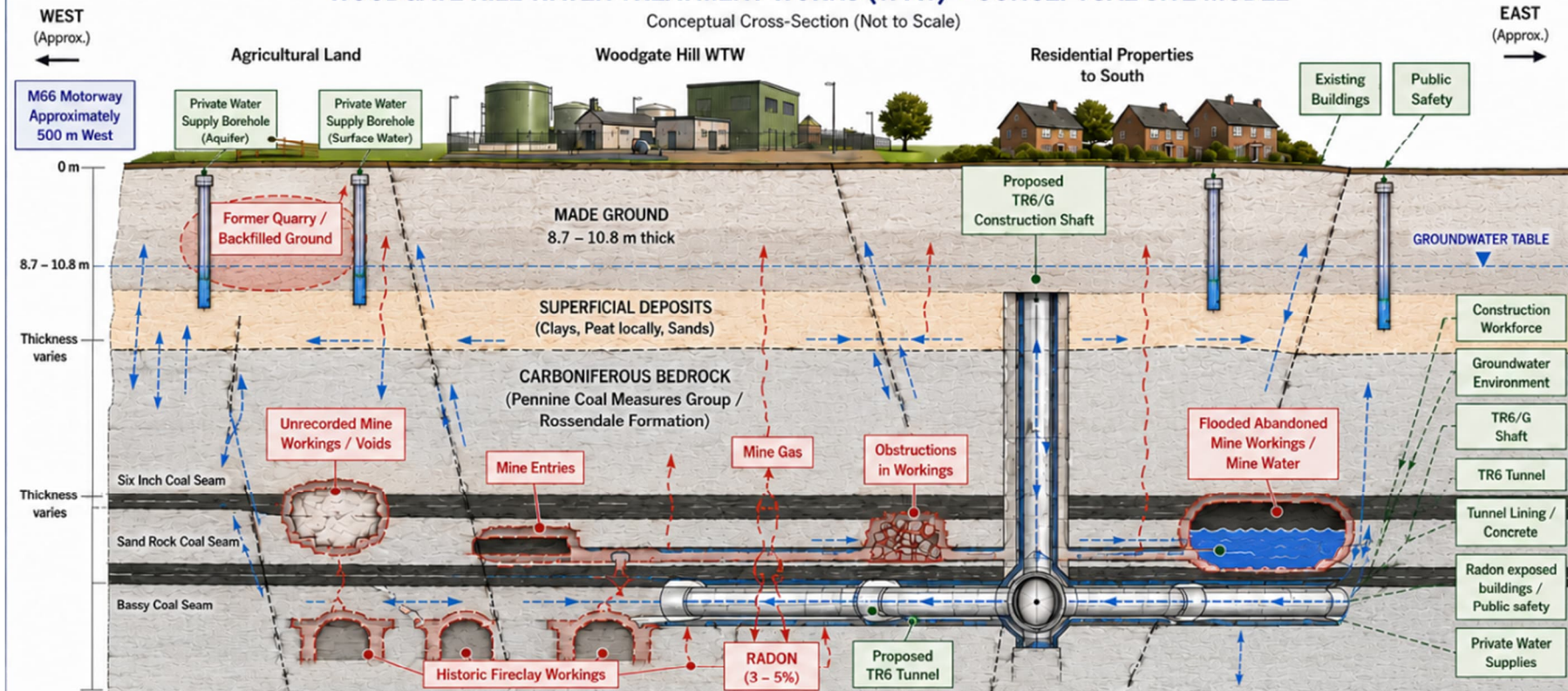


WOODGATE HILL WATER TREATMENT WORKS (WTW) – CONCEPTUAL SITE MODEL



LEGEND

Red = Sources Blue Arrows = Pathways Green = Receptors Grey = Geological Units Blue Line = Groundwater = Geological Fault

SOURCES

- Unrecorded mine workings and voids (15–20%)
- Mine entries (10–15%)
- Mine gas (15–20%)
- Contaminated mine water (10–15%)
- Obstructions within workings (10–15%)
- Former quarry/backfilled ground (10–15%)
- Radon (3–5%)

PATHWAYS

- Tunnel/shaft interception
- Geological faults and fractures (gas and radon migration)
- Groundwater flow through workings and fractures
- Migration through made ground and superficial deposits
- Ground movement/subsidence
- Radon migration through permeable strata, fractures, made ground and into structures

RECEPTORS

- Proposed TR6 tunnel
- Proposed TR6/G shaft
- Construction workers
- Existing buildings (radon exposure)
- Groundwater environment
- Tunnel lining / concrete
- Public safety (including radon in buildings and ground gas)
- Private Water Supplies (aquifer or surface water abstraction)

Note: This Conceptual Site Model is based on current information and is subject to change as more data becomes available.