

Patrick Fryer

Adam Khan Architects

02 February 2017

Project

32 Glenilla Road Houses

Ref

J035

Dear Patrick

Further to the queries raised by Camden Council in relation to the planning application for this project (queries copied below in italics), please see our response below in relation to the Building Services:

- 1) *The applicant should demonstrate the following to show that GSHP will be suitable for the development:*

Ground survey and drilling license from EA have been submitted (and any other surveys/ consents)

Evidence given that local geology can accommodate the necessary excavation

Technology has COP of 4 or more

In preparing the initial design we have worked with GSHP specialist installers RHI Energies.

The Environment Agency does not require a drilling license for closed-loop type GSHP. This is confirmed at this link:


http://www.gshp.org.uk/pdf/EA_GSHC_Good_Practice_Guide.pdf

The Geotechnical Report submitted as part of the basement impact assessment indicates from borehole logs that the site is upon the London Clay formation at a depth of approximately 2-3m deep. The attached calculation by RHI Energies estimates the performance of the GSHP system based on the number and separation of boreholes in the clay formation. Therefore, we consider the geology can accommodate this system.

The attachment also indicates that the GSHP COP is 4.3

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- 2) *No overheating assessment provided demonstrating that overheating risk has been managed.*

Please find attached the summary overheating risk assessment from the SAP Calculations performed for the proposed design. These indicate a slight risk of overheating, which is considered acceptable.

- 3) *The applicant has not confirmed that the policy targets for water efficiency will be met – these targets will be conditioned.*

The project will be designed and specified in detail to meet the policy:

"New residential development will be required to demonstrate that the development is capable of achieving a maximum internal water use of 105 litres per person/day, with an additional 5 litres person/day for external water use."

- 4) *No information provided on energy metering.*

ENE3 Code Compliant Energy Display Devices will be installed to meter and display gas and electricity consumption.

Yours sincerely

Adam Ritchie