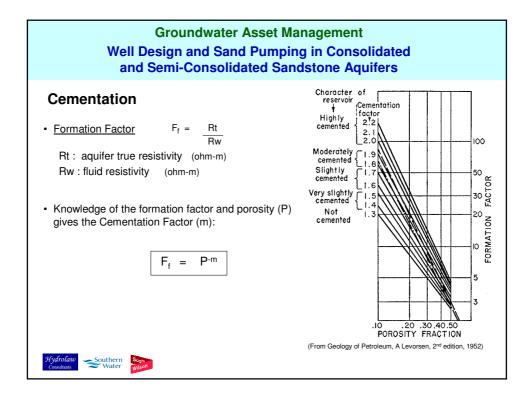
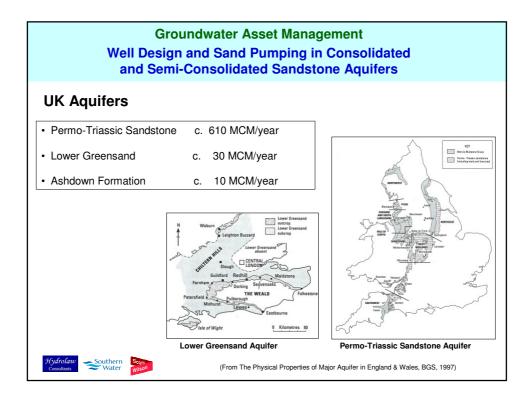
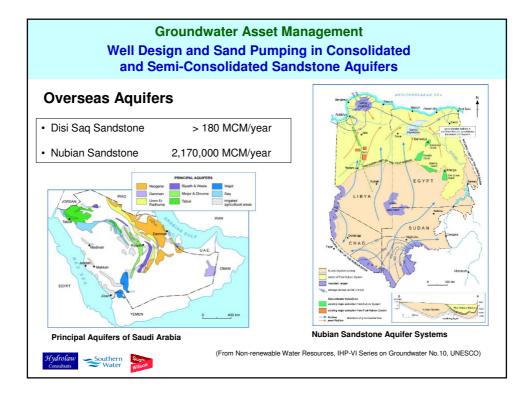


Groundwater Asset Management Well Design and Sand Pumping in Consolidated and Semi-Consolidated Sandstone Aquifers	
Based on Borehole Stability	
 <u>Unconsolidated</u>: 	Borehole collapses if unsupported.
	Ex: Alluvial sand and gravels; Very friable sandstone.
<u>Semi-Consolidated</u> :	Borehole or part of the borehole collapses soon after drilling (less than a few days).
	Ex: Poorly cemented and/or friable sandstone.
<u>Consolidated</u> :	Borehole stays open without support for long periods (often years).
	Ex: Well cemented sandstone.
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Groundwater Asset Management Well Design and Sand Pumping in Consolidated and Semi-Consolidated Sandstone Aquifers		
Sand Content and Turbidity Criteria		
Sand Content (from US EPA and NWWA, 1975)		
Food Processing and Beverages: 1 mg/l Public Supply / Industry: 5 mg/l		
Sprinkler, Cooling: 10 mg/l		
Flood, Irrigation: 15 mg/l		
Turbidity (Water Supply (Water Quality) Regulations, 2000)		
Consumers Tap: 4 NTU		
Treatment Works: 1 NTU		
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