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Technical Memorandum Partial Pit Backfill Alternative Viewshed Analysis

To:	<u>Kathy Arnold</u>	From:	<u>David R. Krizek, P.E.</u>
Company:	<u>Rosemont Copper Company (RCC)</u>	Date:	<u>March 08, 2010</u>
CC:	<u>Jamie Sturgess (RCC)</u>	Doc #:	<u>069/10-320871-5.3</u>

This Technical Memorandum presents a Viewshed Analysis for the Partial Pit Backfill Alternative being considered in the US Forest Service Environmental Impact Statement (EIS) for the proposed Rosemont Copper Project (Project). The analysis quantifies the visible disturbance areas associated with each of the alternatives, including the Mine Plan of Operations (MPO).

The Partial Backfill Alternative is assumed to be a variation of the Barrel and McCleary Alternative. Waste rock is assumed removed from the Waste Rock Storage Area and placed in the Open Pit. It is also assumed that waste rock would be removed from the western side and progress eastward. A portion of the top surface may also be lowered. The buttress areas on the eastern and southern sides of the Waste Rock Storage Area are anticipated to remain in place. Only a small portion of the waste rock in the Waste Rock Storage Area is assumed required for pit backfilling.

Due to the limited amount of material expected to be removed, the ultimate height of the Waste Rock Storage Area is not expected to change. Therefore, the overall configuration of the Partial Pit Backfill Alternative would follow the Barrel and McCleary Alternative and would also have similar viewshed analysis results to those generated for the Barrel and McCleary Alternative as described in the Technical Memorandum titled *Barrel and McCleary Alternative Viewshed Analysis* (Tetra Tech, 2010).

References

Krizek, David R., P.E. Tetra Tech (2010). Barrel and McCleary Alternative Viewshed Analysis. Technical Memorandum to Kathy Arnold, Rosemont Copper Company. Technical Memorandum dated March 08, 2010.

Memorandum

To: Beverly Everson
Cc: Tom Furgason
From: Kathy Arnold
Doc #: 009/10 – 15.3.2
Subject: **Transmittal of Viewshed Analysis Technical Memoranda**
Date: March 15, 2010

Rosemont Copper is pleased to present a series of Technical Memoranda on Viewshed Analysis prepared by Tetra Tech and based on criteria specified by Debby Kriegel of the Coronado and Marcie Bidwell of SWCA. The electronic files used in this analysis have been provided as part of the electronic transmittal from Tetra Tech. These analysis include the following alternatives:

1. Mine Plan of Operations
2. Barrel and McCleary Alternative
3. Barrel Only Alternative
4. Scholefield and McCleary Alternative and
5. Sycamore and Barrel Alternative

There is also a discussion of the Visual Analysis as it relates to Partial Backfill.

Rosemont did not participate in the final selection of the visual key observation points and therefore I wanted to register my concern on the ranking system that appears to have been used in this analysis. The analysis shows those areas that are visible from a selected set of seven observation points. Because there was only one observation point chosen on the west side of the ridge rather than the six chosen on the east it appears that the Sycamore Tailings site is not visible. However, after a field trip on the west side the of Santa Rita Mountain ridge, where there were three Forest Service personnel present, it is very apparent that the Sycamore Tailings site will be seen from the all communities and neighborhoods on the west side which would increases the number of affected viewers. Rosemont is concerned that this not be the only measure of visual impact for the Sycamore Alternative.

These Technical Memoranda are dated March 8, 2010 and were provided with the electronic files on the ftp site. Because these were already provided electronically, I am providing two hardcopies and one electronic file to the Forest Service and one hardcopy and one electronic file to SWCA.