

Cazier, Tim

From: Comer, Timm [TComer@AngloGoldAshantiNA.com]
Sent: Thursday, May 31, 2012 8:19 AM
To: Cazier, Tim
Subject: Mill Operation
Attachments: Mill Foundation-Liner Analysis letter dated 05-16-12.pdf

Tim,
Attached, please see results of analyses by FLSmidth for operation of the proposed mill upon the underlying geosynthetic liner. The results of the analysis are that the vibration from the operation of the mill will be completely dampened before it reaches the geosynthetic liner.
Timm

Timm C. Comer
Manager, Environmental Resources
AngloGold Ashanti (Colorado) Corp.

Tel: (719) 689-4055
Cell: (719) 650-2615
Fax: (719) 689-3254
E-mail: tcomer@AngloGoldAshantiNA.com

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FLSmidth Salt Lake City Inc.

7158 S. FLSmidth Drive · Midvale, UT 84047 · USA

Tel +1 801 233 5600 · Fax +1 801 233 5601

www.flsmidth.com



DATE: May 16, 2012

ATTN: Mr. Ron Roberts
Cripple Creek and Victor Gold Mining Co.
P.O. Box 191
Victor, CO 80860

SUBJECT: Mill Foundation/ Liner Analysis

Dear Ron,

Ed Summers of FLSmidth has done the analysis for the Ball and Rod Mill foundations as part of the High Grade Ore Project for Cripple Creek and Victor Gold Mining Inc. The entire site is protected from contamination using a geotextile liner and there have been some concerns about the loading that the mills will impose onto this liner.

The liner elevation at the location of the Mills is approximately 9886'-0, while the bottom of the mat foundation is at elevation 9906'-0. This provides approximately 20'-0 of cover for the liner.

I have analyzed the vibration of the Mill foundation using the software package Dyna 6.0, which analyzes foundations for dynamic loading. Using this software, with the soil properties as given by AMEC and the foundation as currently designed, I have determined the system stiffness and damping values. The result of this analysis is that the vibration of the mill will be completely dampened before it reaches the liner.

Both of the mills are supported from a 4'-0 thick mat. The maximum bearing pressure on the mat is less than 4000 psf, while the average soil bearing pressure on the mat is 2000 psf. These values are much less than that given by AMEC as the allowable soil pressure for this site.

The design and analysis of the liner has been done by AMEC and is not part of FLSmidth scope. However, it is our opinion that the loading imposed on the liner is within an acceptable level to prevent liner failure.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ed Summers'.

Ed Summers, P.E.

