

## Bureau of Mining Regulation and Reclamation

### PERMIT LIMITATIONS FOR LEAK DETECTION SYSTEMS

The following flow rates from leak detection systems are used in all permits issued by the Bureau. All rates are daily averages in gallons per day for the time period noted.

<b>PERMIT LIMITATIONS FOR LEAK DETECTION SYSTEMS</b>		
	<b>Quarterly</b> (gpd)	<b>Annual</b> (gpd)
<b>DOUBLE-LINED PONDS</b>	150	50
<b>LEACH PADS and OTHER NON-IMPOUNDING SURFACES</b>		
Sub-base (k)		
1.0 X 10 <sup>-7</sup> cm/sec	150	50
1.0 X 10 <sup>-6</sup> cm/sec	75	25
1.0 X 10 <sup>-5</sup> cm/sec	20	10
<b>CONVEYANCE CHANNELS</b>		
Sub-base (k)		
1.0 X 10 <sup>-7</sup> cm/sec	150	50
1.0 X 10 <sup>-6</sup> cm/sec	45	15

Abbreviations:

gpd: gallons per day

k: coefficient of permeability

cm/sec: centimeters/second

In the event that permit limitations are exceeded, a site-specific evaluation must be conducted by the permittee to assess the need for additional process component or site monitoring. Depending upon site-specific conditions, the permittee may be required to institute a mitigation procedure(s) to bring the process component into compliance with the permit limitation. If it can be demonstrated that the permit violation will not result in degradation of waters of the State and the permittee complies with new monitoring levels and mitigation procedures, the Bureau may allow the continued use of the non-compliant process component. If a permit limitation for a leak detection system is exceeded, the Bureau does not intend to use the permit limitation as a means of halting beneficiation or assessing penalties, except in cases where the design criteria is no longer reasonably met, the permittee has been negligent, or the permittee is not responsive in taking proper corrective action.