Appendix I

Equation (1)	D	=	N	* (6.6 x 10^{-9}), where:
		D	=	liner thickness (ft), not to exceed 5 feet.
		N	=	time (seconds), calculated in procedure (3)
Equation (2)	Т	=	D/.	AK, where:
		Т	=	time (seconds)
		D	=	thickness of geologic stratum (cm)
		K	=	hydraulic conductivity of geologic stratum (cm/sec)
		A	=	constant determined by type of geologic stratum where:
				A = 2.0 for clay $A = 2.5 for silt$ $A = 3.5 for sand or gravel$ $A = 5.0 for fractured bedrock$ $A = the inverse of the peresity of the non-fractured bedrock$

A = the inverse of the porosity of the non-fractured bedrock material

Procedure:

- (1) Calculate T for each geologic stratum that is to be present between the uppermost aquifer system and the base of the recompacted soil liner using equation (2).
- (2) The values for T calculated in procedure (1) shall be summed to yield T for the entire section between the uppermost aquifer system and the base of the recompacted soil liner.
- (3) Subtract T from 7.9×10^8 seconds to get N (seconds).
- (4) Insert N into equation (1) to determine required liner thickness.