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Certified Mail – 7099 3220 0002 1632 0011 Return Receipt Requested

March 16, 2001

Mr. Steve Ingle WDEQ/LQD Herschler Building 122 West 25th Street Cheyenne, WY 82002

RE: Corrective Action Report 7, West Evaporation Pond Leak Permit to Mine 633, License SUA-1548, Docket 40-8964

Dear Mr. Ingle:

On September 14, 2000, during a routine inspection, it was discovered that the west evaporation pond sump contained greater than 6 inches of water. The water level in the pond, four feet six inches at the time of the discovery, was immediately lowered in order to stop the leak. The sump water was analyzed for chloride, specific conductance, bicarbonate, U_{nat}, and sulfate with the results shown below:

Chemical	Concentration
Chloride	8,510 mg/l
Specific Conductance @ 25 °C	32.95 m Siemens
Bicarbonate	283.1 mg/l
	22.6 mg/l
Sulfate	7,429 mg/l

Upon receipt of the confirming analysis, both Steve Ingle of WDEQ and John Lusher of NRC were notified via telephone on September 22, 2000.

After patching the suspect locations, the water level was slowly raised beginning on October 30th. On November 6th, with the pond level at four feet six inches, the sump began collecting water. The water level of the pond was dropped to three feet eight inches in order to stop the leakage.

Add: John NMSSOI Lusher E-RIDS

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The pond did not leak again until January 6, 2001. A sample was taken on the same day with the following results:

Chemical	Concentration
Chloride	9,428 mg/l
Specific Conductance @ 25 °C	41.39 m Siemens
Bicarbonate	448 mg/l
U _{nat} as U ₃ O ₈	25.0 mg/l
Sulfate	11,212 mg/l

A weekly sample taken on January 19, 2001 contained 8,300 mg/l chloride and had a specific conductance of 22.22 m Siemens. The pond quite leaking on January 22nd without any change in the pond's water level and has not leaked since.

The water level in the sump rose above six inches (6") during this reporting period so a weakly sample was taken on 3/15/01; results shown below. The water level remains at 2' 11" so it appears that a leak has developed below this point. Additional repairs will be made to the liner as soon as the weather improves and the ice on the pond melts.

Chemical	Concentration
Chloride	2,740 mg/l
Specific Conductance @ 25 °C	13.98 m Siemens
Bicarbonate	472 mg/l
U _{nat} as U ₃ O ₈	6.5 mg/l
Sulfate	4,196 mg/l

Additional monthly reports will be submitted until correction of the situation is confirmed. If you have any questions or comments regarding the submittal, please fell free to contact me at (307) 358-3744, ext. 62.

Sincerely,

John W. Cash Manager EHS and Regulatory Affairs

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xc: Pat Drummond (RAMC - Smith Ranch Facility)
J. Lusher-U.S. NRC (Div. of Low Level Waste Mgt. & Dec.) Rockville, MD
Certified Mail -7099 3220 0002 1632 0028 , return receipt requested
B. Ferdinand (RAMC-Smith Ranch Facility)
M. Freeman (RAMC-OKC Office)
P. Goranson (RAMC-OKC Office)
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