CampbellReith consulting engineers

Great Ormond Street Hospital for Children,

London WC1N 3JH

Basement Impact Assessment

Audit

For

London Borough of Camden

Project Number: 13693-67

Revision: F1

October 2022

Campbell Reith Hill LLP 15 Bermondsey Square London SE1 3UN

T: +44 (0)20 7340 1700 E:london@campbellreith.com W: www.campbellreith.com



Document History and Status

Revision	Date	Purpose/Status	File Ref	Author	Check	Review
D1	July 2022	Comment	GK13693-67-110722-GOSH Phase 4_D1.docx	GK	HS	KB
D1	October 2022	Planning	GK13693-67-200922-GOSH Phase 4_F1.docx	GK	HS	EMB

This document has been prepared in accordance with the scope of Campbell Reith Hill LLP's (CampbellReith) appointment with its client and is subject to the terms of the appointment. It is addressed to and for the sole use and reliance of CampbellReith's client. CampbellReith accepts no liability for any use of this document other than by its client and only for the purposes, stated in the document, for which it was prepared and provided. No person other than the client may copy (in whole or in part) use or rely on the contents of this document, without the prior written permission of Campbell Reith Hill LLP. Any advice, opinions, or recommendations within this document should be read and relied upon only in the context of the document as a whole. The contents of this document are not to be construed as providing legal, business or tax advice or opinion.

© Campbell Reith Hill LLP 2022

Document Details

Last saved	07/10/2022 08:28
Path	GK13693-67-200922-GOSH Phase 4_F1.docx
Author	G Kite, BSc MSc DIC FGS
Project Partner	E M Brown, BSc MSc CGeol FGS
Project Number	13693-67
Project Name	Great Ormond Street Hospital, London WC1N 3JH
Planning Reference	2022/2255/P



Contents

1.0	Non-technical summary	.1
2.0	Introduction	.3
3.0	Basement Impact Assessment Audit Check List	.6
4.0	Discussion	.10
5.0	Conclusions	.13

Appendix

Annendix 1.	Residents'	Consultation	Comments
Appendix 1.	Residents	Consultation	COMMENTS

- Appendix 2: Audit Query Tracker Appendix 3: Supplementary Supporting Documents



1.0 NON-TECHNICAL SUMMARY

- 1.1. CampbellReith was instructed by London Borough of Camden, (LBC) to carry out an audit on the Basement Impact Assessment submitted as part of the Planning Submission documentation for the Great Ormond Street Hospital, Frontage Building, London WC1N 3JH (planning reference 2022/2255/P). The basement is considered to fall within Category C as defined by the Terms of Reference.
- 1.2. The Audit reviewed the Basement Impact Assessment (BIA) for potential impact on land stability and local ground and surface water conditions arising from basement development in accordance with LBC's policies and technical procedures.
- 1.3. CampbellReith was able to access LBC's Planning Portal and gain access to the latest revision of submitted documentation and reviewed it against an agreed audit check list.
- 1.4. The BIA has been prepared by A-squared Studio Engineers Ltd with supporting documents provided by A2 Site Investigation Limited, RSK Ltd and BDP Architects. It has been demonstrated that the authors are appropriately experienced.
- 1.5. The site is approximately 0.2 hectares with an existing building on site comprising part of the Great Ormond Street Hospital frontage building and the main hospital entrance. The proposed development comprises the demolition of the existing buildings on site and the construction of an eight-storey hospital building together with 2 basement floors.
- 1.6. The BIA includes the majority of the information required from a desk study in line with LBC guidance.
- 1.7. A site investigation indicates that the ground conditions comprise Made Ground overlying the Lynch Hill Gravel Member, London Clay Formation, Lambeth Group and Thanet Sand. Groundwater was encountered within the Made Ground and Lynch Hill Gravel Member.
- 1.8. A number of supporting documents reference the close proximity of the historic River Fleet, which have been considered within the updated BIA. The Lynch Hill Gravel is a Secondary A Aquifer. It is noted that the construction records from the adjacent building indicate a number of groundwater related issues.
- 1.9. Interpretative geotechnical information has been provided in accordance with the LBC guidance, which also includes preliminary information in regard to the proposed piled foundations.
- 1.10. Outline temporary and permanent works structural information for the proposed basements have been provided to demonstrate feasibility and consistency with the assessment criteria for



considerations of ground movements / structural damage impacts. The temporary works plan includes detail on the required dewatering.

- 1.11. A ground movement assessment (GMA) indicates that adjacent buildings will sustain no more than Category 1 damage (Very Slight) in accordance with the Burland Scale. The revised submission includes supporting structural information which confirms the assumptions of the GMA and includes the full inputs and outputs of the assessment models.
- 1.12. The BIA confirms that structural monitoring will be undertaken during the works with trigger values adopted to control construction and mitigate impacts to adjacent structures and infrastructure. Asset protection criteria should be agreed with the relevant asset owners.
- 1.13. There will be no change to the impermeable site area as a result of the proposed development. The BIA and supporting documents indicate that the site will benefit from the proposed drainage scheme, although details have not been provided. The site is within a Critical Drainage Area and proposals for attenuated drainage in accordance with best practice should be agreed with LBC and Thames Water.
- 1.14. The Flood Risk Assessment indicates the site is at generally low risk of flooding. Flood mitigation measures are presented.
- 1.15. Considering the additional information presented, it can be confirmed that the BIA meets the requirements of Camden Planning Guidance: Basements.



2.0 INTRODUCTION

- 2.1. CampbellReith was instructed by London Borough of Camden (LBC) on 13th June 2022 to carry out a Category C Audit on the Basement Impact Assessment (BIA) submitted as part of the Planning Submission documentation for Great Ormond Street Hospital, Frontage Building, London WC1N 3JH, Camden Reference 2022/2255/P.
- 2.2. The Audit was carried out in accordance with the Terms of Reference set by LBC. It reviewed the Basement Impact Assessment for potential impact on land stability and local ground and surface water conditions arising from basement development.
- 2.3. A BIA is required for all planning applications with basements in Camden in general accordance with policies and technical procedures contained within:
 - Guidance for Subterranean Development (GSD). Issue 01. November 2010. Ove Arup & Partners.
 - Camden Planning Guidance (CPG): Basements. January 2021
 - Camden Development Policy (DP) 27: Basements and Lightwells.
 - Camden Development Policy (DP) 23: Water.
 - The Local Plan (2017): Policy A5 (Basements).
- 2.4. The BIA should demonstrate that schemes:
 - a) maintain the structural stability of the building and neighbouring properties;
 - b) avoid adversely affecting drainage and run off or causing other damage to the water environment; and,
 - c) avoid cumulative impacts upon structural stability or the water environment in the local area;

and evaluate the impacts of the proposed basement considering the issues of hydrology, hydrogeology and land stability via the process described by the GSD and to make recommendations for the detailed design.

2.5. LBC's planning portal describes the proposal as: *"Redevelopment of the Great Ormond Street Hospital (GOSH) Frontage Building (for the purposes of consultation: Phase 4 Children's Cancer Centre) comprising demolition of the existing building, and erection of a replacement (for the purposes of consultation: 8 storey (plus overruns and rooftop paraphernalia)) hospital building*



(Class C2, for the purposes of consultation: includes ancillary cafe and school) with a basement (for the purposes of consultation: 2 storey), landscaped amenity spaces at roof top and balcony and ground floor levels, plant equipment, cycle storage, refuse storage and other ancillary and associated works pursuant to the development."

- 2.6. The planning portal confirmed the site lies within the Bloomsbury Conservation Area and is positioned opposite a number of grade II listed Georgian Terrace properties (No.'s 19-27 and 41-61) and to the east of a number of buildings of architectural merit including the immediately adjacent Paul O'Gorman Building designed by Charles Barry Jr. (1893) and located on the site of the original 'Hospital for Sick Children'.
- 2.7. CampbellReith accessed LBC's Planning Portal on 1st July 2022 and gained access to the following relevant documents for audit purposes:
 - Basement Impact Assessment (ref 1226) dated 20 May 2022 by A-squared Studio Engineers Ltd including:
 - Geotechnical and Geo-environmental Desk Study Report (ref 1226) dated 17 May 2022 by A-squared Studio Engineers Ltd.
 - Geotechnical and Geo-environmental Factual Report (ref 12921) dated 17 May 2022 by A2 Site Investigation Limited.
 - Site Location Plan and existing and proposed plans and sections by BDP.
 - Building Ground Movement Assessment (ref 1226) dated 20 May 2022 by A-squared Studio Engineers Ltd.
 - Thames Water Utilities Ground Movement Assessment (ref 1226) dated 17 May 2022 by A-squared Studio Engineers Ltd.
 - Flood Risk Assessment (ref 680181-R1(03)-FRA) dated May 2022 by RSK Ltd.
 - Structural Assessment Report (ref 1292) dated 17 May 2022 by A2 Site Investigation Limited.
 - Utilities Survey Report dated 20 December 2021 by Midland Survey Ltd.
 - Arboricultural Planning Statement dated 20 May 2022 by RSK ADAS Ltd.
 - Design & Access Statement (ref P2007598) dated 20 May 2022 by BDP.
 - Demolition and Construction Management Plan (ref PO 05) dated 20 May 2022 by SISK Building Contractors.
 - Planning consultation comments.



- 2.8. Subsequent to the initial audit report, CampbellReith gained access to the following relevant documents:
 - Basement Impact Assessment (ref 1226-A2S-XX-XX-RP-0003-03) dated 3 August 2022 by A-squared Studio Engineers Ltd.
 - Inputs and outputs of the Ground Movement Assessment models.
 - Email from Paul Smith of A-squared Studio Engineers Ltd dated 28 September 2022 (Appendix 3).



3.0 BASEMENT IMPACT ASSESSMENT AUDIT CHECK LIST

Item	Yes/No/NA	Comment
Are BIA Author(s) credentials satisfactory?	Yes	Sufficient evidence has been provided to demonstrate that the BIA Authors have the necessary experience.
Is data required by CI.233 of the GSD presented?	Yes	
Does the description of the proposed development include all aspects of temporary and permanent works which might impact upon geology, hydrogeology and hydrology?	Yes	
Are suitable plans/maps included?	Yes	
Do the plans/maps show the whole of the relevant area of study and do they show it in sufficient detail?	Yes	
Land Stability Screening: Have appropriate data sources been consulted? Is justification provided for 'No' answers?	Yes	Section 4.2 of the BIA.
Hydrogeology Screening: Have appropriate data sources been consulted? Is justification provided for 'No' answers?	Yes	Section 4.1 of the BIA.
Hydrology Screening: Have appropriate data sources been consulted? Is justification provided for 'No' answers?	Yes	Section 4.3 of the BIA.
Is a conceptual model presented?	Yes	



Item	Yes/No/NA	Comment
Land Stability Scoping Provided? Is scoping consistent with screening outcome?	Yes	Section 5.2 and 5.3 of the BIA.
Hydrogeology Scoping Provided? Is scoping consistent with screening outcome?	Yes	Section 5.1 of the BIA.
Hydrology Scoping Provided? Is scoping consistent with screening outcome?	No	However, with reference to the supporting documents, the existing site is 100% impermeable due to building cover / hardstanding in the areas of the proposed basement, and it is accepted this does not result in an impact due to basement construction.
Is factual ground investigation data provided?	Yes	Geotechnical and Geo-environmental Factual Report (ref 12921) dated 17 May 2022 by A2 Site Investigation Limited.
Is monitoring data presented?	Yes	Appendix E of the A2 Site Investigation Report.
Is the ground investigation informed by a desk study?	Yes	Geotechnical and Geo-environmental Desk Study Report (ref 1226) dated 17 May 2022 by A-squared Studio Engineers Ltd.
Has a site walkover been undertaken?	Yes	As part of Geotechnical and Geo-environmental Factual Report by A2 Site Investigation Limited.
Is the presence/absence of adjacent or nearby basements confirmed?	No	The BIA states that 'it is understood that there are no existing basements immediately adjoining the new basement on the north, south and western sides (at the same level of the new proposed basement). The Octav Botnar building to the east of the site footprint is understood to have an existing single storey basement level'.
Is a geotechnical interpretation presented?	Yes	Sections 5 and 6 of Geotechnical and Geo-environmental Desk Study Report by A-squared Studio Engineers Ltd.
Does the geotechnical interpretation include information on retaining wall design?	Yes	Geotechnical Design Report



Yes/No/NA	Comment
Yes	Arboricultural Impact Assessment Report, Ground Movement Assessment
Yes	
Yes	Assumptions have been made on the absence of adjacent basements. Depending on hydrogeological assessment review.
Yes	Section 9 of the BIA. Updated.
Yes	Updated.
Yes	
Yes	Confirmed following review of hydrogeological assessments and temporary structural works / GMA information.
Yes	Section 8.2 of the BIA.
Yes	Confirmed following review of hydrogeological assessments and temporary structural works / GMA information.
Yes	Confirmed by presentation of outline temporary works information and inputs / outputs of GMA modelling software.
Yes	Confirmed following review of hydrogeological assessments.
Yes	Confirmed following review of hydrogeological assessments.
-	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes



Item	Yes/No/NA	Comment
Does report state that damage to surrounding buildings will be no worse than Burland Category 1?	Yes	Confirmed by presentation of outline temporary works information and inputs / outputs of GMA modelling software.
Are non-technical summaries provided?	Yes	



4.0 DISCUSSION

- 4.1. The BIA has been prepared by A-squared Studio Engineers Ltd with supporting documents provided by A2 Site Investigation Limited, RSK Ltd and BDP Architects. The qualifications of the authors of the BIA for the Surface Water and Flooding and Land stability are in accordance with LBC guidance. Sufficient evidence has been provided to demonstrate that the BIA Authors for the hydrogeological assessments have the necessary experience.
- 4.2. The site is approximately 0.2 hectares with an existing building on site comprising part of the Great Ormond Street Hospital frontage building and the main hospital entrance. It is understood that the building has an existing lower ground floor / basement which covers the entire footprint. The proposed development comprises the demolition of the existing buildings on site and the construction of an eight-storey hospital building together with 2 basement floors. It is understood that the basement formation will extend to approximately 6.90m below the existing lower ground level at the rear of the building.
- 4.3. The BIA includes the majority of the information required from a desk study in line with the GSD Appendix G1. The presence of underground infrastructure across the site is confirmed within the Utilities Survey Report by Midland Surveys Ltd.
- 4.4. Following a review of the revised BIA, the Screening assessment includes all the questions from the latest LBC guidance (CPG Basements 2021).
- 4.5. The desk study and FRA state that the historic River Fleet is in very close proximity to the site, and following a review of the revised BIA this has been sufficiently assessed.
- 4.6. It is noted that the construction records from the adjacent building indicate a number of groundwater related issues which required mitigation actions to be undertaken during the works. The Structural Report refers to the "General Construction Information" of the building from a Contractors Account from Architects Journal Building Study dated 6th April 1994: *"The building sits on 280 piled foundations bored to depths of 25m below the existing basement level. The tops of the piles are incorporated into pile caps constructed beneath a 300mm-thick basement slab. Running sand and a very high-water table meant drainage was required 24 hours a day during the foundation construction. Encased electric pumps to suppress noise were used to avoid disturbance. Many of the pile caps had to be coffer-dammed'.*
- 4.7. Considering 4.5 and 4.6, the underlying Secondary A Aquifer of the Lynch Hill Gravel, and the assumptions made about the location of nearby basements (that may also penetrate and obstruct groundwater flow within the aquifer), the hydrogeological assessments have been reviewed and no significant impacts have been identified (also as 4.9 and 4.11).



- 4.8. An intrusive site investigation was undertaken in August and September 2021 with subsequent monitoring of boreholes between 15th September and 27th October 2021. The investigation comprised 10 no. hand excavated structural trial pits, 1 no. cable percussion borehole to a maximum depth of 40.00m below ground level (bgl), and 2 no. cable percussion boreholes to a maximum depth of 21.00m bgl. A standpipe was installed in each of the boreholes for monitoring of ground gas and groundwater levels. The ground conditions comprise Made Ground (up to 2.10m thickness) overlying the Lynch Hill Gravel Member (varying in thickness from 0.30m to 3.10m) overlying the London Clay Formation overlying the Lambeth Group and Thanet Sand.
- 4.9. Groundwater level monitoring was carried out on six occasions between 15th September 2021 and 27th October 2021. Groundwater was encountered between 0.75m and 1.09m bgl perched above the London Clay. The proposed basement formation will extend to approximately 6.90m bgl therefore be below standing groundwater level.
- 4.10. Interpretative geotechnical information has been provided in accordance with the GSD Appendix G3, which also includes preliminary information in regard to the proposed piled foundations.
- 4.11. A secant pile wall extending into the London Clay (to achieve a full groundwater cut-off) is proposed, which will limit the ability of groundwater to flow into the basement. The BIA states that the groundwater monitoring data indicates a consistent water table elevation across the site and that no prevailing groundwater flow direction has been identified. The BIA concludes that the creation of a new groundwater cut-off wall will have limited impact on the hydrogeological regime and/or adjacent properties and that groundwater will be permitted to flow around the new basement box preventing any major damming effects.
- 4.12. It is understood that a piled raft foundation system is currently proposed and detailed design analyses are being undertaken. The proposed earth retention system for the basement deepening comprises a secant pile wall with internal liner wall and drained cavity. The BIA states that temporary propping measures will be put in place to support the retaining wall and limit ground movements as much as possible, although no information has been presented to support this. Outline temporary and permanent works structural information for the proposed basements are provided, sufficient to demonstrate feasibility and consistency with the assessment criteria for considerations of ground movements / structural damage impacts. The revised BIA provides a temporary works plan include detail on sequencing and propping, and the required dewatering.
- 4.13. A ground movement assessment (GMA) has been provided for review. In total, 95 façades of the neighbouring buildings were considered: Paul O'Gorman Building, Variety Club Building, Premier Inn Clinical Building, Octav Botnar Wing, 47 Great Ormond Street and 29 Orde Hall Street. The results indicates that adjacent buildings will sustain no more than Category 1 damage (Very Slight) in accordance with the Burland Scale. Full inputs and outputs of the assessment models have been provided along with supporting structural information confirming the assumptions of the GMA.



- 4.14. Assessment of impacts to nearby utility infrastructure is also presented.
- 4.15. The BIA confirms that structural monitoring will be undertaken during the works with trigger values adopted to control construction and mitigate impacts to adjacent structures and infrastructure. Asset protection criteria should be agreed with the relevant asset owners.
- 4.16. With reference to the supporting documents, the existing site is 100% impermeable due to building cover / hardstanding in the areas of the proposed basement, which will not change. Whilst Screening notes some minor changes in the wider site area (due to removal of trees, for instance) it is accepted this does not result in an impact due to basement construction.
- 4.17. The BIA and supporting documents indicate that the site will benefit from the proposed drainage scheme, although details have not been provided. The site is within a Critical Drainage Area and proposals for attenuated drainage in accordance with best practice should be agreed with LBC and Thames Water.
- 4.18. The Flood Risk Assessment indicates the site is at generally low risk of flooding. Flood mitigation measures are presented.



5.0 CONCLUSIONS

- 5.1. Sufficient evidence has been provided to demonstrate that the BIA Authors for the hydrogeological assessments have the necessary experience.
- 5.2. Following the revised BIA, the Screening assessment includes all the questions from the latest LBC guidance (CPG Basements 2021).
- 5.3. Following the revised BIA, the hydrogeological assessments have been reviewed and confirmed including comment on potential cumulative impacts.
- 5.4. Geotechnical data and interpretative information are presented, as required by LBC guidance.
- 5.5. Outline temporary and permanent works structural information for the proposed basements has been provided, sufficient to demonstrate feasibility and consistency with the assessment criteria for considerations of ground movements / structural damage impacts.
- 5.6. The full inputs and outputs of the assessment models for the GMA have been provided along with supporting temporary works information.
- 5.7. Asset protection criteria should be agreed with the relevant asset owners.
- 5.8. There will be no change to the impermeable site area as a result of the proposed development.
- 5.9. The Flood Risk Assessment indicates the site is at generally low risk of flooding. Flood mitigation measures are presented.
- 5.10. Considering the additional information presented, it can be confirmed that the BIA meets the requirements of Camden Planning Guidance: Basements.



Appendix 1: Residents' Consultation Comments



Residents' Consultation Comments

There are many objections to this development from local residents and interested parties. The following comments highlight those pertinent to the BIA:

Surname	Address	Date	Issue raised	Response
Conacher	Not provided	6 June 2022	"Damage to our lower ground business address (under street level on Great Ormond Street) - our building is an old one, and our business address is in the lower ground level - I have huge concerns that repeated access by multiple, heavy construction vehicles on Great Ormond Street will cause damage to our building, and our lower ground space. No structural/impact assessment has been undertaken for the lower ground spaces on our side of Great Ormond Street."	Section 4
Not provided	36a Lambs Conduit Street, London, WC1N 3LD	10 June 2022	Building Ground Movement: We are not just talking about one or two buildings here but 95 buildings, most of them heritage buildings – how can this be acceptable? Can an independent report on this be commissioned?	Section 4
Thames Water		10 June 2022	 Waste Comments Thames Water requests that the Applicant should incorporate within their proposal, protection to the property to prevent sewage flooding, by installing a positive pumped device (or equivalent reflecting technological advances), on the assumption that the sewerage network may surcharge to ground level during storm conditions. Conditions relating to foul water infrastructure to be added to any planning permission provided. Conditions relating to surface water drainage to be added to any planning permission provided. Conditions relating to water main which is located within 5m of the proposed development to be added to any planning permission provided. 	Section 4
Unwin	Not provided	20 June 2022	Impacts of trafficking on local structures	Not within Audit Scope



Appendix 2: Audit Query Tracker



Audit Query Tracker

Query No	Subject	Query	Status/Response	Date closed out
1	BIA Format	BIA authors' qualifications.	Closed	September 2022
2	BIA Format	Screening assessment to be updated as CPG Basements 2021	Closed	September 2022
3	Groundwater	Assessments to be updated and reviewed, based on references within the supporting documents, and confirmed by CGeol FGS including comments on cumulative impacts and seasonal groundwater changes.	Closed	September 2022
4	Land Stability	Outline structural information to be provided	Closed	September 2022
5	Land Stability	Ground Movement Assessment input model data and full output data to be provided	Closed	September 2022
6	Surface Water	Drainage proposals to be agreed with LBC and Thames Water, as 4.17, and as requested by statutory consultee.	Note Only	Note Only



Appendix 3: Supplementary Supporting Documents



From: <<u>paul.smith@a2-studio.com</u>> To: <<u>GrahamKite@campbellreith.com</u>>, <<u>alex.nikolic@a2-studio.com</u>> Cc: <<u>camdenaudit@campbellreith.com</u>>, "'Patrick Marfleet'" <<u>Patrick.Marfleet@camden.gov.uk</u>>, <<u>gicheng.sia@a2-</u> <u>studio.com</u>> Date: 09/28/2022 05:03 PM Subject: RE: 13693-67: Great Ormond Street (GOSH) - Basement Impact Assessment

Hi Graham,

Thanks for your time on the phone yesterday.

So in summary, we have adopted the standard CIRIA C760 ground movement curves (see below) for the building damage impact assessment (1226-A2S-XX-XXRP-Y-0004-02). The walls will be propped in the temp and permanent conditions, as shown in the SISK construction sequence drawings.

Figure 4.4 Loadings in PDisp - LT Structural Loadings

The Group B assessments adopt the normalised ground displacement curves reported in CIRIA C760. In addition to the effects arising from the basement excavation, the ground movement effects associated with the installation of the secant pile wall have been considered. The following CIRIA C760 normalised ground movement curves were adopted to assess ground movements due to retention system installation and excavation works:

- Secant pile wall. Installation of contiguous bored pile wall in stiff clay.
- Excavation to formation: Excavation in front of a high stiffness wall in stiff clay.

When you mention smoothed outputs I think this is in reference to the Thames Water Ground Movement Assessment (1226-A2S-XX-XX-RP-Y-0005-02). Is that right?

If so, what we have done here is take the raw utility displaced shapes and smoothed any sharp discontinuities or unrealistic shapes resulting from the simplistic approach to the analysis (Oasys software suites), and then performed the utility strain checks based on these smoothed profiles. Rest assured, this is very common practice and accepted by Thames Water, in fact for most complex jobs we have to perform a degree of smoothing or we would find that nothing ever passes Thames Water criteria!

Note also that the Thames Water asset protection team will be engaged and they will independently review this GMA as part of their approvals process.

Does that clear up everything for you?

Please let us know if you need anything else.

Many thanks, Paul

Paul Smith CEng MICE Associate



T:020 7620 2868 | M:07745 453 345

London

15 Bermondsey Square London SE1 3UN

T: +44 (0)20 7340 1700 E: london@campbellreith.com

Surrey

Raven House 29 Linkfield Lane, Redhill Surrey RH1 1SS

T: +44 (0)1737 784 500 E: surrey@campbellreith.com

Bristol

Unit 5.03, HERE, 470 Bath Road, Bristol BS4 3AP

T: +44 (0)117 916 1066 E: bristol@campbellreith.com

Campbell Reith Hill LLP. Registered in England & Wales. Limited Liability Partnership No OC300082 A list of Members is available at our Registered Office at: 15 Bermondsey Square, London, SE1 3UN VAT No 974 8892-43

Birmingham

Chantry House High Street, Coleshill Birmingham B46 3BP

T: +44 (0)1675 467 484 E: birmingham@campbellreith.com

Manchester

No. 1 Marsden Street Manchester M2 1HW

T: +44 (0)161 819 3060 E: manchester@campbellreith.com