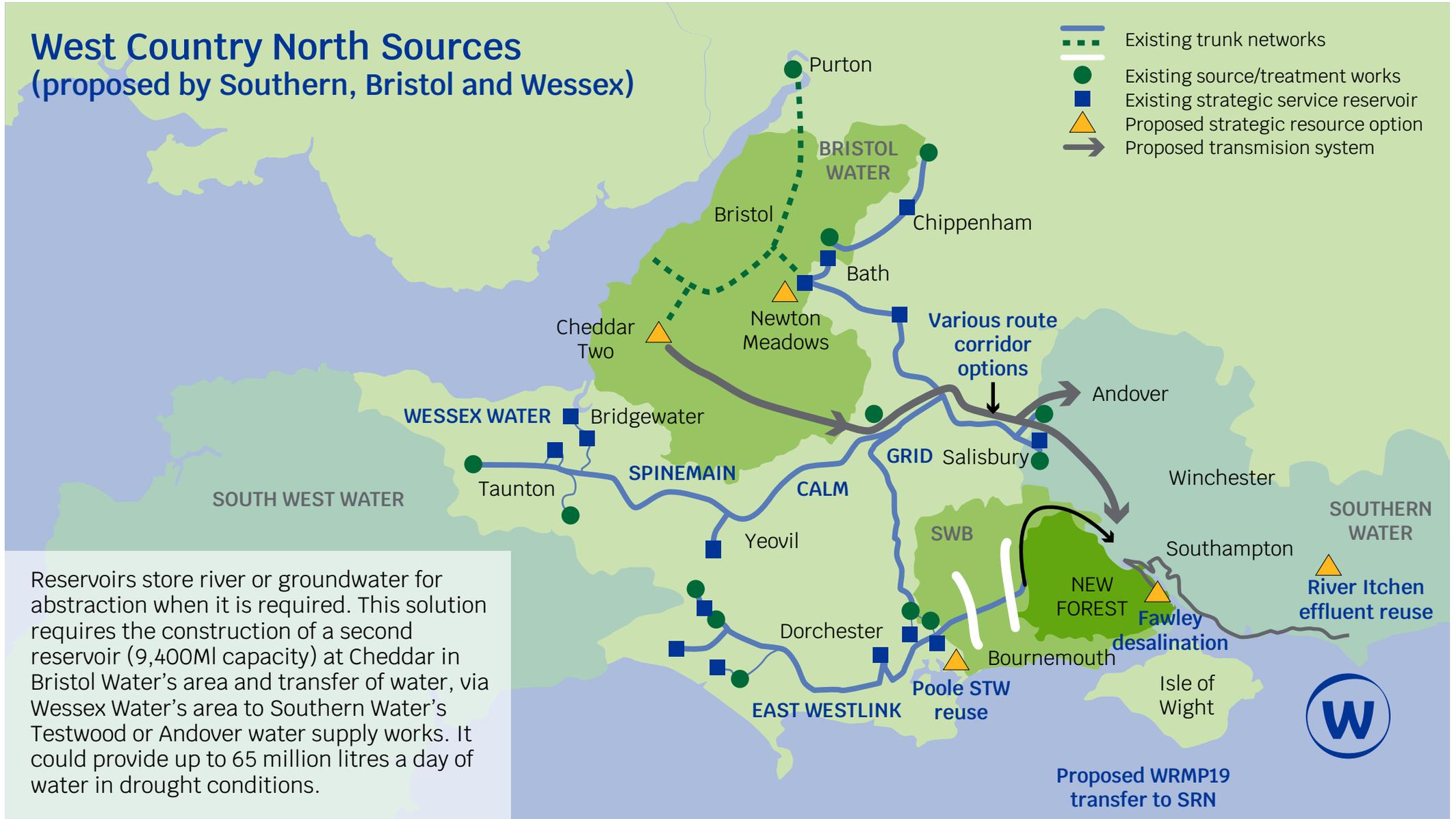


West Country North Sources (proposed by Southern, Bristol and Wessex)

-  Existing trunk networks
-  Existing source/treatment works
-  Existing strategic service reservoir
-  Existing strategic service reservoir
-  Proposed strategic resource option
-  Proposed transmission system



Reservoirs store river or groundwater for abstraction when it is required. This solution requires the construction of a second reservoir (9,400Ml capacity) at Cheddar in Bristol Water's area and transfer of water, via Wessex Water's area to Southern Water's Testwood or Andover water supply works. It could provide up to 65 million litres a day of water in drought conditions.

Proposed WRMP19
transfer to SRN



Desalination (proposed by Southern Water)

This involves removing dissolved salts from sea or brackish water, making use of high pressure membranes to treat the water. It requires construction of a submerged offshore seawater abstraction, the main desalination plant, waste discharge, and transfer to the current Testwood water supply works or an industrial user. It could provide up to 75 million litres a day of water in drought conditions.



Water recycling (proposed by Southern Water)

Otterbourne
WSW

Lower Itchen
to Otterbourne
WSW
(B1)

Lower Itchen
abstraction

WRP to
Otterbourne WSW
(B3)

WRP to Otterbourne
WSW via Havant Thicket
(B4)

WRP to Otterbourne
via Upper Itchen or
environmental buffer
(B2, B5)

Havant Thicket
reservoir

Budds Farm
WTW to WRP
(all)

WRP to Lower Itchen
(B1)

Water recycling plant
(WRP)

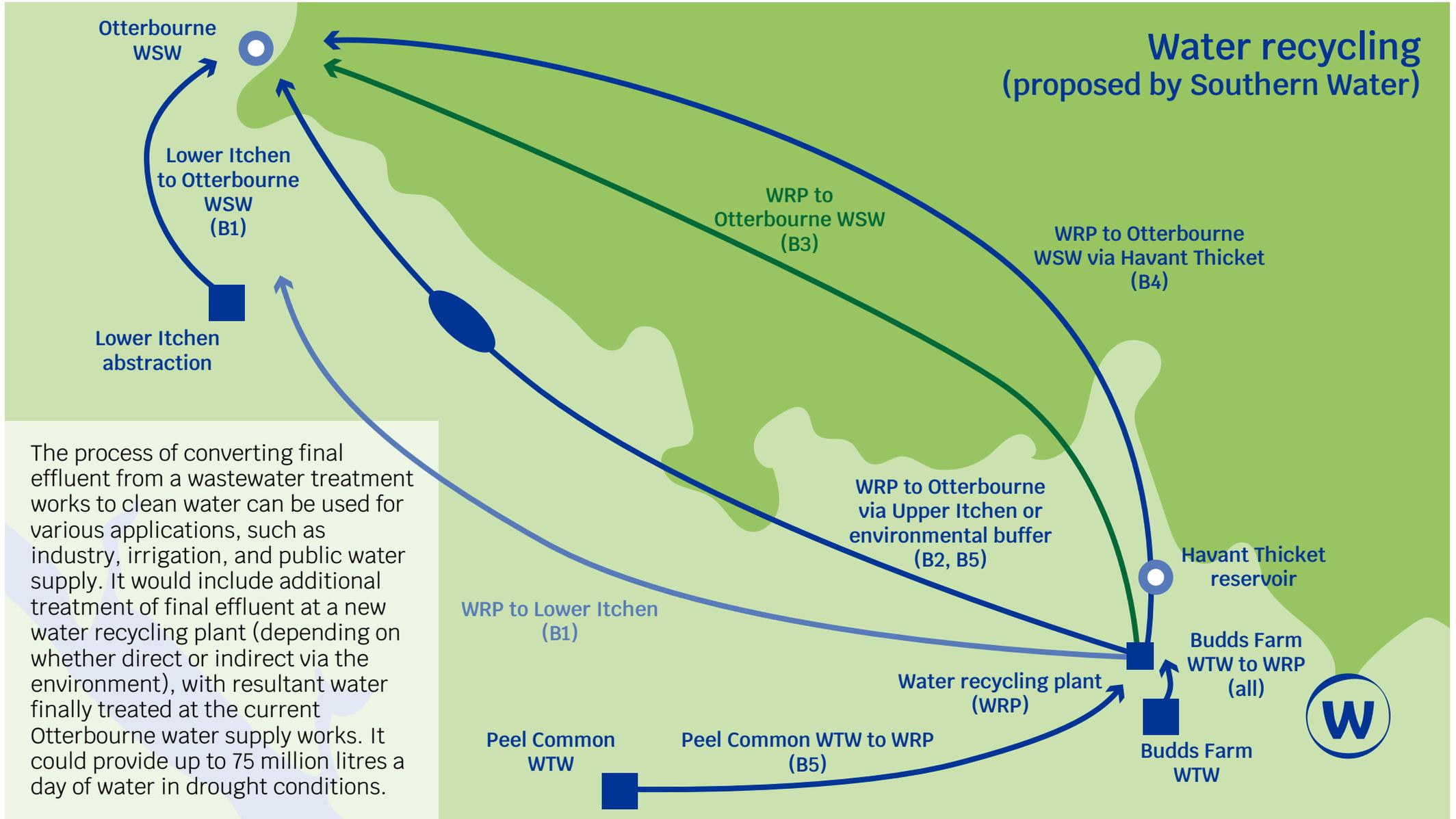
Peel Common
WTW

Peel Common WTW to WRP
(B5)

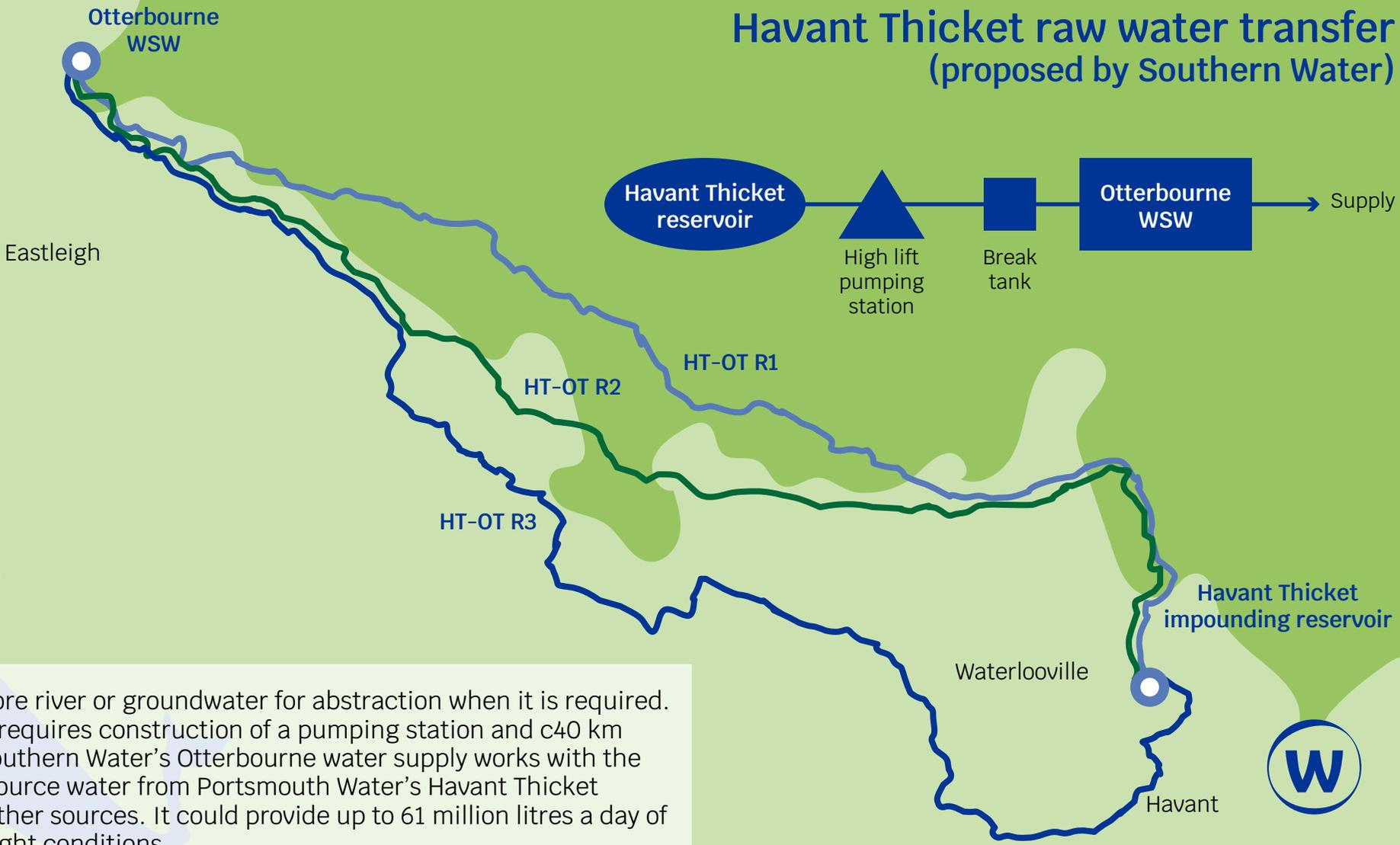
Budds Farm
WTW



The process of converting final effluent from a wastewater treatment works to clean water can be used for various applications, such as industry, irrigation, and public water supply. It would include additional treatment of final effluent at a new water recycling plant (depending on whether direct or indirect via the environment), with resultant water finally treated at the current Otterbourne water supply works. It could provide up to 75 million litres a day of water in drought conditions.



Havant Thicket raw water transfer (proposed by Southern Water)



Reservoirs store river or groundwater for abstraction when it is required. This solution requires construction of a pumping station and c40 km pipeline to Southern Water's Otterbourne water supply works with the potential to source water from Portsmouth Water's Havant Thicket reservoir or other sources. It could provide up to 61 million litres a day of water in drought conditions.