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UNITED KINGDOM

01 July 2025

Project/File: 36194-2025-07-01

Freddie Instone
Charity Farm
Pulborough
West Sussex
RH20 4HP

Dear Freddie,

Reference: Response to Environmental Health and Licensing comments on Hydrock Water Supply Borehole Investigation at Land North of 6 Montpelier Cottages, Old London Road, Washington, West Sussex

Thank you for providing the comments on our report set out by Horsham District Council Environmental Health and Licensing team. We've reviewed these comments and amended our report as appropriate which I enclose as revision P03. I've detailed below how we've responded to the comments:

1. Additional detail has been included within Section 4.4 with the number of well volumes purged prior to sampling. In summary around 10 well volumes were purged from BH1 and 5 well volumes from BH2.
2. The sampling date for BH1 and BH2 has been included within Section 4.4, the sample dates were 5th December and 6th December 2025 respectively. Additional detail on the sampling methodology has been included within the updated report. The sampling was undertaken in accordance with BS ISO 5667-11:2009 and BS10175+A2:2017 and analysis was completed by UKAS accredited labs. I've enclosed our groundwater sampling methodology that our geoenvironmental consultant is trained in and this procedure was followed during the sampling.
3. The level of detection presented within the report was for benzene analysed within a broad suite of volatile organic compounds, reported with a detection limit of 3 µg/l. However, another analysis for petroleum hydrocarbons (TPH CWG) was undertaken and included analysis for benzene (reported as aromatic fraction EC5 to EC7) with a lower level of detection of 1 µg/l. Our report has been updated to reflect the results of the TPH CWG benzene analysis, which were <1 µg/l for both BH1 and BH2.
4. A laboratory detection level of <0.1 µg/l was requested for epichlorohydrin. However, the laboratory raised the detection level to <1 µg/l due to "matrix interference". Further detail has been requested from the laboratory:

"The reporting limit was raised for these samples because a spike recovery of 193% was obtained. This is outside the acceptable quality criteria dictated by SOP200, so the samples would ordinarily be repeated 1:10 to improve the spike recovery. Because they were negative in the first instance the reporting limit was raised to what it would be had the 1:10 dilution been done to cover off the poor spike recovery."

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5. The laboratory testing did not detect epichlorohydrin at a concentration greater than 0.1 µg/l but raised the LoD to 1 µg/l to comply with their accreditation. Whilst this detection level reported is above the UK Water Quality threshold, on the basis that no other organic compounds were detected within the groundwater samples, it is considered extremely unlikely that epichlorohydrin is elevated above 0.1 µg/l in the groundwater within the aquifer below the site.
6. From sampling to analysis all samples were kept under controlled conditions. The epichlorohydrin analysis sample receipt date refers to the date at which RPS received the sample from i2 Analytical. i2 Analytical storage and transport procedures are in line with current UK requirements and the sample was transported under a chain of custody procedure between laboratories. The RPS laboratory certificate for epichlorohydrin does not report the samples as deviating due to exceeding their accredited holding/ storage times, or for any other reason.
7. It is our opinion that, despite the reported 1 µg/l limit of detection for epichlorohydrin, the concentration is likely to be <0.1 µ/l and there is sufficient analysis to allow the development to proceed. Future confirmatory testing for epichlorohydrin should be included as part of the further testing recommended to support the water treatment system design.

Yours sincerely,

Stantec UK Limited



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Attachment:

36194-HYD-XX-XX-RP-GE-1000_P03.pdf

FP001 rev1 GW well gauging and sampling_Feb2023.pdf