



Howley Energy & Water Limited

CASE STUDY – PALACE OF WESTMINSTER 2022 - ONGOING

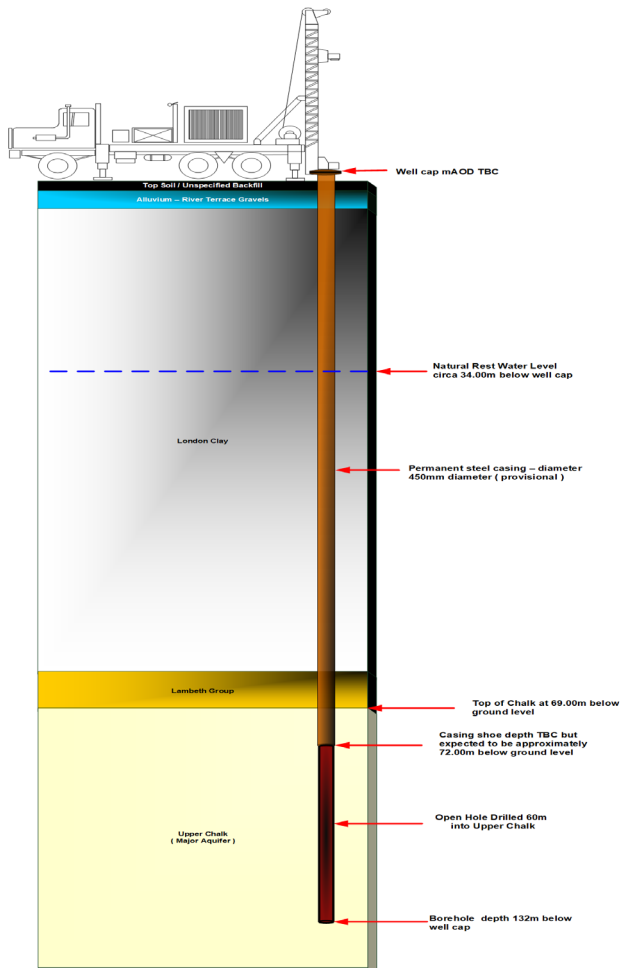
Howley Energy & Water Ltd were appointed in 2022 by Vital Energi / BDP under the Restoration & Renewal Delivery Authority Ltd to assess the potential to serve the world-famous Palace of Westminster, building with low carbon open loop borehole and river technologies.

An initial feasibility assessment carried out by Howley Energy & Water Ltd has identified that a River Source Heat Pump system could provide a significant contributing solution towards the heating and cooling strategy for the Palace, along with open loop boreholes as the lead technology.

abstraction and recharge boreholes required to service peak heating and cooling demands and long term efficiency and sustainability expectations.

Howley have now been appointed by multiple teams to develop differing scenarios under the direction of Parliamentary engineering directors.

		Expected Geological Sequence and Borehole Depths Open Loop Borehole System	
Restoration & Renewal DA Ltd	R/A	November 2023	Palace of Westminster
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Client	Confidential
Location	Westminster, London
Peak Heating kW	4,800
Peak Cooling kW	3,900
River Flow Rate	100 l/sec
Groundwater Flow Rate	97 l/sec
Borehole configuration	5nr pairs
Borehole distance	≥ 350m
Appointed	2022 - Ongoing
Referee	Please contact

Howley Energy & Water Ltd have completed hydrogeological and thermal aquifer assessments to advise the expected number and placement of