



TECHNICAL NOTE

Date: 2nd November 2022

File Ref: AK/VL/P20-2140/04TN Rev A

Subject: Sustainability Checklist – Supporting Statement TN

1.0 INTRODUCTION

1.1 This Technical Note has been prepared to support the Sustainability Checklist prepared for the proposed new hall extension to the existing Hampton Pre-prep School.

2.0 SUSTAINABILITY CHECKLIST

2.1 The Sustainability Checklist prepared for the site shows a score of 51.5, which falls under the rating C of the scoring table.

2.2 This rating reflects the fact that the majority of the development comprises an existing school building, where the reduction of energy demand for space heating below 15kWh/m² is unachievable. The existing building will not undergo a deep renovation at this time due to time-constraints, posed by the operation of the school building and the possible improvement works on the existing building being limited to school holidays. Some less intrusive improvement measures will be incorporated into the building (loft insulation, installation of draft excluders, replacement of all inefficient light bulbs with LED luminaires, TRVs fitted to radiators, where possible).

2.3 An alternative checklist has been prepared covering only the hall extension. This extension will be constructed to meet and exceed the requirements of the current Building Regulations Part L (2021), maximising energy efficiency of the development and utilising low and zero carbon technologies (ASHP and PVs). The application of the proposed energy efficient design elements helps the extension achieve carbon emission reductions of 180%. The Sustainability Checklist score for the hall extension reaches 57.5 helping to significantly improve the borough's stock of sustainable development.

- 2.4 A BREEAM Pre-assessment has not been prepared for the development as, according to the Local Plan Policy LP22, it is only required for new non-residential buildings. Extensions to non-residential buildings are not covered in the planning policy and, therefore, it is concluded that the pre-assessment is not needed for this development.
- 2.5 The Checklists appended to this Technical Note present a robust scoring of the development taking all site constraints into consideration.

3.0 SUMMARY

- 3.1 The London Borough of Richmond-upon-Thames Planning Policy LP22 requirements are met for the proposed development with regards to resource efficient design.
- 3.2 The Sustainability Checklists appended to this Technical Note demonstrate how the design will holistically incorporate sustainable principles into the full range of sustainability aspects covered by the local planning documents relating to energy, climate change, water, pollution, sustainable construction processes/materials & recycling, land use & ecology and sustainable transport.

Note By: Alicja Kreglewska, MSc, OCDEA, DEA, NDEA

Approved By: Alex Giles, Bsc (Hons)

Appendices:

- A Sustainability Checklist – Whole development
- B Sustainability Checklist – Hall Extension only

APPENDICES

APPENDIX A

LBRUT Sustainable Construction Checklist - June 2020

01/11/2022

This document forms part of the Sustainable Construction Checklist SPD. This document **must** be filled out as part of the planning application for the following developments: all residential development providing **one or more new residential units (including conversions leading to one or more new units)**, and all other forms of development providing **100sqm or more of non-residential floor space**. Developments including new non-residential development of less than 100sqm floor space, extensions less than 100sqm, and other conversions are strongly encouraged to comply with this checklist. Where further information is requested, please either fill in the relevant section, or refer to the document where this information may be found in detail, e.g. Flood Risk Assessment or similar. **Further guidance** on completing the Checklist may be found in the Justification and Guidance section of this SPD.

Property Name (if relevant): Application No. (if known):

Address (include. postcode):

Completed by:

For Non-Residential Size of development (m2) For Residential Number of dwellings

1 MINIMUM COMPLIANCE (RESIDENTIAL AND NON-RESIDENTIAL)

Energy Assessment
 Has an energy assessment been submitted that demonstrates the expected energy and carbon dioxide emissions saving from energy efficiency and renewable energy measures, including the feasibility of CHP/CCHP and community heating systems? If yes, please select TRUE.

Carbon Dioxide emissions reduction
 What is the on site carbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline
Policy LP 22 B. and Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO₂ emissions beyond Building Regulations 2013. %

What is the percentage reduction from efficiency measures alone
Policy LP 22 C. and Draft London Plan Policy 9.2.6 require a 10% onsite reduction in CO₂ emissions beyond Building Regulations 2013 from efficiency measures for residential and 15% for non-residential. %

Percentage of **total** site CO₂ emissions saved through renewable energy installation? %

What is the total remaining carbon to be offset
Policy LP 22 B. and Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting. Tonne

Are remaining emissions going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO₂?

What is the total predicted cost of offset?
The London Plan sets this as £95/tonne per year over 30 years, this should be updated based on As Build calculations. £

1A MINIMUM POLICY COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)

Please check the Guidance Section of this SPD for the policy requirements

Environmental Rating of development:

Non-Residential new-build (100sqm or more) BREEAM Level <input type="text" value="Please Select"/> <i>Excellent required under Policy LP22 A 3</i>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>
Extensions and conversions for residential dwellings BREEAM Domestic Refurbishment <input type="text" value="Please Select"/> <i>Excellent required under Policy LP22 A 4</i>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>
Extensions and conversions for non-residential buildings BREEAM Level <input type="text" value="Please Select"/> <i>Excellent required under Policy LP 22</i>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>

Score awarded for Environmental Rating: Subtotal
 BREEAM: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16

1B MINIMUM POLICY COMPLIANCE (RESIDENTIAL)

Water Usage Score

Internal water usage after gray/rainwater systems limited to 105 litres person per day. (Excluding an allowance 5 litres per person per day for external water consumption). Calculations using the water efficiency calculator for new dwellings have been submitted.
110l/p/d Required for new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Policy SI5

Subtotal

2. ENERGY USE AND POLLUTION

2.1 Need for Cooling

	Score	
a. How does the development incorporate cooling measures? Tick all that apply:		
Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm	6	FALSE
Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
Reduce heat entering a building through shading	3	TRUE
Exposed thermal mass and high ceilings	4	TRUE
Passive ventilation	3	TRUE
Mechanical ventilation with heat recovery	1	TRUE
Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
<i>See Draft London Plan SI4</i>		

2.2 Heat Generation

	Score	
b. How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy SI3) Tick all heating and cooling systems that will be used in the development:		
Connection to existing heating or cooling networks powered by renewable energy	6	FALSE
Connection to existing heating or cooling networks powered by gas or electricity	5	FALSE
Site wide CHP network powered by renewable energy	4	FALSE
Site wide CHP network powered by gas	3	FALSE
Communal heating and cooling powered by renewable energy	2	FALSE
Communal heating and cooling powered by gas or electricity	1	FALSE
Individual heating and cooling	0	TRUE
<i>See Draft London Plan SI3</i>		

2.3 Pollution: Air, Noise and Light

a. Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
b. Does the development plan to include a biomass boiler? If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found on the Richmond website.		FALSE
c. Has an air quality impact assessment been provided If yes, has 'Emissions Neutral' been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	1 1 1 -1	FALSE FALSE FALSE TRUE
<i>see Policy LP 10</i>		
d. Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	3 1	TRUE TRUE
<i>see Policy LP 10</i>		
e. Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? <i>see Policy LP 10</i>	3	TRUE
f. Have you attached a Lighting Pollution Report?	-	

Subtotal 21

Please give any additional relevant comments to the Energy Use and Pollution Section below

Measures have been recommended to mitigate noise generation for the proposed development, please refer to the pre-prep Acoustic Report for further information. The proposal decreases slightly the noise impact from indoor activities on the neighbouring receptors.

The proposal has been assessed against the latest version of Part L (2021) and the requirements relating to fabric and systems efficiencies included in the revised Approved Document have been applied to the development. A highly optimised energy strategy based on passive design, building fabric performance and building services systems and controls as well as installation of ASHP and PV system will allow the scheme to achieve an improvement over the baseline scenario of over 100% for the new part of the development and over 3% site-wide. Please refer to the Energy Statement for further information. The proposed new hall extension will score 27 points under this section if assessed separately (please refer to an alternative checklist prepared for the hall extension).

BREEAM is not required for extensions to non-residential buildings. Planning Policy LP22 states that: New non-residential buildings over 100sqm will be required to meet BREEAM 'Excellent' standard. The proposed extension is not a stand-alone building and as such cannot be treated as new development.

3. TRANSPORT

3.1 Provision for the safe efficient and sustainable movement of people and goods

a. Does your development provide opportunities for occupants to use innovative travel technologies?

FALSE

Please explain:

Score

b. Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered?

2

FALSE

c. **For major developments ONLY:** Has a Transport Assessment been produced for your development based on TfL's Best Practice Guidance? If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist.

5

FALSE

See policy LP44

d. **For smaller developments ONLY:** Have you provided a Transport Statement?

5

TRUE

e. Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)

2

FALSE

If so, for how many bicycles?
Is this shown on the site plans?

FALSE

See Local Plan Appendix 3

f. Will the development create or improve links with local and wider transport networks? If yes, please provide details.

2

FALSE

Subtotal 5

Please give any additional relevant comments to the Transport Section below

The proposed development will generate an additional 200 sq m of floorspace, however the development proposal will not result in any increase in pupils, staff numbers or car parking and therefore there is no such increase in vehicle or other operational transport movement. There is no car parking provision. Please refer to the Transport Statement for further details.

4 BIODIVERSITY			
4.1 Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and people			
a.	Does your development involve the loss of an ecological feature or habitat, including a loss of garden or other green space? (Indicate if yes) If so, please state how much in sqm?	-2 [] sqm	FALSE
b.	Does your development involve the removal of any tree(s)? (Indicate if yes) If so, has a tree report been provided in support of your application? (Indicate if yes)		FALSE TRUE
c.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)		FALSE
d.	Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:		
	Pond, reedbed or extensive native planting	6	Area provided: [] sqm
	An extensive green roof	5	Area provided: [60] sqm
	An intensive green roof	4	Area provided: [] sqm
	Garden space	4	Area provided: [] sqm
	Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided: [] sqm
	Additional planting to peripheral areas	2	Area provided: [] sqm
	A living wall	2	Area provided: [] sqm
	Bat boxes	0.5	
	Bird boxes	0.5	
	Swift boxes	0.5	
	Other	0.5	
e.	Does your development use at least 70% of available roof plate as green/brown roof <i>Policy LP 17 requires 70%</i>	1	Please Select:
		Subtotal	14.5

Please give any additional relevant comments to the Biodiversity Section below

The tree survey included seven trees, two hedges, five areas of shrub planting and the findings of the Arboricultural Assessment conclude that the proposal will not require the removal of any trees. Please refer to the Arboricultural Assessment for further infomation.
Green roofs under the PVs will be considered, pending the confirmation of the modular build designer.

5 FLOODING AND DRAINAGE			
5.1 Mitigating the risks of flooding and other impacts of climate change in the borough			
a.	Is your site located in a high flood risk zone (Zone 3)? (Indicate if yes)	-2	FALSE
	Have you submitted a Flood Risk Assessment? (Indicate if yes)		FALSE
b.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)		
	Store rainwater for later use	5	TRUE
	Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	3	FALSE
	Attenuate rainwater in ponds or open water features	4	FALSE
	Store rainwater in tanks for gradual release to a watercourse	3	FALSE
	Discharge rainwater directly to watercourse	2	FALSE
	Discharge rainwater to surface water drain	1	TRUE
	Discharge rainwater to combined sewer	0	FALSE
	Have you submitted a Drainage Statement (Indicate if yes)		FALSE
	<i>See Policy LP 21 and Draft London Plan SL 13</i>		
c.	Please give the change in area of permeable surfacing which will result from your development proposal: <input type="text"/> sqm		
	Please provide details of the permeable surfacing below <i>please represent a loss in permeable area as a negative number</i>		
		Subtotal	6
Please give any additional relevant comments to the Flooding and Drainage Section below			
<input type="text"/>			

6 IMPROVING RESOURCE EFFICIENCY			
6.1 Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling			
a.	Will demolition be required on your site prior to construction? <i>[Points will only be awarded if 10% or greater of demolition waste is reused/recycled]</i>	1	TRUE
	If so, what percentage of demolition waste will be reused in the new development? <input type="text"/> %		
	What percentage of demolition waste will be recycled? <input type="text"/> %		
b.	Does your site have any contaminated land?	1	FALSE
	Have you submitted an assessment of the site contamination?	2	FALSE
	Are plans in place to remediate the contamination?	2	FALSE
	Have you submitted a remediation plan?	1	FALSE
	Are plans in place to include composting on site?	1	FALSE
c.	Will a waste management plan and facilities be in place in line with Policy LP24		<input type="text" value="yes"/>
6.2 Reducing levels of water waste			
a.	Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):		
	Fitting of water efficient taps, shower heads etc	1	TRUE
	Use of water efficient A or B rated appliances	1	TRUE
	Rainwater harvesting for internal use	4	FALSE
	Greywater systems	4	FALSE
	Fit a water meter	1	TRUE
		Subtotal	3
Please give any additional relevant comments to the Improving Resource Efficiency Section below			
<input type="text"/>			

7 ACCESSIBILITY

7.1 Ensure flexible adaptable and long-term use of structures

a. **If the development is residential**, will it meet the requirements of the nationally described space standard for internal space and layout? 1 Please Select:
 If the standards are not met, in the space below, please provide details of the functionality of the internal space and layout

AND

b. **If the development is residential**, will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'? 2 Please Select:
 If this is not met, in the space below, please provide details of any accessibility measures included in the development.

For major residential developments, are 10% or more of the units in the development to Building Regulation Requirement M4 (3) 'wheelchair user dwellings'? 1 Please Select:

OR

c. **If the development is non-residential**, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45 2 TRUE
 Please provide details of the accessibility measures specified in the Local Plan that will be included in the development

The development is located within close proximity (500m or less) to a train station, bus stops, convenience shops and pharmacy.

Subtotal 2

Please give any additional relevant comments to the Design Standards and Accessibility Section below

LBRUT Sustainable Construction Checklist- Scoring Matrix for New Construction (Non-Residential and domestic refurb)

TOTAL 51.5

Score	Rating	Significance
84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development
75-83	A	Makes a major contribution towards achieving sustainable development in Richmond
56-74	B	Helps to significantly improve the Borough's stock of sustainable developments
40-55	C	Minimal effort to increase sustainability beyond general compliance
39 or less	FAIL	Does not comply with SPD Policy

LBRUT Sustainable Construction Checklist- Scoring Matrix for New Construction Residential new-build

Score	Rating	Significance
85 or more	A++	Project strives to achieve highest standard in energy efficient sustainable development
68-84	A+	Project strives to achieve higher standard in energy efficient sustainable development
59-67	A	Makes a major contribution towards achieving sustainable development in Richmond
39-58	B	Helps to significantly improve the Borough's stock of sustainable developments
24-38	C	Minimal effort to increase sustainability beyond general compliance
23 or less	FAIL	Does not comply with SPD Policy

Authorisation:

I herewith declare that I have filled in this form to the best of my knowledge

Signature Sheglenko Date 01/11/2022

APPENDIX B

LBRUT Sustainable Construction Checklist - June 2020

This document forms part of the Sustainable Construction Checklist SPD. This document **must** be filled out as part of the planning application for the following developments: all residential development providing **one or more new residential units (including conversions leading to one or more new units)**, and all other forms of development providing **100sqm or more of non-residential floor space**. Developments including new non-residential development of less than 100sqm floor space, extensions less than 100sqm, and other conversions are strongly encouraged to comply with this checklist. Where further information is requested, please either fill in the relevant section, or refer to the document where this information may be found in detail, e.g. Flood Risk Assessment or similar. **Further guidance** on completing the Checklist may be found in the Justification and Guidance section of this SPD.

Property Name (if relevant): Application No. (if known):

Address (include. postcode):
 Completed by:

For Non-Residential Size of development (m2) For Residential Number of dwellings

1 MINIMUM COMPLIANCE (RESIDENTIAL AND NON-RESIDENTIAL)

Energy Assessment
 Has an energy assessment been submitted that demonstrates the expected energy and carbon dioxide emissions saving from energy efficiency and renewable energy measures, including the feasibility of CHP/CCHP and community heating systems? If yes, please select TRUE.

Carbon Dioxide emissions reduction
 What is the on site carbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline %
Policy LP 22 B. and Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO₂ emissions beyond Building Regulations 2013.

What is the percentage reduction from efficiency measures alone %
Policy LP 22 C. and Draft London Plan Policy 9.2.6 require a 10% onsite reduction in CO₂ emissions beyond Building Regulations 2013 from efficiency measures for residential and 15% for non-residential.

Percentage of **total** site CO₂ emissions saved through renewable energy installation? %

What is the total remaining carbon to be offset Tonne
Policy LP 22 B. and Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting.

Are remaining emissions going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO₂?

What is the total predicted cost of offset? £
The London Plan sets this as £95/tonne per year over 30 years, this should be updated based on As Build calculations.

1A MINIMUM POLICY COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)

Please check the Guidance Section of this SPD for the policy requirements

Environmental Rating of development:

Non-Residential new-build (100sqm or more) BREEAM Level <input type="text" value="Please Select"/> <i>Excellent required under Policy LP22 A 3</i>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>
Extensions and conversions for residential dwellings BREEAM Domestic Refurbishment <input type="text" value="Please Select"/> <i>Excellent required under Policy LP22 A 4</i>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>
Extensions and conversions for non-residential buildings BREEAM Level <input type="text" value="Please Select"/> <i>Excellent required under Policy LP 22</i>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>

Score awarded for Environmental Rating: Subtotal
 BREEAM: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16

1B MINIMUM POLICY COMPLIANCE (RESIDENTIAL)

Water Usage
 Internal water usage after gray/rainwater systems limited to 105 litres person per day. (Excluding an allowance 5 litres per person per day for external water consumption). Calculations using the water efficiency calculator for new dwellings have been submitted. Score
110l/p/d Required for new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Policy SI5

Subtotal

2. ENERGY USE AND POLLUTION

2.1 Need for Cooling

	Score	
a. How does the development incorporate cooling measures? Tick all that apply:		
Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm	6	TRUE
Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
Reduce heat entering a building through shading	3	TRUE
Exposed thermal mass and high ceilings	4	TRUE
Passive ventilation	3	TRUE
Mechanical ventilation with heat recovery	1	TRUE
Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
<i>See Draft London Plan SI4</i>		

2.2 Heat Generation

b. How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy SI3) Tick all heating and cooling systems that will be used in the development:	Score	
Connection to existing heating or cooling networks powered by renewable energy	6	FALSE
Connection to existing heating or cooling networks powered by gas or electricity	5	FALSE
Site wide CHP network powered by renewable energy	4	FALSE
Site wide CHP network powered by gas	3	FALSE
Communal heating and cooling powered by renewable energy	2	FALSE
Communal heating and cooling powered by gas or electricity	1	FALSE
Individual heating and cooling	0	TRUE
<i>See Draft London Plan SI3</i>		

2.3 Pollution: Air, Noise and Light

a. Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
b. Does the development plan to include a biomass boiler?		FALSE
If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found on the Richmond website.		
c. Has an air quality impact assessment been provided		FALSE
If yes, has 'Emissions Neutral' been achieved	1	FALSE
If yes, have occupants of new development been protected from existing pollution	1	FALSE
If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	TRUE
<i>see Policy LP 10</i>		
d. Please tick only one option below		
Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3	TRUE
Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	TRUE
<i>see Policy LP 10</i>		
e. Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	TRUE
<i>see Policy LP 10</i>		
f. Have you attached a Lighting Pollution Report?	-	

Subtotal 27

Please give any additional relevant comments to the Energy Use and Pollution Section below

Measures have been recommended to mitigate noise generation for the proposed development, please refer to the pre-prep Acoustic Report for further information.

The proposal has been assessed against the latest version of Part L (2021) and the requirements relating to fabric and systems efficiencies included in the revised Approved Document have been applied to the development. The improvement over the Be Lean scenario are lower as the development has been assessed against the latest version of Part L 2021. A highly optimised energy strategy based on passive design, building fabric performance and building services systems and controls as well as installation of ASHP and 8 kWp PV system will allow the scheme to achieve an improvement over the baseline scenario of over 100% for the new part of the development and over 3% site-wide. Please refer to the Energy Statement for further information.

BREEAM is not required for extensions to non-residential buildings. Planning Policy LP22 states that: New non-residential buildings over 100sqm will be required to meet BREEAM 'Excellent' standard. The proposed extension is not a stand-alone building and as such cannot be treated as new development.

3. TRANSPORT

3.1 Provision for the safe efficient and sustainable movement of people and goods

a. Does your development provide opportunities for occupants to use innovative travel technologies?

FALSE

Please explain:

Score

b. Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered?

2

FALSE

c. **For major developments ONLY:** Has a Transport Assessment been produced for your development based on TfL's Best Practice Guidance? If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist.

5

FALSE

See policy LP44

d. **For smaller developments ONLY:** Have you provided a Transport Statement?

5

TRUE

e. Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles?

2

FALSE

Is this shown on the site plans?

FALSE

See Local Plan Appendix 3

f. Will the development create or improve links with local and wider transport networks? If yes, please provide details.

2

FALSE

Subtotal 5

Please give any additional relevant comments to the Transport Section below

The proposed development will generate an additional 200 sq m of floorspace, however the development proposal will not result in any increase in pupils, staff numbers or car parking and therefore there is no such increase in vehicle or other operational transport movement. There is no car parking provision. Please refer to the Transport Statement for further details.

4 BIODIVERSITY

4.1 Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and people

a.	Does your development involve the loss of an ecological feature or habitat, including a loss of garden or other green space? (Indicate if yes) If so, please state how much in sqm?	-2 <input type="text" value=""/>	sqm	<input type="checkbox"/> FALSE <input type="checkbox"/> TRUE
b.	Does your development involve the removal of any tree(s)? (Indicate if yes) If so, has a tree report been provided in support of your application? (Indicate if yes)			<input type="checkbox"/> FALSE <input type="checkbox"/> TRUE
c.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)			<input type="checkbox"/> FALSE
d.	Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:			
	Pond, reedbed or extensive native planting	6	Area provided:	<input type="checkbox"/> FALSE
	An extensive green roof	5	Area provided:	<input type="checkbox"/> TRUE
	An intensive green roof	4	Area provided:	<input type="checkbox"/> FALSE
	Garden space	4	Area provided:	<input type="checkbox"/> TRUE
	Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:	<input type="checkbox"/> TRUE
	Additional planting to peripheral areas	2	Area provided:	<input type="checkbox"/> TRUE
	A living wall	2	Area provided:	<input type="checkbox"/> FALSE
	Bat boxes	0.5	Area provided:	<input type="checkbox"/> FALSE
	Bird boxes	0.5	Area provided:	<input type="checkbox"/> TRUE
	Swift boxes	0.5	Area provided:	<input type="checkbox"/> FALSE
	Other	0.5	Area provided:	<input type="checkbox"/> FALSE
e.	Does your development use at least 70% of available roof plate as green/brown roof <i>Policy LP 17 requires 70%</i>	1		<input type="checkbox"/> FALSE

Subtotal

Please give any additional relevant comments to the Biodiversity Section below

The tree survey included seven trees, two hedges, five areas of shrub planting and the findings of the Arboricultural Assessment conclude that the proposal will not require the removal of any trees. Please refer to the Arboricultural Assessment for further information.

5 FLOODING AND DRAINAGE

5.1 Mitigating the risks of flooding and other impacts of climate change in the borough

a.	Is your site located in a high flood risk zone (Zone 3)? (Indicate if yes)	-2	<input type="checkbox"/> FALSE
	Have you submitted a Flood Risk Assessment? (Indicate if yes)		<input type="checkbox"/> FALSE
b.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)		
	Store rainwater for later use	5	<input type="checkbox"/> TRUE
	Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	3	<input type="checkbox"/> FALSE
	Attenuate rainwater in ponds or open water features	4	<input type="checkbox"/> FALSE
	Store rainwater in tanks for gradual release to a watercourse	3	<input type="checkbox"/> FALSE
	Discharge rainwater directly to watercourse	2	<input type="checkbox"/> FALSE
	Discharge rainwater to surface water drain	1	<input type="checkbox"/> TRUE
	Discharge rainwater to combined sewer	0	<input type="checkbox"/> FALSE
	Have you submitted a Drainage Statement (Indicate if yes)		<input type="checkbox"/> FALSE
	<i>See Policy LP 21 and Draft London Plan SL 13</i>		
c.	Please give the change in area of permeable surfacing which will result from your development proposal: Please provide details of the permeable surfacing below	<input type="text" value=""/>	
		sqm	
		<i>please represent a loss in permeable area as a negative number</i>	

Subtotal

Please give any additional relevant comments to the Flooding and Drainage Section below

Site is locate in low flood risk zone as identified on the government website. Rainwater butts for garden irrigation will be provided. Further SUDS techniques will be explored when the design develops.

6 IMPROVING RESOURCE EFFICIENCY

6.1 Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling

a.	Will demolition be required on your site prior to construction? <i>[Points will only be awarded if 10% or greater of demolition waste is reused/recycled]</i>	1	<input type="checkbox"/> TRUE
	If so, what percentage of demolition waste will be reused in the new development?	<input type="text" value=""/>	%
	What percentage of demolition waste will be recycled?	<input type="text" value=""/>	%
b.	Does your site have any contaminated land?	1	<input type="checkbox"/> FALSE
	Have you submitted an assessment of the site contamination?	2	<input type="checkbox"/> FALSE
	Are plans in place to remediate the contamination?	2	<input type="checkbox"/> FALSE
	Have you submitted a remediation plan?	1	<input type="checkbox"/> FALSE
	Are plans in place to include composting on site?	1	<input type="checkbox"/> FALSE
c.	Will a waste management plan and facilities be in place in line with Policy LP24	<input type="text" value="yes"/>	

6.2 Reducing levels of water waste

a.	Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):		
	Fitting of water efficient taps, shower heads etc	1	<input type="checkbox"/> TRUE
	Use of water efficient A or B rated appliances	1	<input type="checkbox"/> TRUE
	Rainwater harvesting for internal use	4	<input type="checkbox"/> FALSE
	Greywater systems	4	<input type="checkbox"/> FALSE
	Fit a water meter	1	<input type="checkbox"/> TRUE

Subtotal

Please give any additional relevant comments to the Improving Resource Efficiency Section below

