



INDEX AND EXPLANATION

1. Aquifers in which intergranular flow is significant

	a. Highly productive aquifers (not extensive)
	p Permian at Thornhill
	d ₁ Upper Old Red Sandstone in Fife
	b. Locally important aquifers
	q [*] Recent: Blown sand
	q Quaternary sands and gravels
	p Permian in North West Grampian

2. Aquifers in which flow is dominantly in fissures and other discontinuities

	a. Highly productive aquifers (not extensive)
	p Permian
	h ₁ Carboniferous: Dinantian and Namurian
	d ₁ Upper Old Red Sandstone
	b. Locally important aquifers
	t+p Triassic and Permian
	h ₂ Carboniferous: Westphalian
	d ₁₊₂ Lower and Middle Old Red Sandstone

3. Concealed aquifers, aquifers of limited potential, regions without significant groundwater

	a. Concealed aquifers; aquifers with limited or local potential
	q Quaternary: coastal and river alluvium
	J Jurassic
	p Permian at Stranraer
	cb+pr Cambro-Ordovician and Precambrian Limestones
	b. Regions underlain by impermeable rocks, generally without groundwater except at shallow depth
	s+o Silurian and Ordovician
	pr Precambrian
	v Extrusive rocks
	i Intrusive rocks

Surface water features

- Perennial river or stream
- Perennial river or stream in which the chloride ion concentration is known to exceed 1000 mg/l under low flow conditions
- Stream gauging station with mean annual runoff in m³/s, over catchment area in km²
- Hydrometric area boundary
- Freshwater loch, reservoir or standing water
- Loch or standing water in which the chloride ion concentration is known to exceed 1000 mg/l

Groundwater features

- Recognised mineral water spring or borehole with less than 1000 mg/l total dissolved solids.
- Spa water spring or well with greater than 1000 mg/l total dissolved solids
- Areas where the chloride ion concentration exceeds 1000 mg/l above -80 m O.D.

Sources of known abstraction (licences are not required):

a) 10-19 l/s	b) 20-29 l/s	c) >29 l/s	normal discharge or pumping yield
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Artificial works

- Impounding reservoir with design yield ≥ 10 MI/d (figures in MI/d)
- Canal
- Hydroelectric station

Geological symbols

- Geological boundary
- Geological boundary beneath cover
- Fault
- Contours on the surface of the Old Red Sandstone in m relative to O.D.

Key

- Planning Boundary
- Planning Boundary 500 m Buffer
- Aquifer In Which Flow Is Virtually All Through Fractures and Other Discontinuities**
- 2B - Moderately Productive Aquifer
- 2C - Low Productivity Aquifer

Loch Kemp Storage EIA Report

Figure 14.6 Regional Hydrogeology

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