

S14 – Lagoon Appraisal Form H&SGEO06

Name/no./grid reference Site Date

	Tick as appropriate	Action required	Date for completion
Is the lagoon existing or proposed?	Existing <input type="radio"/> Proposed <input type="radio"/>
Has the HSE been notified?	Yes <input type="radio"/> No <input type="radio"/>
Is there a design in place?	Yes <input type="radio"/> No <input type="radio"/>
Is an inspection form and site appraisal plan attached to this report?	Yes <input type="radio"/> No <input type="radio"/>

Are there any voids beneath the lagoon?	Mines <input type="radio"/>	Natural caves & fissures <input type="radio"/>	Not known <input type="radio"/>	Unlikely <input type="radio"/>
What is/will the lagoon be founded on?	Soil <input type="radio"/>	Peat <input type="radio"/>	Clay <input type="radio"/>	Silt <input type="radio"/>
	Sand <input type="radio"/>	Gravel <input type="radio"/>	Rock <input type="radio"/>	Made-up ground <input type="radio"/>
	Not known <input type="radio"/>	Other		
The soils beneath the lagoon were/will be?	Stripped <input type="radio"/>	Not stripped <input type="radio"/>	Not known <input type="radio"/>	
What internal foundation drainage measures are/will be in place?	Drainage blanket <input type="radio"/>	Strip drains <input type="radio"/>	None <input type="radio"/>	Not known <input type="radio"/>
	Other			
What is/will be the gradient of the bund foundation (before construction)?	Horizontal <input type="radio"/>	Gently inclined <input type="radio"/>	Greater than 1 in 12 <input type="radio"/>	



What is/will be the nature of the retained bund material(s)?	Silt	<input type="radio"/>	Soil	<input type="radio"/>	Clay	<input type="radio"/>	Sand	<input type="radio"/>
	Rock	<input type="radio"/>	Made-up ground	<input type="radio"/>	Gravel	<input type="radio"/>	Not applicable	<input type="radio"/>
	Not known	<input type="radio"/>	Other					
What is/will be the nature of the lagoon content?	Water	<input type="radio"/>	Silt	<input type="radio"/>	Sludge	<input type="radio"/>		
	Other							
The retaining bund was/will be?	End tipped	<input type="radio"/>	Layer placed	<input type="radio"/>	Compacted	<input type="radio"/>	Not known	<input type="radio"/>
The adjacent land is drained by?	Surface ditches	<input type="radio"/>	Perimeter ditches	<input type="radio"/>	Cut-off ditches	<input type="radio"/>	None	<input type="radio"/>
	Other							
The retaining bund outer slopes are/will be?	Steeper than 1 in 1.5	<input type="radio"/>	Less than 1 in 3	<input type="radio"/>	Inbetween	<input type="radio"/>	Not applicable	<input type="radio"/>
The surface of the retaining bund is/will be covered by?	Grass	<input type="radio"/>	Brush/scrub	<input type="radio"/>	Trees	<input type="radio"/>	Bare	<input type="radio"/>
The contents of the lagoon are/will be more than 4m above the level of any land which is within 50m of its perimeter?	Yes	<input type="radio"/>	No	<input type="radio"/>				
The contents of the lagoon will be?	0–5,000m ³	<input type="radio"/>	5,000–10,000m ³	<input type="radio"/>	>10,000m ³	<input type="radio"/>		
Has the lagoon failed previously or is there evidence that it may be unstable?	Yes	<input type="radio"/>	No	<input type="radio"/>	Unknown	<input type="radio"/>	Not applicable	<input type="radio"/>
If the lagoon failed, what kind of failure would occur?	Mud flow	<input type="radio"/>	Piping	<input type="radio"/>	Overtopping	<input type="radio"/>	Circular failure	<input type="radio"/>
	Foundation failure	<input type="radio"/>	Toe heave/bulge	<input type="radio"/>	Inadequate overflow	<input type="radio"/>	Burrowing animals	<input type="radio"/>
	Tree root penetration	<input type="radio"/>	Surface erosion	<input type="radio"/>				
How large could the failure be?	<100m ³	<input type="radio"/>	100–1,000m ³	<input type="radio"/>	>1,000m ³	<input type="radio"/>		



If the tip moved, would be failed mass be likely to endanger?

Dwellings	<input type="radio"/>	Places of work on site	<input type="radio"/>	Places of work off site	<input type="radio"/>
Highways/railways/canals	<input type="radio"/>	Footpaths/bridleways/public amenities	<input type="radio"/>		<input type="radio"/>
Water courses	<input type="radio"/>	Overhead services	<input type="radio"/>	Buried services	<input type="radio"/>

Highlight on the appraisal plan the likely direction and extent of any failure and those structures at risk

Could anybody be seriously injured or killed? **Likely** Unlikely

Note: The tip will be a significant hazard if a tick was placed against any of the red choices above

It is therefore concluded that the tip is/will be? **A significant hazard** Not a significant hazard

Comments

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Signature of competent person carrying out inspection

Date

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Countersignature by geotechnical specialist

Date

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Date of next appraisal

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