

**Table 13-1. Preliminary Overall Water Balance**

	Water Inflow (Consumption)	
	<i>minimum</i> gpm	<i>maximum</i> gpm
<b>Inflows:</b>		
Pit 5		
Surface Water	240	240
Groundwater	1,110	1,110
Dewater <sup>1</sup>	0	0
Pits 1/2		
Surface Water	1,430	1,430
Groundwater <sup>2</sup>	700	2,570
Dewater <sup>3</sup>	0	0
Plant/Stockpile Runoff <sup>4</sup>	0	0
Butler Stage I Tailing Basin Runoff <sup>5</sup>	800	800
Seepage Return	600	600
<b>Consumption:</b>		
Plant Consumption	(2,763)	(2,763)
Tailings Void Loss	(1,300)	(1,300)
Tailings Basin Seepage	(600)	(600)
Tailings Basin Flushing <sup>6</sup>	(?)	(?)
Oxhide Creek Augmentation	(?)	(?)
O'Brien Creek Augmentation	(?)	(?)
Little Sucker Lake Augmentation <sup>7</sup>	(?)	(?)
McCarthy Lake Augmentation <sup>7</sup>	(?)	(?)
Snowball Lake Augmentation	(?)	(?)
<b>NET EXCESS (SHORTAGE)</b>	<b>217</b>	<b>2,087</b>

<sup>1</sup>Dewater for Pit 5 would be 430 gpm over 20 years, but is ignored due to unlikelihood of storing it.

<sup>2</sup>Groundwater contribution from Pits 1/2 increases with drawdown; maximum flow is achieved when it is fully dewatered.

<sup>3</sup>Dewater for Pits 1/2 is interdependent with groundwater inflow, and was assumed zero.

<sup>4</sup>The plant and stockpile occupy portions of the Pit 5, Little Sucker Lake, Little McCarthy Lake, and Snowball Lake watersheds. It is assumed that it will continue to drain to those subwatersheds. Approximately 164 acres of the plant/stockpile area is included in the Pit 5 watershed.

<sup>5</sup>Assumes Expanded Stage I Tailings Basin (2,586 acres)

<sup>6</sup>Tailing basin flushing rates and volumes have not been determined

<sup>7</sup>Augmentation flows for McCarthy and Little Snowball Lakes have not been determined.