

Table 55
Nkamouna Environmental and Social Impact Assessment
Alternative Analysis Summary

Criteria	Criteria Weighting Factor	No Action		Extraction Alternatives		Tailings Disposal Alternatives		Primary Power Generation Alternatives						Reclamation Alternatives				Water Supply Alternatives							
		Rank	Weighted Rank	Agitation Leach		Heap Leach		Mine Pit Tailings Backfill		Conventional Tailings Storage Facility		Diesel Power Generation		Combined Heat and Power Generation (Wood Fueled)		Hydropower Generation		Forest/Wildlife Habitat		Agricultural Production		Well Field		Well Field Plus Water from Tailings Impoundment	
				Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank	Rank	Weighted Rank
Overall protection of human health and the environment	4	3	12	2	8	3	12	2	8	1	4	2	8	2	8	2	8	1	4	1	4	2	8	2	8
Compliance with World Bank Guidelines	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	2	8	1	4	1	4	1	4	1	4
Climate	4	1	4	1	4	2	8	2	8	2	8	2	8	2	8	1	4	1	4	1	4	1	4	1	4
Air Quality	3	1	3	1	3	1	3	2	6	2	6	2	6	2	6	1	3	1	3	1	3	1	3	1	3
Surface Water Resources	3	1	3	1	3	2	6	3	9	2	6	1	3	1	3	2	6	1	3	1	3	2	3	1	3
Groundwater Resources	3	1	3	2	6	3	9	2	6	2	6	1	3	1	3	1	3	1	3	1	3	3	9	2	6
Flora	2	1	2	1	2	2	4	2	4	2	4	1	2	2	4	1	2	1	2	2	4	1	2	2	4
Fauna	2	1	2	1	2	1	2	2	4	2	4	1	2	1	2	1	2	1	2	2	4	1	2	2	4
Constructability	2	1	2	1	2	2	4	3	6	1	2	1	2	2	4	4	8	1	2	1	2	1	2	1	2
Cost / Economics	2	1	2	2	4	3	6	3	6	2	4	4	8	1	2	4	8	1	2	1	2	1	2	2	4
TOTAL WEIGHTED RANK			37		38		58		61		48		46		44		52		29		33		39		42

Notes:

- Descriptions of the Alternative Options are presented in Section 8.0
- Criteria weighting factors: 1 = considered as not significant; 2 = considered as moderately important; 3 = considered very important, and 4 = considered as critical.
- Option Ranking: 1 = indicates the option meets or exceeds the criteria; 2 = indicates the option slightly compromises the criteria; 3 = indicates significant compromise of the criteria, and 4 = indicates the option does not meet the criteria.
- Cost ranked by highest = 4, medium = 3, moderate = 2, lowest = 1.
- Energy requirements are 80% steam and 20% electricity; diesel and hydropower are not practical for producing steam
- Fresh water and recycled water are parts of an integrated system
- *Lowest score indicates the most favorable option.*