



September 25, 2012

Mr. Andrew Persinko  
Division of waste Management & Environmental Protection  
Office of Federal & State Materials & Environmental Management Programs  
Mail Stop T-8F5  
U.S. Nuclear Regulatory Commission  
11545 Rockville, Maryland 20852-2738

Re: Docket No. 40-6622, License No. SUA-442

Dear Mr. Persinko:

Condition 22 of the referenced license requires the submittal of the results of effluent and environmental monitoring in accordance with 10 CFR 40.65. This is to advise you that no effluent or environmental monitoring was done during the first and second quarters of 2012 at the Shirley Basin tailings site, consistent with amendment number 52 to the license.

The ground water and surface water monitoring results for the first and second quarters of 2012 were submitted to the NRC under separate cover during September 14, 2012, pursuant to condition 47C of the license. Enclosed is the annual land use survey required by condition 21 of the license.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Mark Owens'.

R. Mark Owens  
General Manager

Encls.

cc: D. B. Spitzberg, U.S. NRC – Region IV

PATHFINDER MINES CORPORATION

935 PENDELL BLVD., P.O. BOX 730 MILLS, WYOMING 82644, U.S.A.  
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FSME20

Annual Land Use Survey  
2011-2012  
Pathfinder Mines Corporation  
Shirley Basin Mine  
Source Material License SUA-442

September 25, 2012

Pursuant to condition 21 of Source Material License SUA-442, a review of the land use status within five miles of the restricted area boundary was conducted. There were no significant changes in land use over the past year compared to what was described in the last survey report. Aside from the Heward Ranch noted below, there were no private residences within five miles of the site. To our knowledge, no new private or public potable water or agricultural wells were completed within five miles of the restricted area boundary. Activities at the Pathfinder site consisted of routine licensed 11e.(2) waste disposal in the tailings area, minor site maintenance such as road grading, minor repairs of mine reclamation, fence repairs, annual noxious weed spraying in the mine area, and ground water monitoring within both the restricted area and the adjacent mine area. Beginning August 29, 2011 a contractor commenced the installation of rock purchased late in 2011 in the channel adjacent to the main access road. The work was completed September 1, 2011.

The primary agricultural use of adjacent lands was cattle and sheep grazing. The Heward Ranch, some three miles southeast of the restricted area, continued to be the nearest agricultural residence. Grazing utilization did not change appreciably from the previous year. Wildlife such as pronghorn antelope, deer, elk, moose, sage grouse, and various non-game species continue to utilize the habitat available in the general area. No new nonresidential structures were built within the area of concern, and uses of existing structures did not change. There was no appreciable mineral claim staking activity in the general area on Federal land since most available areas of interest previously had been claimed. Limited recreational utilization of the public lands adjacent to the restricted area continued in the form of hunting, primarily during September-October. The Walker-Jenkins Pit, reclaimed by the Abandoned Mine Lands Program as a lake, remains open to public access for fishing. The lake is located south-southeast of the Pathfinder site.

The nearby Petrotomics tailings/mine site remains under the stewardship of the U.S. Department of Energy.