



Homestake Mining Company of California

Thomas Wohlford
Closure Manager

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Document Control Desk
U.S. Nuclear Regulatory Commission,
Washington, DC 20555-0001

Mr. Jeffrey Whited
Materials Decommissioning Branch (Mail Stop T-8F5)
Decommissioning, Uranium Recovery, & Waste Programs
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Mr. William Pearson
Ground Water Quality Bureau
New Mexico Environment Department
PO Box 5469
Santa Fe, NM 87502-5469

ATTN: Mr. Sairam Appaji
Region VI Superfund Division
1445 Ross Avenue, Suite 1200
6SF-LP
Dallas, TX 75202-2733

RE: San Mateo Creek Basin and HMC Mill Hydrogeologic Site Conceptual Model

Dear Sirs:

Homestake Mining Company of California (HMC) is working to create an updated groundwater flow model for the Grants Reclamation Project (GRP). The HMC flow model will be used to simulate current GRP groundwater restoration activities and as a tool to predict future remediation efforts including fate and transport of site constituents of concern. The new groundwater model will be a basin-wide model, encompassing the entire San Mateo watershed basin. This is a departure from the older model which was localized to just the immediate environs of the GRP. The attached report is a summary of published hydrogeological data for the San Mateo basin and surrounding region with the greatest amount of information being for the areas of the GRP, former Blue Water Uranium Mill site and Ambrosia Lake in the Upper San Mateo Basin. After submittal of this report, the next step is to create a development plan for the proposed groundwater model which will also be shared with the regulatory agencies.

Thank you for your time and attention on this matter. If you have any questions, please contact me at the Grants office at 505.287.4456, extension 34, or call me directly on my cell phone at 505.290.2187.

NM5501

Conceptual Model

Respectfully,



Thomas Wohlford

Closure Manager

Homestake Mining Company of California

Office: 505.287.4456 x34 | Cell: 505.290.2187

Copy To:

- B. Tsosie, DOE, Grand Junction, Colorado (electronic copy)
- M. McCarthy, Barrick, Salt Lake City, Utah (electronic copy)
- C. Burton, Barrick, Henderson, Nevada (electronic copy)
- C. Zimmerman, Brown & Caldwell, Reno, Nevada (electronic copy)