

**Information Systems Division**

Kensington Town Hall, Hornton Street, London, W8 7NX

**Head of Information Systems Division**

Barry Holloway

Simon Haslam  
Basement Force  
Unit 5  
Rainbow Industrial Park  
Approach Road  
Raynes Park  
London  
SW20 0JY

27 February 2014

My reference: FOI2014-276  
Please ask for: Robin Yu

Dear Mr. Haslam

**FREEDOM OF INFORMATION REQUEST REF: 2014-276**

I am responding to your request under the Freedom of Information Act 2000, which we received on 18 February 2014, for information held by the Council.

Section 39 of the Freedom of Information Act provides that environmental information shall be handled in accordance with the Environmental Information Regulations (EIR). Your request has been handled in accordance with EIR as it is our opinion that information held for the purposes of planning will constitute environmental information. These matters are considered to be measures likely to affect the elements and factors listed in paragraphs (a) and (b) of the definition of environmental information as set out in regulation 2(1). For example, construction projects are likely to affect land use, waste generation and disposal, water provision and drainage, energy use and noise, amongst others.

**Request dated February 18<sup>th</sup>:**

*a. The types and quantities of each building material/s used in calculating the embodied carbon.*

The types and quantities of each building material used for the calculations are detailed in Appendix 1 of Eight Associates report, page 48 and 49. This section of the report details the methodology, lists the BRE build-ups used

**Direct Line:** 020 7938 8226

**Email:** [robin.yu@rbkc.gov.uk](mailto:robin.yu@rbkc.gov.uk)

**Web:** [www.rbkc.gov.uk](http://www.rbkc.gov.uk)

showing the types of building materials for the calculations and the functional units.

*b. The type and quantity of waste material assumed as being produced during construction.*

As explained in page 14 of Eight Associates report the waste of materials during construction works and during the building's life cycle is included in the carbon factors used for the embodied carbon. For more information please consult the Green Guide methodology documents in BRE website (<http://www.bre.co.uk/greenguide/page.jsp?id=2106>).

Based on this the only waste considered for the construction works was the spoil removal from site to avoid data duplication. The spoil volumes were based on the volume of each basement and a bulk factor of 35%. These figures were based on Baxter's report - 'Case studies of basement excavation in relation to programme and vehicle movements.'(reference 7 in the Eight Associates report)

*c. The existing and proposed drawings used for the case study.*

All drawings and TMPs that were used for the case studies are available on the RBKC planning portal.

A list of the case studies' planning references are provided below:

- 2 Ruston Mews PP/12/00944
- 8 Lamont Road PP/13/3533
- 36 Markham square PP/13/05803
- 17 Neville Street PP/13/00102
- 5 Eldon Road PP/13/02183
- 49 Redcliffe Road PP/13/03600
- 8 Holland Villas Road PP/12/01090
- 16 Radnor Walk PP/13/03800
- 37 Jubilee Place PP/13/3996
- 19 Clareville Grove PP/12/04133
- 24 Chelsea square PP/13/03097
- 16A St. Lukes Street PP/13/04827
- 30 Brompton Square PP/13/05535 + LB/13/05536
- 30 Milner Street PP/13/04640
- 2 Tregunter Road: PP/13/01200
- 151 Old Church Street PP/08/03319

*d. All assumptions used in the calculations and / or model for calculating the embodied carbon.*

Please see Appendix 1, pages 48 and 49, from Eight Associates' report

*e. Any other inputs used for calculating the embodied carbon.*

Please see Appendix 1, pages 48 and 49, from Eight Associates' report.

*f. The model and / or spreadsheet used for calculating the embodied carbon.*

The spreadsheets used for calculations are Eight Associates property and the disclosure of such information was not included in the original contractual agreement. Also, the release of this information would involve the disclosure of third party proprietary information, under confidential agreements.

However, the basis for all calculations, assumptions, methodological approach, and references has been provided in full detail. The level of detailed information provided allows any party to undertake their own analysis.

*g. All assumptions and inputs used in calculating the construction works carbon emissions.*

All the assumptions made are available in Appendix 1 of Eight Associates report, pages 50 and 51. In the table on page 51 of Eight Associates report the gas carbon emission factor is missing, this is a typing error, the Natural Gas Carbon Emission used is 0.204 kg of CO<sub>2</sub> eq/kWh in line with DEFRA.

*h. All inputs used in calculating the construction works carbon emissions*

All inputs are available in Appendix 1 of Eight Associates' report, pages 50 and 51.

*i. The model and / or spreadsheet used for calculating the construction works carbon emissions.*

Please see the response to point f.

*j. All assumptions used in calculating the 'Total Existing Operational Carbon'*

Please see Appendix 1, page 52, from Eight Associates' report.

*k. All inputs for the model for calculating the 'Total Existing Operational Carbon'*

Please see Appendix 1, page 52, from Eight Associates' report.

*l. The model and / or spreadsheet used for calculating the 'Total Existing Operational Carbon'*

Please see the response to point f.

*m. All assumptions used in calculating the 'Total Post Operational Carbon'*

Please see Appendix 1, page 52, from Eight Associates' report.

A methodological clarification that should be viewed in accordance with Appendix 1. The energy consumption for each source (Space heating, Water

heating, pumps and fans and lighting) was taken from the SAP model was multiplied by the DEFRA CO2 equivalent figures for grid electricity and gas.

*n. All inputs for the model for calculating the 'Total Post Operational Carbon'*

Please see Appendix 1, page 52, from Eight Associates' report.

*o. The model and / or spreadsheet used for calculating the 'Total Post Operational Carbon'*

Please see the response to point f.

### **Request dated 25<sup>th</sup> February:**

*SAP input summaries and worksheets of the modelled case studies (used to calculate the before and after operational emissions).*

The spreadsheets used for calculations are Eight Associates property and the disclosure of such information was not included in the original contractual agreement.

The dwelling GIFAs for each development pre and post, and the difference between the two can be found in Appendix 2.

All heights and areas were measured from the drawings available on the RBKC Planning Portal.

All building services specifications were in accordance with RdSAP for the existing elements and UK 2010

Building Regulations and the Domestic Building Services Compliance Guide 2010 for the new elements.

All u values were aligned with the BRE Green Guide build-ups unless otherwise stated; please see Appendix 1, page 52, from Eight Associates' report for any exemptions.

### **Complaints**

I trust this has satisfied your request. Should you be unhappy with the handling of your request, the Council has an internal complaints process for handling FOIA complaints. Complaints are reviewed by the Chief Solicitor and Monitoring Officer or her nominee. A form is available from our website to lodge your complaint

<http://www.rbkc.gov.uk/councilanddemocracy/freedomofinformation.aspx>

Please contact us if you do not have website access and we can provide you with a copy of the form. Following this review, should you still be unhappy with how your information request has been handled, you have a further

right to appeal to the Information Commissioner who is responsible for ensuring compliance with FOIA.

Yours sincerely

**Robin Yu**

Information Protection Assistant

Information Governance Team

Information Systems Division (ISD)

The Royal Borough of Kensington and Chelsea

The Town Hall, Hornton Street, London W8 7NX

Tel: 020 7938 8226

Web: <http://www.rbkc.gov.uk>