



Code for Sustainable Homes Planning Pre-Assessment Report

**LOM Architecture** 

# 59 Maresfield Gardens

Final

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We are able to advise at all stages of projects from planning applications to handover.

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# **Executive Summary**

This Code for Sustainable Homes Planning Pre-Assessment Report highlights the sustainable features that will be at 59 Maresfield Gardens, Camden by LOM Architecture & Design, having been assessed against relevant national and local planning policies.

The key sustainability features outlined in this assessment are listed below:

- > The dwelling will achieve Code for Sustainable Homes Level 4;
- > Internal water consumption will be reduced to a maximum of 105 litres/person/day in line with the London Plan;
- > Cycling will be encouraged through the provision of dedicated cycle storage facilities;
- > A SWMP will be prepared to identify ways to reduce construction waste and recycling opportunities;
- > Materials will be selected based on their environmental impact, with preference given to 'A+' or 'A' rated materials from the BRE Green Guide to Specification where possible;
- > The construction site will be registered with the Considerate Constructors Scheme;
- > Sound insulation to improve upon Building Regulations Part E for both impact and airborne noise;
- > The development will comply with the criteria set out within Section 2: Physical Security of the Secured by Design Scheme;
- > A full Home User Guide will be provided to the dwelling, covering location and operational issues.

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#### 1. INTRODUCTION

1.1 This Code for Sustainable Homes Planning Pre-Assessment Report has been prepared by Hodkinson Consultancy, a specialist energy and environmental consultancy for planning and development, appointed by LOM Architecture & Design.

# **Development Proposal**

- 1.2 The proposal for the new development includes the construction of one new 4 bedroom house with subterranean levels at 59 Maresfield Gardens in Camden, London.
- 1.3 Design measures to achieve high standards of sustainability have been included through the development and will be adopted throughout the design and construction process. These measures will ensure the in-use development is as resource efficient as possible.

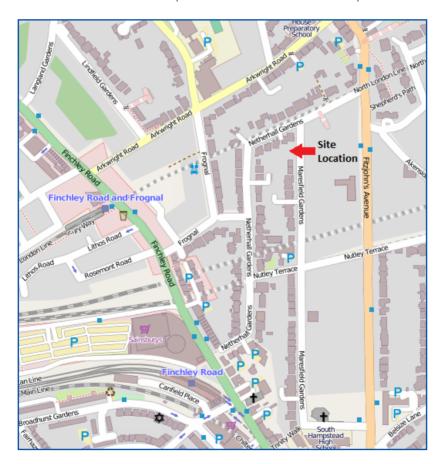


Figure 1: Site Location - @OpenStreetMap Contributors. www.openstreetmap.org/copyright



1.4 The proposed site lies within close proximity to Finchley Road and Frognal and Finchley Road stations, providing excellent transport links around London. The site will also have access to the existing bus services along Fitzjohn's Avenue, providing services throughout central and north London.

# Methodology

- The following report aims to show compliance with the London Borough of Camden's Local Plan. The report also contains information on how the scheme will adopt the national environmental assessment method of the Code for Sustainable Homes and how it meets Code Level 4.
- **1.6** Appended to the report is the following:
  - > Appendix 1 Code for Sustainable Homes Pre-assessment for 59 Maresfield Gardens showing a possible route to achieving Code Level 4.

## 2. PROJECT REQUIREMENTS

2.1 The dwelling in the proposed development will be assessed against the nationally recognised environmental assessment method of the Code for Sustainable Homes. This will involve meeting Code Level 4, as set out by the London Borough of Camden's Local Plan, which will ensure the development achieves respectable levels of sustainability.



- 2.2 Using this assessment method will ensure the development is assessed and a quantifiable output is produced by which a nationally recognised measure of sustainability can be applied. The targeted level sought by the developer will ensure a sustainable scheme is created.
- 2.3 Appendix 1 illustrates a possible route by which the development can achieve Code Level 4.

## 3. ENERGY AND CO<sub>2</sub> CONSERVATION

3.1 In accordance with the minimum requirements to achieve Code for Sustainable Homes Level 4, the development will achieve a 19% improvement over Part L 2013 Building Regulation requirements for the reduction of CO₂ emissions. This will be achieved through the adoption of sustainable design and construction principles and the application of energy efficient design measures.

- 3.2 These measures will include improved insulation standards and improved U-Values from Building Regulation standards in all of the thermal elements.
- 3.3 In addition to the above, further measures will be adopted within the detailed design of the buildings to reduce the energy load. These include:
  - > Specifying energy efficient internal lighting throughout;
  - > Providing comprehensive advice to occupants on how to operate their dwelling efficiently and effectively via a Home User Guide;
  - > Insulating all pipe work;
  - > Specifying A+ or A rated materials under the online Green Guide to Specification for the building envelope wherever practicable;
  - > Operating energy efficient external lighting with motion sensors and/or daylight cut-off devices;
  - > Where fitted, installing energy efficient white goods that meet the following specification:
    - > Fridges, freezers and fridge-freezers: A+ rated;
    - > Washing machines and dishwashers: A rated;
    - > Tumble dryers and washer-dryers: B rated.
- **3.4** Encouraging people to live and work in the same locality is central to the sustainability agenda as it reduces the need to travel and the negative externalities associated with this.
- 3.5 The concept of working from home will be promoted by the provision of internal services and infrastructure to the unit, enabling a home office to be established. This will contribute to the vibrancy of this scheme, whilst offering additional environmental benefits in terms of reduced transportation.

## 4. WATER CONSUMPTION

4.1 As a mandatory requirement for Level 3 and 4 of the Code for Sustainable Homes, internal water consumption must be less than or equal to 105 litres per person per day. This target will be met in the proposed dwelling.



- 4.2 Water efficient devices and appliances will be fully evaluated and installed, wherever possible. The specification of such devices will be considered at the detailed design stage and each will be subject to an evaluation based upon technical performance, cost and market appeal, together with compliance with the water use regulations.
- **4.3** Rainwater will be harvested using water butts installed in the garden. This will allow residents to recycle rainwater for irrigation purposes.
- 4.4 User Guides will be provided to the occupants of the house. These will provide advice and information on how to best operate the services within their dwelling. This method can be one of the most effective means to reduce use and wastage both in the short and long term.



#### 5. SUSTAINABLE MATERIALS SELECTION

- **5.1** Where feasible, the materials used in the development will be carefully sourced to ensure that environmentally friendly and low embodied energy materials are used.
- 5.2 Materials and element construction with an "A+/A" rating will be sourced where possible to enable the scheme to be as environmentally friendly as possible. These materials should be specified through the use of the Green Guide to Specification published by BRE.
- 5.3 Preference will be given to the use of local materials and suppliers where viable. This will be considered as part of the detailed design and construction process.
- Timber used on the site will be sourced from sustainable sources (FSC, PEFC etc.) where practical.

  This also includes timber used in the development phases, such as hoarding and site fencing.

## 6. REDUCED FLOOD RISK

The site will be required to comply with the mandatory requirements of the Surface Water Run-off credit in the Code for Sustainable Homes; which is to design housing developments which avoid, reduce and delay discharge of rainfall to public sewers and water courses. This will reduce the risk of localised flooding, pollution and other environmental damage.

- 6.2 A brief Flood Risk Assessment report will also be required confirming the risk of flooding from all sources of flooding, including information obtained from the Environment Agency, water company/sewerage undertaker, other relevant statutory authorities, site investigation and local knowledge.
- 6.3 The Environment Agency webpage shows the site lies in an area with a low probability of flooding.

#### 7. WASTE MANAGEMENT

### **Household Waste**

- **7.1** The design will provide for a domestic waste storage and recycling strategy that complements the existing collection arrangements operated by London Borough of Camden.
- As a mandatory Code for Sustainable Homes requirement, adequate external waste storage will be provided for both recyclable and non-recyclable waste. The volume of waste storage will be the largest of the following two volumes; the minimum volume recommended by the British Standard BS5906 or the total volume of external waste containers provided by the Local Authority.
- **7.3** Adequate internal storage containers for household recycling will also be provided within the dwelling, in accordance with the measures outlined in the Code for Sustainable Homes.

## **Construction Waste**

- **7.4** A site waste strategy will be implemented during the construction process that maximises the recycling and reuse of materials and minimises that which is to be despatched to landfill. The amount of wasted materials arising from construction can be reduced by using regular audits to monitor and control site activities more closely.
- **7.5** It is anticipated that at least 85% of material arising from the construction process will be diverted from landfill.



# 8. BUILDING QUALITY

## Noise

8.1 In order to reduce the likelihood of noise complaints, the dwelling will be aiming to achieve airborne sound insulation values that are at least 5dB higher, and impact sound values that are at least 5dB lower, than the performance standards outlined within the Building Regulations for England and Wales, Approved Document E.

# **Accessibility**

8.2 The dwelling will be designed to meet all of the 16 criteria under Lifetime Homes, as set out in the Code for Sustainable Homes requirements. This will meet policy DP6 of the London Borough of Camden's Development Policies, where all housing should be designed to meet the Lifetime Homes criteria.



of the Building Regulations, and as part of the Code Assessment, compliance with the Inclusive Design Principles Checklist will be required. This Checklist follows guidelines which are drawn from BS 8300:2009, BS 5709:2006, BS 1703:2005, Approved Documents Part M and H.

## **Natural Systems**

- 8.4 The use of natural ventilation has been incorporated into designs wherever possible, including opening windows. Openable windows will allow natural cross ventilation, convective ventilation and night purging and will reduce the need for comfort cooling.
- 8.5 The use of natural light will be promoted, particularly in the living and dining room, with the inclusion of large glazed areas. This should enable a high level of daylighting. This will be assessed in greater detail at the design stage of the Code for Sustainable Homes.

#### 9. REDUCED CONSTRUCTION IMPACTS

- 9.1 It is anticipated that the development proposals will be registered with the Considerate Constructors Scheme. This is designed to encourage environmentally and socially considerate ways of working, to reduce any adverse impacts arising from the construction process. It will also assist in obtaining credits under the Code for Sustainable Homes. Under the Considerate Constructors Scheme, the proposed development will comply in terms of:
  - > Appearance
  - > Community
  - > Environment
  - > Safety
  - > Workforce
- 9.2 During the construction processes, control procedures will be put in place to minimise noise and dust pollution and roads will be kept clean. The management systems will generally comprise procedures and working methods that are approved by the development team together with commercial arrangements to ensure compliance.

## 10.ECOLOGICAL CONSIDERATIONS

- 10.1 The ecological value of the site is important to the sustainability agenda the lower the value, the greater the justification for development being the general rule.
- 10.2 The Applicant will commit to improving the ecological value of the site; features are likely to involve soft landscaping, including native species and species of value for wildlife. Flowering species will be preferred as these benefit invertebrate species and may provide nesting opportunities for birds.



#### 11.CONCLUSION

- 11.1 The issue of climate change and its effects will be considered throughout the design of the development. In particular, the associated effects of flood risk, drainage, and water efficiency, building structure, renewable technologies and recycling will be addressed.
- **11.2** The Code for Sustainable Homes strategy includes the following key points:
  - > A 19% reduction in CO<sub>2</sub> emissions compared with Building Regulations 2013 (Part L1A) will be achieved through a combination of energy efficiency and renewable measures;
  - > Water efficient devices will reduce internal water consumption; internal potable water usage will be less than 105 litres/person/day;
  - > The site will be registered with the Considerate Constructors Scheme;
  - > A Site Waste Management (SWMP) will be implemented and will ensure that waste is identified, minimised and managed appropriately at all stages of development;
  - > Building materials chosen in accordance with the Green Guide (three of the five key building elements must achieve rating of A+ to D);
  - > Adequately sized wheelie bins for waste and recycling to be provided to meet the mandatory Code requirements;
  - > Sound insulation to improve upon Building Regulations Part E for both impact and airborne noise;
  - > Provisions to allow for a Home Office.

## **APPENDICES**

# **Appendix A**

Code for Sustainable Homes Pre-Assessment – Code Level 4



#### Code for Sustainable Homes Pre-Assessment - 59 Maresfield Gardens, Camden



68.61	Total Predicted Score	Development Description	Completed by
Level 1 Level 2 Level 3	36 Points 48 Points 57 Points	4 Bedroom House - Code Level 4	R Schofield 09.03.15
Level 4  Level 5  Level 6	68 Points 84 Points 90 Points		09.03.15

	Issue	Credits Available	Credits Predicted	Design Assumptions Made
	ENE 1 Dwelling Emission Rate	10	3	Minimum 19% improvement in regulated CO <sub>2</sub> over Building Regulations (2013) is required to achieve Code Level 4.
	ENE 2 Fabric Energy Efficiency	9	3	To achieve 3 credits, detached houses should achieve a fabric energy efficiency of 60 kWh/m²/yr.
ions	ENE 3 Energy Display Devices	2	2	The dwelling will be provided with an Energy Display Device, capable of displaying electricity and heating consumption data.
de Emiss	ENE 4 Drying Space	1	1	Rotary drier to be provided in garden.
Energy & Carbon Dioxide Emissions	ENE 5 Energy Labelled White Goods	2	2	To achieve two credits, the following must be provided: A+ rated fridge-freezers; A rated washing machines; A rated dishwashers & EITHER, B rated tumble dryers or B rated dryers, OR, an EU Energy Efficiency Labelling Scheme leaflet provided to each dwelling. (Note: If any washing machines or dishwashers are being provided, the water consumption rates must be included in the WAT 1 Calculator (see WAT 1).
ırgy & Car	ENE 6 External Lighting	2	2	All external lighting to be energy efficient and adequately controlled.
Ene	ENE 7 Renewable Technologies	2	0	Credit not sought.
	ENE 8 Cycle Storage	2	2	Cycle storage provided for 4 cycles. Hanging system to be installed.
	ENE 9 Home Office	1	1	The services required include: 2 double power sockets; 2 telephone points; 1.8m wall length; Average Daylight Factor of 1.5%. Services to be located clustered together.
F	0.000.0			
_	nergy & CO2 Category Predicted Score	31	16	Credit Weighting - 1.17
Water		5	3	Water consumption not to exceed 105 litres/person/day. As a guidance the following should be used: - Wc: 6/3L - Wash Basin Taps: 4L/min - Shower Flow Rate: 9L/min - Bath Volume: 150L (with no displacement, i.e. figures can not include 1 person in bath) - Kitchen Taps: 4L/min - No waste disposal unit assumed - If white goods are provided they should be best practice with respect to both water use and energy efficiency (ENE5) - Dishwashers should use 1.25 Litres/place settings - Washing machines / washer dryers should use no more than 8.17 litres/kg - If they are less efficient in water use, flow rates/volumes in the other items will have to be reduced  This achieves 105 l/p/d - Any changes must be checked through the WAT1 calculator tool.
	Predicted Score			Water consumption not to exceed 105 litres/person/day. As a guidance the following should be used: - Wc: 6/3L - Wash Basin Taps: 4L/min - Shower Flow Rate: 9L/min - Bath Volume: 150L (with no displacement, i.e. figures can not include 1 person in bath) - Kitchen Taps: 4L/min - No waste disposal unit assumed - If white goods are provided they should be best practice with respect to both water use and energy efficiency (ENES) - Dishwashers should use 1.25 Litres/place settings - Washing machines / washer dryers should use no more than 8.17 litres/kg - If they are less efficient in water use, flow rates/volumes in the other items will have to be reduced
	WAT 1 Indoor Water Use	5	3	Water consumption not to exceed 105 litres/person/day. As a guidance the following should be used: - Wc: 6/3L - Wash Basin Taps: 4L/min - Shower Flow Rate: 9L/min - Bath Volume: 150L (with no displacement, i.e. figures can not include 1 person in bath) - Kitchen Taps: 4L/min - No waste disposal unit assumed - If white goods are provided they should be best practice with respect to both water use and energy efficiency (ENES) - Dishwashers should use 1.2 E Litres/place settings - Washing machines / washer dryers should use no more than 8.17 litres/kg - If they are less efficient in water use, flow rates/volumes in the other items will have to be reduced  This achieves 105 l/p/d - Any changes must be checked through the WAT1 calculator tool.
Water	WAT 1 Indoor Water Use  WAT 2 External Water Use  Water Category	5	3	Water consumption not to exceed 105 litres/person/day. As a guidance the following should be used: - WC: 6/31 Wash Basin Taps: 4L/min - Shower Flow Rate: 9L/min - Bath Yolume: 150L (with no displacement, i.e. figures can not include 1 person in bath) - Kitchen Taps: 4L/min - No waste disposal unit assumed - If white goods are provided they should be best practice with respect to both water use and energy efficiency (ENES) - Dishwashers should use 1.25 Litres/place settings - Washing machines / washer dryers should use no more than 8.17 litres/kg - If they are less efficient in water use, flow rates/volumes in the other items will have to be reduced  This achieves 105 l/p/d - Any changes must be checked through the WAT1 calculator tool.
	WAT 1 Indoor Water Use  WAT 2 External Water Use  Water Category Predicted Score  MAT 1 Environmental Impact of	5 1 6	3 1 4	Water consumption not to exceed 105 litres/person/day. As a guidance the following should be used: -Wc: 6/3L -Wash Basin Taps: 4L/min -Bash Volume: 150L (with no displacement, i.e. figures can not include 1 person in bath) -Kitchen Taps: 4L/min -No waste disposal unit assumed -If white goods are provided they should be best practice with respect to both water use and energy efficiency (ENE5) -Dishwashers should use 1.25 Litres/place settings -Washing machines / washer dryers should use no more than 8.17 litres/kg -If they are less efficient in water use, flow rates/volumes in the other items will have to be reduced  This achieves 105 l/p/d - Any changes must be checked through the WAT1 calculator tool.  Credit Weighting - 1.5  A+ to D rated materials should be chosen in accordance with the Green Guide, with a number of the main building elements having a low environmental impact.  The following materials have the ability to be sourced from sustainable sources: Brick; Tiles; Resin based composite material; Concrete; Glass;
Water	WAT 1 Indoor Water Use  WAT 2 External Water Use  Water Category Predicted Score  MAT 1 Environmental Impact of Materials  MAT 2 Responsible Sourcing of Materials - Basic Building	5 1 6 15	3 1 4 10	Water consumption not to exceed 105 litres/person/day.  As a guidance the following should be used: - WC: 6/31 Wash Basin Taps: 41/min - Shower Flow Rate: 91/min - Bath Volume: 150L (with no displacement, i.e. figures can not include 1 person in bath) - Kitchen Taps: 41/min - No waste disposal unit assumed - If white goods are provided they should be best practice with respect to both water use and energy efficiency (ENE5) - Dishwashers should use 1.25 Litres/place settings - Washing machines / washer dryers should use no more than 8.17 litres/kg - If they are less efficient in water use, flow rates/volumes in the other items will have to be reduced  This achieves 105 l/p/d - Any changes must be checked through the WAT1 calculator tool.  Credit Weighting - 1.5  A+ to D rated materials should be chosen in accordance with the Green Guide, with a number of the main building elements having a low environmental impact.



	Issue	Credits Available	Credits Predicted	Design Assumptions Made
Surface Water Run-off	<b>SUR 1</b> Management of surface water run-off from developments	2	0	Drainage Consultant to complete SUR1 template to achieve the following MANDATORY requirements:  1) Peak rate of run-off is not higher post-development than pre-development for both a 1 year and 100 year return period events. If there is additional volume then the following must apply - 2) then 3) below:  2) Reduce predicted volume to zero by retaining on site and managing using infiltration of other appropriate SUDS techniques - if this can not be met then 3) applies:  3) Reduce the site's peak rate of run-off to Qbar or 2 l/s/ha whichever it the higher flow rate.  4) System designed for system failure, with evidence showing that a property will not flood from system failure.  Credits can be awarded for the following:  - One credit can be awarded by ensuring there is no discharge from the developed site for rainfall depths up to 5mm.  - One credit can be awarded by ensuring that the run-off from all hard surfaces shall receive an appropriate level of treatment in accordance with The SUDS Manual best practice recommendations should be followed where there is a risk to groundwater from infiltration (for example contaminated land, developments with high risk of pollution incidents).
	SUR 2 Flood Risk	2	2	A brief Flood Risk Assessment report is to be carried out which confirms the risk of flooding from all sources of flooding, including information from the Environment Agency, water company/sewerage undertaker, other relevant statutory authorities, site investigation and local knowledge.
	urface Water Run-off egory Predicted Score	4	2	Credit Weighting - 0.55
	WAS 1 Storage of non-recyclable waste & recyclable household waste	4	4	Adequate space must be provided to accommodate refuse bins sized to LA requirements, or BS5906 (whichever is greater), located on hardstanding and covered.  Internal provisions for the storage of recyclable material must also be provided, with an overall capacity of at least 30L in a dedicated position.  Extensive new Checksheet required to be completed to show wheelchair accessibility for WAS1, WAS3 and HEA3 - Checklist IDP - Inclusive Design Principles necessary to provide access and usability to amenities. This has been drawn from LTH, BS8300, BSS709, BS1703, Part M and Part H.
Waste	<b>WAS 2</b> Construction Site Waste Management	3	3	Site Waste Management Plan to be developed which contains the following:  - Target benchmarks for resource efficiency set in accordance with best practice.  - Procedures and commitments to minimise non-hazardous waste at design stage. Specify waste minimisation actions relating to at least 3 waste groups and support them by appropriate monitoring of waste.  - Procedures for minimising hazardous waste.  - Monitoring, measuring and reporting of hazardous and non-hazardous site waste production according to the defined waste groups (according to the waste streams generated by the scope of the works).  Diverting Waste from Landfill: Where there is a compliant Site Waste Management Plan (SWMP) including procedures and commitments to sort and divert waste from landfill, through either;  - Re-use on site (in situ for new applications)  - Re-use on other sites  - Salvage/reclaim for re-use  - Return to the supplier via a 'take-back' scheme  - Recovery and recycling using an approved waste management contractor  - Compost  - Compost  - Compost of the defined waste groups (in line with the waste streams generated by the scope of the works).
	WAS 3 Composting	1	1	Camden provide both food and garden recycling.
	Waste Category Predicted Score	8	8	Credit Weighting - 0.8
Pollution	POL 1 Global Warming Potential (GWP) of Insulants	1	1	All insulation to have a GWP of less than 5.
Poll	POL 2 NO <sub>x</sub> Emissions	3	0	GSHP to be installed. No credits achieved.
	Pollution Category Predicted Score	4	1	Credit Weighting - 0.7

2



	Issue	Credits Available	Credits Predicted	Design Assumptions Made
	<b>HEA 1</b> Daylighting	3	3	3 credits should be sought with all kitchens passing the required 2% daylighting factor, and all living, dining and home office rooms achieving a daylighting factor of at least 1.5%.
Health & Wellbeing	HEA 2 Sound Insulation	4	3	Credit awarded by default as the property is detached.
Health & \	<b>HEA 3</b> Private Space	1	1	Adequately sized external private space. Must also be accessible and compliant to the IDP Checklist.
	<b>HEA 4</b> Lifetime Homes	4	4	All 16 requirements of the Lifetime Homes to be included.
	Health & Wellbeing egory Predicted Score	12	11	Credit Weighting - 1.16
Management	MAN 1 Home User Guide (HUG)	3	3	A Home User Guide will be provided detailing information relating to the technical and operational performance of the home.  The following provides a list of the type of information that should be included in the Home User Guide - further detailed information is required to meet the full requirements of the HUG.  Part 1 - Operational Issues The list below indicates the type of information that should be included a. Environmental strategy/design and features b. Energy c. Water Use d. Recycling and Waste e. Sustainable DIY f. Emergency Information g. Links, References and Further Information h. Provision of Information in Alternative Formats  Part 2 - Site and Surroundings The list below indicates the type of information that should be included a. Recycling and Waste b. Sustainable (Urban) Drainage Systems (SUDS) c. Public Transport d. Local amenities e. Responsible Purchasing f. Emergency Information g. Links, References and Further Information.
-	MAN 2 Considerate Constructors Scheme  MAN 3	2	2	The Considerate Constructors Scheme will be signed up to and there will be a commitment to achieve a CCS score of 35+. Scores in each section within the CCS will be equal or greater than 7.  The development should monitor and reduce construction site impacts to reduce the affect of construction on the local area. This can involve
	Construction Site Impacts	2	2	the limiting of air and water pollution in accordance with best practice principles, as well as the recording, monitoring and displaying of energy and water use from site activities during construction.
	MAN 4 Security	2	2	An Architectural Liaison Officer (ALO) will be appointed to provide advice that will inform the design and ensure that the dwellings meet all aspects of Section 2 - Physical Security of Secured by Design - New Homes.
Ма	anagement Category Predicted Score	9	9	Credit Weighting - 1.11
	ECO 1 Ecological Value of Site	1	1	The land appears to be of low ecological value.
	ECO 2 Ecological Enhancement	1	0	Credit not sought.
Ecology	ECO 3 Protection of Ecological Features	1	1	The land appears to be of low ecological value.
	ECO 4 Change of Ecological Value of Site	4	2	A neutral change between -3 and +3 is expected.
	ECO 5 Building Footprint	2	2	Net internal floor area: net internal ground floor area ratio is greater than or equal to 3:1
	Ecology Category Predicted Score	9	6	Credit Weighting - 1.33

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