Table 1: Environmental Risk Assessment Scoring Matrix

Likelihood			
Rare 1	Seldom 2	Often 3	Almost Certain 4

Severity	Risk Level = Severity x Likelihood x Detectability				Detectability
Negligible 1	Negligible 1	Trivial 2	Trivial 3	Trivial 4	Always 1
Minor 2	Trivial 4	Tolerable 8	Moderate 12	Moderate 16	Often 2
Moderate 3	Tolerable 9	Moderate 18	Substantial 27	Substantial 36	Seldom 3
Major 4	Moderate 16	Substantial 32	Intolerable 48	Intolerable 64	Almost Never 4

EVALUATION CRITERIA FOR ENVIRONMENTAL RISK ASSESSMENT

Table 2: Guidelines for Risk Control Action

The Risk Score	Risk Level	Effect	Action and Time Scale
1	Negligible	• Temporary effect involving non-toxic / harmful / hazardous pollutants, insignificant resource depletion, etc.	No additional risk controls are required. Monitoring required to ensure that controls are maintained.
2-4	Trivial		
8-9	Tolerable	• Minor effect involving slightly toxic / harmful / hazardous pollutants, short term controlled pollution, resource conservation evident, etc.	No additional risk controls are required. Monitoring required to ensure that controls are maintained. Where tolerable risk is associated with extremely harmful consequences, further assessment may be necessary to establish more precisely the likelihood of harm as a basis for determining the need for improved control measures.
12-18	Moderate	• Moderate effect involving toxic / harmful / hazardous pollutants, short term widespread pollution, inconsistent/ insufficient resource conservation, etc.	Need to eliminate or reduce the risk by using allocated additional risk control measures. Efforts should be made to reduce the risk but the cost of prevention should be carefully measured and limited. Risk reduction measure should be implemented within a 6 months period.
27-32	Substantial		Need to eliminate or reduce the risk by using allocated additional risk control measures. Efforts should be made to reduce the risk and considerable resources may be allocated to reduce the risk. Risk reduction measure should be implemented within a 3 months period.
48-64	Intolerable	• Major effect involving highly toxic / harmful / hazardous pollutants, long term widespread pollution with impact on ecosystem, insignificant resource conservation, etc.	Immediate action needed to eliminate or reduce the risk by using allocated additional risk control measures. Work should not be started or continued until the risk has been eliminated or reduced. If it is not possible to reduce risk even with unlimited resources, work has to be prohibited.