



# MEMORANDUM

## High Level Summary of New Remediation Initiatives

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Date: 07 March 2014  
From: Jesse R. Toepfer, Closure Manager  
To: David Mayerson, Mining Environmental Compliance Section, Ground Water Quality Bureau,  
New Mexico Environment Department  
RE: Homestake Uranium Mill Tailings Site

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The following highlights are being provided for informational purposes only, and are intended to summarize Homestake's current thoughts regarding the short to medium term remediation initiatives for the Grants site. It should be duly noted that these plans are contingent upon a number of items. Chief among these contingencies is the ability to receive the necessary permits and approvals in a timely fashion from the appropriate regulatory agencies. Additional items that have the potential to affect our anticipated time schedules include: commissioning issues for the new reverse osmosis equipment and zeolite system, weather, unknown performance parameters associated with each project, and other unforeseeable issues that tend to arise during any project. As of the date of this memorandum, this is how Homestake anticipates moving forward with the new initiatives. As such, these timelines and priorities are for planning purposes only and should not be construed as a promise or commitment on behalf of the company.

### ZEOLITE WATER TREATMENT PROJECT

- Begin mobilization and construction of new 1200 gpm Zeolite water treatment system during summer of 2014
  - \* *New Zeolite water treatment system will be placed on top of the Large Tailings Pile.*
- 2<sup>nd</sup> through early 4<sup>th</sup> quarter 2014: Build and construct 1200 gpm Zeolite water treatment system
- Early 4<sup>th</sup> quarter to late 4<sup>th</sup> quarter 2014: Test and commission 1200 gpm Zeolite water treatment system
- 4<sup>th</sup> quarter, 2014 – 1<sup>st</sup> quarter, 2015: Place new 1200 gpm Zeolite water treatment system into service

### UPGRADE OF REVERSE OSMOSIS WATER TREATMENT PLANT PROJECT

- 3<sup>rd</sup> quarter: Begin retrofitting and modification of existing Reverse Osmosis Water Treatment Plant with microfiltration pre-treatment system
- 4<sup>th</sup> quarter 2014: Test and commission 600 gpm microfiltration pretreatment system and integration with existing RO Water Treatment Plant.
- 4<sup>th</sup> quarter 2014: Complete retrofit and modification of existing 600 gpm RO Water Treatment Plant.
- Late 1<sup>st</sup> quarter– End of 3<sup>rd</sup> quarter 2015: Procure, install, and construct additional 600 gpm RO Water Treatment Train with dedicated microfiltration pretreatment system.
- 4<sup>th</sup> quarter 2015: Test and commission second (new) 600 gpm RO Water Treatment Train.
- 4<sup>th</sup> quarter 2015 – 1<sup>st</sup> quarter 2016: Place second 600 gpm RO Water Treatment Train into service; thus, bringing the total amount of water being treated via RO to 1200 gpm.



7 March 2014

The respective performances of these two major water remediation initiatives will be monitored closely by Homestake. Analysis of performance trends will determine whether or not additional water remediation strategies need to be implemented. If the Zeolite water treatment system and the RO Water Treatment Plant are determined to be insufficient to achieve Homestake's remediation goals, Homestake may implement one or more of the following additional remediation measures:

- Additional RO Water Treatment Capacity
- Additional cells to the existing Zeolite water treatment system
- An Electric-Coagulation (EC) water treatment system

Thank you for your time and attention. Should you have any questions, please feel free to contact me at one of the numbers listed below.

Regards,

**Jesse R. Toepfer**  
Closure Manager

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