ARCADIS

Infrastructure, environment, facilities

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Dr. Tom McLaughlin, Decommissioning Branch
Division of Water Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
United States Nuclear Regulatory Commission
Washington DC 20555-0001

Subject:
Highland Mine Site, Wyoming

Date:
March 18, 2008

Contact:
Rebecca Lindeman, P.E.

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Our ref:
B0085721

Dear Tom:

A meeting (teleconference) with Exxon Mobil Corporation and the Nuclear Regulatory Commission (NRC) was held on February 19, 2008 to discuss Exxon's request for reduction in groundwater monitoring at their former mine site located in Converse County, Wyoming. During that meeting, you requested a letter discussing potential offsite migration of site-related chemicals as documentation prior to issuance of the License amendment. This letter is written by ARCADIS on behalf of ExxonMobil to fulfill your request for additional site information.

ExxonMobil installed additional wells in 2005 and 2006 to the southeast of the tailings dam to investigate potential offsite historical groundwater impacts. ExxonMobil is in the process of collecting sufficient data to evaluate seasonal fluctuations, and develop a conceptual site model of the hydrology and hydrogeology east of the tailings dam. Due to a shift in geology, the hydrogeology east of the tailings dam is significantly varied from, and more complex than the remainder of the site. During our call, NRC agreed this analysis should take place and ExxonMobil shall submit a report with chemical data and any findings from these well installations when the analysis is complete.

Site historical constituents are not a current source of offsite migration, as evidenced by ongoing groundwater sampling at the perimeter of the site. Site constituents are below action levels in groundwater at the eastern property line.

Please feel free to contact me or Dan Burnham (281.654.1984) should you have any questions or require additional information.

Sincerely,

ARCADIS

Rebecca Lindeman, P.E
Principal Civil Engineer

Copies:
Dave Roberson, DeMaximis
File