

TABLE A9-1: WATER STORAGE POND WATER BALANCE

Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mine Water L/s													
Mine Drainage	50	50	50	50	50	50	50	50	50	50	50	50	50.0
To Treatment	40.95	40.95	40.95	40.95	40.95	40.95	40.95	40.95	40.95	40.95	40.95	40.95	40.95
To Cell B	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.1
Mill Water L/s													
Process Feed	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.7
Losses to solids	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.1
Effluent	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.56	20.6
Effluent to Treatment				2	20	20	20	20	19	7	3	2	9.4
Effluent to Cell A	20.56	20.56	20.56	18.56	0.56	0.56	0.56	0.56	1.56	13.56	17.56	18.56	11.1

Inflows (m ³)													
	Cell A												
Mill Effluent	55,068	49,739	55,068	48,108	1,500	1,452	1,500	1,500	4,044	36,319	45,516	49,711	349,523
Precipitation	1,229	1,229	1,092	1,365	2,184	3,140	4,642	3,823	3,140	2,594	1,638	1,229	27,305
Total	56,297	50,967	56,160	49,473	3,684	4,592	6,142	5,323	7,184	38,913	47,154	50,940	376,828

Outflows (m³)													
Evaporation	0	0	0	0	1,075	4,096	5,461	4,096	2,731	0	0	0	17,458
Spill to Cell B	56,297	50,967	56,160	49,473	2,609	496	681	1,227	4,453	38,913	47,154	50,940	359,370

Inflows (m ³)	Cell B												
Spill from Cell A	56,297	50,967	56,160	49,473	2,609	496	681	1,227	4,453	38,913	47,154	50,940	359,370
Mine Drainage	24,240	21,894	24,240	23,458	24,240	23,458	24,240	24,240	23,458	24,240	23,458	24,240	285,401
Sewage Water	1,004	907	1,004	972	1,004	972	1,004	1,004	972	1,004	972	1,004	11,826
Waste Rock Pile	0	0	0	0	6,756	2,045	3,023	2,489	2,045	0	0	0	16,358
Stockpiles	0	0	0	0	319	96	142	117	96	0	0	0	771
Precipitation	1,229	1,229	1,092	1,365	2,184	3,140	4,642	3,823	3,140	2,594	1,638	1,229	27,305
Total	82,769	74,997	82,496	75,268	37,113	30,207	33,732	32,900	34,164	66,751	73,222	77,412	701,030

Outflows (m³)													
Mill Process Feed	58,041	52,424	58,041	56,169	58,041	56,169	58,041	58,041	56,169	58,041	56,169	58,041	683,385
Evaporation	0	0	0	0	1,075	4,096	5,461	4,096	2,731	0	0	0	17,458
Total	58,041	52,424	58,041	56,169	59,116	60,264	63,502	62,137	58,899	58,041	56,169	58,041	700,843
Difference (m³)	24,728	22,573	24,455	19,099	-22,003	-30,058	-29,770	-29,237	-24,735	8,710	17,053	19,372	187
Cum. Diff. (m³)	24,728	47,301	71,757	90,856	68,852	38,795	9,024	-20,212	-44,948	-36,238	-19,185	187	

Area of Cells A&B= 53,750 m²

Volume of Cells A&B= 225,000 m³

Rock pile area 50,000 m²

Stockpiles area	1,650 m ²
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PC Precip mm	22.9	22.9	20.3	25.4	40.6	58.4	86.4	71.1	58.4	48.3	30.5	22.9	508.0
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PC Evap mm	0	0	0	0	20.0	76.2	101.6	76.2	50.8	0	0	0	324.8
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Sewage L/day	32,400
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