discovered in the channel a short distance above the original repaired area. The cracks appeared to have sealed with sediment, but were filled with bentonite as a precaution.

A drawing showing the location of mining is attached to this e-mail. If there are questions please contact me at this e-mail address or by phone at (435) 286-4481, Vicky.

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**5 attachments**



**IMGP3754.JPG**  
1857K



**IMGP3822.JPG**  
1872K



**IMGP3828.JPG**  
1893K

**IMGP3834.JPG**  
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