

Table 4.2: Comparison matrix for the Swedish setting

Criteria	0 alternative: Connection to Himmer- fjärden wastewater treatment plant	Filter bed for mixed wastewater: Semi- collective	Dry urine- diversion with greywater treatment in compact filter	Double- flush urine diversion with treatment of faeces and greywater in filter bed: Single home	Blackwater collection with centralized sanitization and treatment of greywater in a compact filter
Each rated as ++, +, 0, - or -- compared to the 0 alternative					
Health					
Risk of infection: household	Low	0	-	0	0
Risk of infection: immediate environment	Low	0	++	0	0
Risk of infection: downstream	Low to Medium	0	++	0	+
Environment					
Discharge: BOD, mg/L	6.7	0	+	0	+
Discharge : N,P, mg/L	4.1; 0.31	0	+(N), -(P)	+	+(N),-(P)
Potential for reuse of water	Low ¹	+	++	+	+
Potential for reuse of nutrients	Low ²	0	++	+	+
Water use	High	0	++	+	+
Quality of recycled product	Medium to low	+	++	+	+
Economy					
Investment costs Individual (I) and Societal (S)	\$26,000/0	0 (I) 0 (S)	++ (I) 0 (S)	-(+) (I) 0 (S)	++(0) (I) -(0) (S)
O&M costs Individual (I) and Societal (S)	\$550 per year/0	++ (I) 0 (S)	+(I) 0 (S)	+(I) 0 (S)	+(0) (I) -(0) (S)
Socio-cultural					
Convenience	High	0	--	-	0
Safety	High	0	0	0	0
Appropriateness to local context	High	+	-	0	0
Technical function					
System robustness	Medium	+	++	+	0
Odour	Low	0	0	0	0
Complexity of construction and O&M Individual (I) and Societal (S)	Low (I) High (S)	-(I) 0 (S)	-(I) -(S)	-(I) -(S)	0(-) (I) -(S)

(1) The water used within the area is mainly groundwater. This will be conveyed to Himmerfjärden WWTP, which is located south-east of Sandviken and discharged into the Baltic Sea.