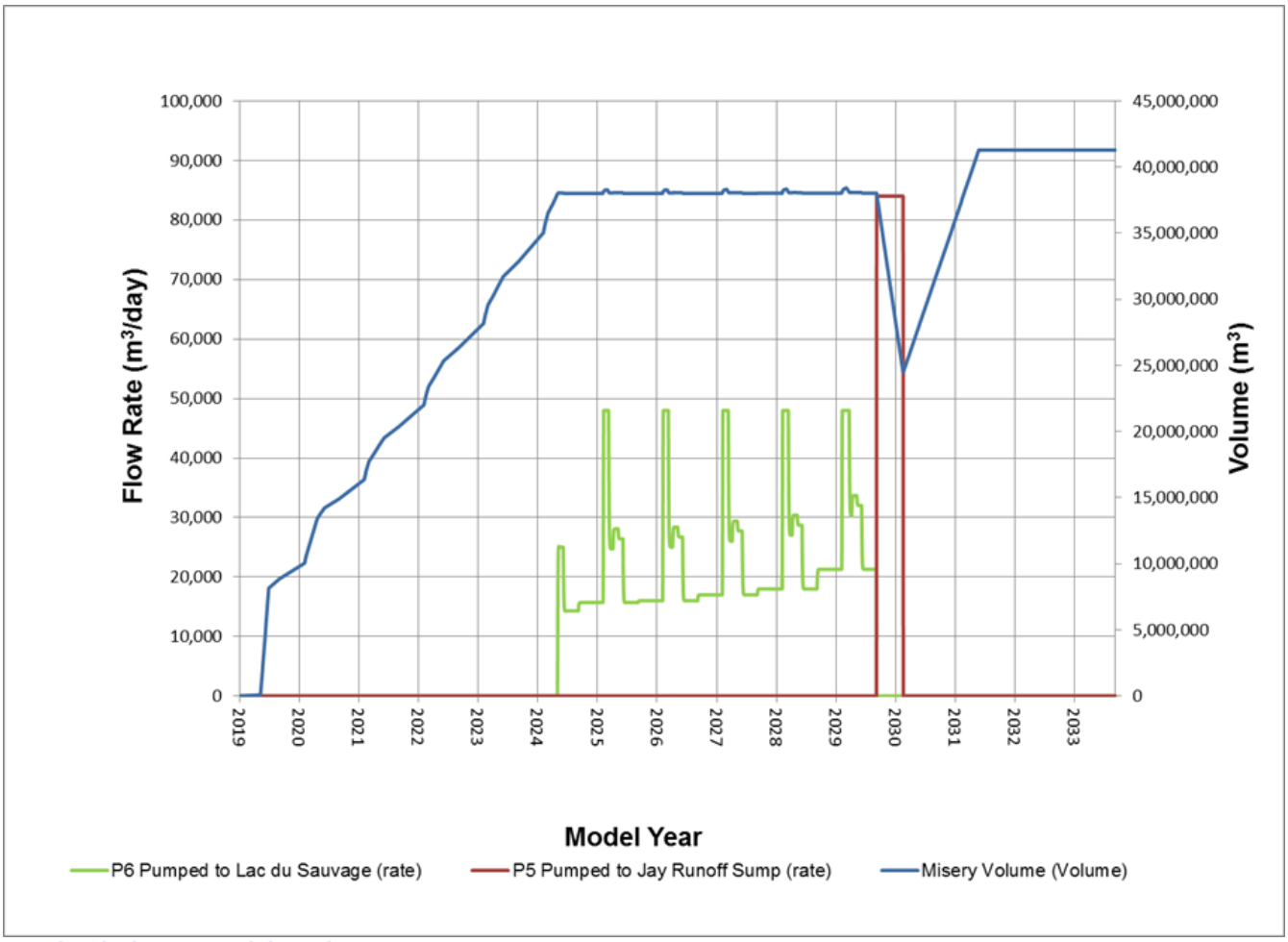
Homework #20

Response to questions regarding Water Management Plan Figures 6-3 and 6-6.

Figure 6-3: There appears to be a discrepancy in the figure, as the duration of the drawdown of Misery Pit in 2029 and 2030 [series "Misery Volume (Volume)] does not correspond to the duration of the pumping to Jay Sump [series "P5 Pumped to Jay Runoff Sump (rate)"].

Response: Misery Pit was modeled in layers, and this figure only shows the pumping from the first layer of three. The corrected figure is shown below. ***The water balance considered pumping from all three layers; the only error is in the figure.***

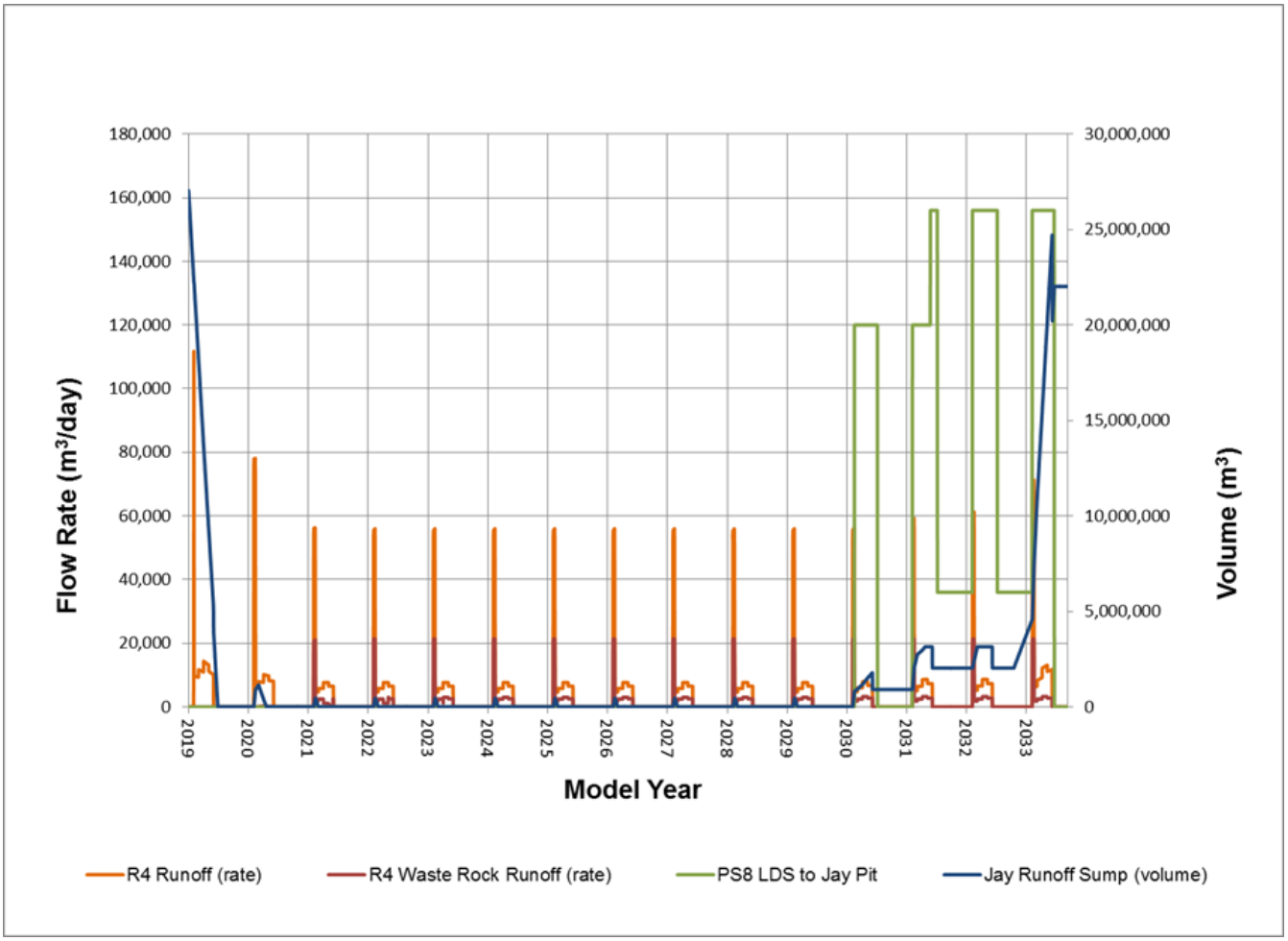


Revised Figure 6-3 (above)

Figure 6-6: A similar discrepancy was identified in this figure, because Jay Pit volumes continue to rise after pumping from Misery Pit stops.

Response: The pumping rate and duration [series "P5 Pumped to Jay Runoff Sump (rate)"] in the corrected Figure 6-3 is also shown Figure 6-6 [series "P5 Pump from Misery (rate)"]. The reason that the Jay Pit volume keeps rising, after pumping from Misery Pit stops, is that at that time (early 2030) refilling from Lac du Sauvage begins. Pumping from Lac du Sauvage is not shown in Figure 6-6.

Figure 6-4: In the review of these figures, the modeler noticed that Figure 6-4 did not show the first three years of pumping from Lac du Sauvage. The updated figure is shown below. ***The water balance considered the entire pumping period; the only error is in the figure.***



Revised Figure 6-4 (above)