



**INDEX AND EXPLANATION**

**1. Aquifers in which intergranular flow is significant**

- a. Highly productive aquifers (not extensive)
  - p Permian at Thornhill
  - d<sub>1</sub> Upper Old Red Sandstone in Fife

**b. Locally important aquifers**

- q'g 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<sub>1</sub> Carboniferous: Dinantian and Namurian
  - d<sub>1</sub> Upper Old Red Sandstone

**b. Locally important aquifers**

- t+p Triassic and Permian
- h<sub>1</sub> Carboniferous: Westphalian
- d<sub>12</sub> 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**

- q+o Silurian and Ordovician
- pr Precambrian
- v Extrusive rocks
- g 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 m<sup>3</sup>/s, over catchment area in km<sup>2</sup>
- 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 } normal discharge or pumping yield
- b) 20-29 l/s }
- c) > 29 l/s }

- a) b) c) Springs
- Springs used for public supply
- Wells and boreholes
- Sources of public supply
- Artesian boreholes
- Artesian boreholes used for public supply
- River or loch intake for public supply with ≥ 10 Ml/d capacity

**Artificial works**

- Impounding reservoir with design yield ≥ 10 Ml/d (figures in Ml/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.



**KILLEAN WIND FARM  
EIA REPORT**

**FIGURE 9.6**

**REGIONAL  
HYDROGEOLOGY**

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- Site Boundary
- Site Boundary 500 m Buffer
- Aquifer Classification**
- Low Productivity Aquifer



LAYOUT DWG XXXXXDXXXX-XX T-LAYOUT NO. PSCOkIn049

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**ENVIRONMENTAL IMPACT ASSESSMENT  
REPORT 2024**

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