



Legend

Site Boundary

Aquifer Classification on

Moderately Productive Aquifer

Low Productivity Aquifer

INDEX AND EXPLANATION

1. Aquifers in which intergranular flow is significant

a. Highly productive aquifers (not extensive)

Permian at Thornhill

Upper Old Red Sandstone in Fife

b. Locally important aquifers

Recent: Blown sand

Quaternary sands and gravels

Permian in North West Grampian

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

a. Highly productive aquifers (not extensive)

Permian

Carboniferous: Dinantian and Namurian

Upper Old Red Sandstone

b. Locally important aquifers

Triassic and Permian

Carboniferous: Westphalian

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

Quaternary: coastal and river alluvium

Jurassic

Permian at Stranraer

Cambro-Ordovician and Precambrian Limestones

b. Regions underlain by impermeable rocks, generally without groundwater except at shallow depth

Silurian and Ordovician

Precambrian

Extrusive rocks

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 } normal discharge
b) 20-29 l/s } or pumping yield
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.

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HAGSHAW ENERGY CLUSTER WESTERN EXPANSION

3R Energy

SLR

Hagshaw Energy Cluster - Western Expansion Phase 1 EIA Report

Figure 8.7 Hydrogeology

Date: 31/03/2025 Drawn by: DB Checked by: JC Version: V1