

Appendix 15

Risk of Impact of Pollution from Groundwater from Routine Runoff

Matrix to Determine Risk of Impact of Pollution to Groundwater from Routine Runoff

Component Number (see text)		Weighting Factor (See text)	Property or Parameter	Low Risk (Score 1)	Medium Risk (Score 2)	High Risk (Score 3)	Component Score	
1	Source	15	Traffic Density	<15,000 AADT	15,000 - 50,000 AADT	>50,000 AADT	15	
2		15	Rainfall Volume (Annual Averages)	<740mm Rainfall	740 - 1060mm	>1060m Rainfall	30	
			Rainfall Intensity	Even (<35 FEH 1 Hour Rainfall)	Uneven (35-47mm FEH 1 Hour Rainfall)	Concentrated (>47mm FEH 1 Hour Rainfall)		
3	Pathway	15	Soakaway Geometry	Continuous Linear (e.g. ditch, grassed channel)	Single Point, or Shallow Soakaway (e.g. Lagoon) serving Low Area Road	Single Point, Deep Serving High Road Area (>5,000m ²)	15	
4		20	Unsaturated Zone	Depth to Water Table >15m and Non-Aquifers	Depth to Water Table <15>5m	Depth to Water Table <5m	60	
5		20	Flow Type	Unconsolidated or Non-Fractured Consolidated Deposits (i.e. Dominantly Intergranular Flow)	Consolidated Deposits (i.e. Mixed Fracture and Intergranular Flow)	Heavily Consolidated Sedimentary Deposits, Igneous and Metamorphic rocks (Dominated by Fracture Porosity)	40	
6		7.5	Effective Grain Size	Fine Sand and Below	Coarse Sand	Very Coarse Sand and Above	22.5	
7		7.5	Lithology	>15% Clay Minerals	<5% - >1% Clay Minerals	<1% Clay Minerals	7.5	
							190	

AADT = Annual Average Daily Traffic (Two Way)

From Volume 11, Section 3, Part 10 of HA 216/06