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East Street development not off the Hook

31 July 2024



On Tuesday, 16th of July, the Environment Committee at Epsom and Ewell Council sat down to discuss the possibility that there might be considerable environmental issues at the Hook Road Multi-Story Car Park.

It was decided in principle to release the Hook Road Car Park to facilitate wider redevelopment of the gas holder site. Hesitation is largely due to the lack of information on the severity of the level of contamination in the area.

In the report provided by council officer Mark Shepard, it was stressed that the issues of contamination are based on what is underneath the car park, that there is no present risk to people's health, and it is safe to use for its intended purpose.

The Hook Road Car Park sits on top of a water aquifer and operates directly adjacent to a former gas works that has been in operation since circa 1870 (which can be seen on the historical land use map). Given the lack of environmental research into the soil and water of the gas holder site, it's not known to what extent the Hook Road Car Park is dealing with a ticking time bomb of contaminants. Gas sites are generally considered some of the most contaminated sites across the United Kingdom, especially ones that have been in operation from the 19th to 20th century, when there were next to no regulations for the disposal of industrial waste.

The byproducts of coal gasification include tar and pitch, which contain toxic and potentially carcinogenic polycyclic aromatic hydrocarbons (PAHs). Ammonia, another byproduct, can contaminate soil and groundwater. Other harmful substances, such as toxic phenolic compounds, spent oxides, and sulphur compounds, also pose contamination risks to soil and water. Additionally, the process involves toxic chemicals that contribute to heavy metal pollution, including lead, arsenic, mercury, and chromium. These byproducts pose significant environmental and health risks due to their persistence and toxicity. As for the gas holder site at Hook Road, council officer Mark Shepard stated in the committee meeting that "we don't yet know the level of contamination."

There is the additional factor of Thames Water's Epsom Water Works, located a short distance away. The East Street drinking water boreholes are in close proximity (less than 200m) to the former gas works site. This means that if there are any attempts for a clean-up at the former gas works site, it would necessitate thorough monitoring by the Environment Agency on account of its potential risk for contamination. In the meantime, the council's decision remains provisional as they await more detailed environmental assessments to determine the appropriate course of action.

Image: Hook Road Car Park and gasworks – Google

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