Land Use and Ecology

The following table summarises the credits awarded for this section.

The Code Credit Reference	Number of Credits Achieved	Number of Credits Available
LE 1 - Re use of land	1	1
LE 2 - Contaminated land	0	1
LE 3 - Ecological value of land and protection of ecological features	1	1
LE 4 - Mitigating ecological impact	2	2
LE 5 - Enhancing site ecology	0	3
LE 6 - Long term impact on biodiversity	0	2
TOTAL CREDITS	4	10

LE1 Re use of land

1 of 1 credits achieved

Credit criteria

One credit where evidence provided demonstrates that the majority of the footprint of the proposed development falls within the boundary of previously developed land.

Credit validation

Development on previously developed site

Credit references

Assumption based on drawings provided by Ramsden and Partners.

Further information/action

At least 75% of the proposed development's footprint is on an area of land which has previously been developed for use by industrial, commercial or domestic purposes in the last 50 years.

It is required to provide details of previous land use e.g. maps, reports and site photographs.

LE2 Contaminated land

0 of 1 credits achieved

Credit criteria

One credit where evidence provided demonstrates that the land used for the new development has, prior to development, been defined as contaminated, and where adequate remedial steps have been taken to decontaminate the site prior to construction.

Credit validation

The site was considered not to be contaminated prior to development.

Credit references

Assumption by Lugus Engineering.

Further information/action

Should site have been contaminated prior to its development, and adequate remedial steps have been taken, evidence must be provided to award credit.

Evidence should contain:

- A report defining the site as contaminated
- Contract documents or letters of appointment detailing the requirement/commitment to implement the necessary remedial steps identified in the report

LE3 Ecological value of land and protection of ecological features

1 of 1 credits achieved

Credit criteria

One credit where evidence provided demonstrates that the construction zone is defined as land of low ecological value and all existing features of ecological value will be fully protected from damage during site preparation and construction works.

Credit validation

Land is of low ecological value

Credit references

Assumption based on information obtained from Camden Council Website.

Further information/action

In order to award the credit it is required that a suitably qualified Ecological Consultant identifies the land as being of low ecological value within an ecological assessment report, based on a site survey. A copy of the ecologist's report must be provided, along with details of the appointed ecologist's professional status.

LE4 Mitigating ecological impact

2 of 2 credits achieved

Credit criteria

One credit where evidence provided demonstrates that the change in ecological value of the site, as a result of development, is less than zero and equal to, or greater than, minus nine species, i.e. a small negative change.

Two credits where evidence provided demonstrates that there is no negative change in the ecological value of the site as a result of development, i.e. equal to, or greater than, zero species.

Credit validation

No negative change in ecological value to be expected; the new development will increase the existing number of species on site with at least three more.

Credit references

Confirmation given by Ramsden and Partners.

Further Information/action

Evidence required to award credit:

- Details of vegetation plot types and their areas existing on site prior development (drawings, maps, plans, photographs, etc.)
- . Details of vegetation plot types and their areas existing on site after development

LE5 Enhancing site ecology

0 of 3 credits achieved

Credit criteria

One credit is available where evidence provided demonstrates that the design team (or client) has appointed a professional to advice on enhancing and protecting the ecological value of the site; and implemented the recommendations for general enhancement of site ecology.

Two credits are available where evidence provided demonstrates a positive increase in the ecological value of the site of up to (but not including) 6 species.

Three credits where evidence provided demonstrates a positive increase in the ecological value of the site of 6 or more species.

Credit validation

A qualified ecologist will not be commissioned for this project.

Credit references

Confirmation given by Ramsden and Partners.

Further information/action

To award the credits it is required that

- A copy of the Ecologist Report is provided
- Written confirmation of the Ecologists professional status and how he complies with the qualification requirements
- Confirmation from design team/client that recommendations for enhancement will be implemented
- Confirmation from Ecologist on changes in ecological value of the site

Note: A suitably qualified Ecologist must be a member of one of the following organisations:

- AWTC www.awtc.co.uk
- CIWEM Chartered Institute of Water and Environmental Management, 15 John Street, London, WC1N 2EB; t 020 78313110 www.cowem.org
- IEEM Institute of Ecology and Environmental Management, 45 Southgate Street, Winchester, Hampshire SO 23 9EH; t 01962 868626 www.ieem.org.uk
- IEMA Institute of Environmental Management and Assessment St. Nicolas House, 70 Newport, Lincoln, LN1 3DP; t 01522 540069 www.iema.net
- LI Landscape Institute, 33 Great Portland Street, London, W1W 8QG; t 020 72994500, www.landscapeinstitute.org

LE6 Long term impact on biodiversity

0 of 2 credits achieved

Credit criteria

One credit where evidence provided demonstrates that the client has committed to implementing some measures to minimise any negative long term impact on biodiversity.

Two credits where evidence provided demonstrates that the client has committed to implementing significant measures to minimise any negative long term impact on biodiversity.

Credit validation

A qualified ecologist will not be commissioned for this project.

Credit references

Confirmation given by Ramsden and Partners.

Further information/action

An Ecologist as per former credit must be appointed and confirm that

All relevant UK and EU legislation relating to protection and enhancement of ecology are complied with An appropriate management plan is produced covering at least 5 years after project completion; this should include

- . Management of any protected features on site
- Management of any new, existing or enhanced habitats
- . A reference to the current or future site level Biodiversity Action Plan

Additional requirements are, of which four have to be complied with in order to award second credit:

- A "Biodiversity Champion" has been nominated
- The relevant site work-force has been trained on how to protect site ecology during the project
- Record and monitor actions taken to protect biodiversity throughout key stages of construction
- The client requires that a new ecologically valuable habitat, appropriate to the local area, be created
- The client requires the contractor to programme site works to minimise disturbance on wildlife
- The client requires actions to be taken to protect/enhance biodiversity

Pollution

The following table summarises the credits awarded for this section.

The Code Credit Reference	Number of Credits Achieved	Number of Credits Available
Pol 1 - Refrigerant GWP – building services	0	1
Pol 2 - Preventing refrigerant leaks	1	2
Pol 4 - NOx emissions from heating source	1	3
Pol 5 - Flood risk	3	3
Pol 6 - Minimising water course pollution	1	1
Pol 7 - Reduction of night time light pollution	1	1
Pol 8 - Noise Attenuation	1	1
TOTAL CREDITS	8	12

Pol 1 Refrigerant GWP - building services

0 of 1 credits achieved

Credit criteria

One credit where evidence provided demonstrates the use of refrigerants with a global warming potential (GWP) of less that 5 or where there are no refrigerants specified for use in building services.

Credit validation

It was considered that refrigerants will not comply with the requirements for this credit.

Credit references

Assumption by Lugus Engineering.

Further information/action

The use of a refrigerant with a GWP of less than 5, e.g. Ammonia or R290 would be required to award credit.

Pol 2 Preventing refrigerant leaks

1 of 2 credits achieved

Credit criteria

One credit where evidence provided demonstrates that refrigerant leaks can be detected or where there are no refrigerants specified for the development.

One credit where evidence provided demonstrates that the provision of automatic refrigerant pump down is made to a heat exchanger (or dedicated storage tanks) with isolation valves. Or where there are no refrigerants specified for the development.

Credit validation

Refrigerant leak detection system will be specified if any refrigerant system is specified for the development.

Credit references

Confirmation given by Ramsden and Partners.

Further information/action

To award the first credit, following requirements have to be addressed:

- EITHER systems using refrigerants are contained in a moderately air tight enclosure (or mechanical ventilated plant room) and a refrigerant leak detection system is specified covering high risk parts of the plant OR
- An automatic permanent refrigerant leak detection system is specified, which is not based on the principle of detecting or measuring the concentration of refrigerant in air OR
- · Where there are no refrigerants specified for use in building services

To award the second credit, following requirements have to be addressed:

- The automatic shutdown and pump down of refrigerant occurs on the detection of high concentrations of refrigerant in the plant room
- The alarm threshold is set to a maximum of 2000 ppm (0.2%), or lower.

Pol 4 NO_x emissions from heating source

1 of 3 credits achieved

Credit criteria

One credit where evidence provided demonstrates that the dry NOx emissions from delivered space heating energy are ≤100 mg/kWh (at 0% excess 02).

Two credits where evidence provided demonstrates that the dry NOx emissions from delivered space heating energy are ≤70 mg/kWh (at 0% excess 02).

Three credits where evidence provided demonstrates that the dry NOx emissions from delivered space heating energy are \leq 40 mg/kWh (at 0% excess O2).

Credit validation

Space heating system to be specified will not have dry NOx emissions higher than 100mg/kWh (at 0% excess 02).

Credit references

Assumption by Lugus Engineering

Further information/action

The following demonstrates compliance:

Where manufacturer's details demonstrate that the plant installed to meet the building's space
heating demand has dry NOx emission levels as defined in the Credit Criteria (above). The emissions
should be estimated under normal operating conditions (not standby).

Pol 5 Flood risk

3 of 3 credits achieved

Credit criteria

Two credits where evidence provided demonstrates that the assessed development is located in a zone defined as having a low annual probability of flooding.

OR

One credit where evidence provided demonstrates that the assessed development is located in a zone defined as having a medium annual probability of flooding and the ground level of the building, car parking and access is above the design flood level for the site's location.

One further credit where evidence provided demonstrates that surface water run-off attenuation measures are specified to minimise the risk of localised flooding, resulting from a loss of flood storage on site due to development

Credit validation

Development in area of low annual probability of flooding.

Credit references

Assumption based on information obtained from Camden Council Website.

Further information/action

The provision of the following required to assess credit status:

- Annual probability of flooding in the area of the site; this information must state how this information was sourced i.e. from the Local Authority, EA or SEPA, flood maps etc.
- Confirmation if ground level of building is at least 600 mm above flood level if site is of medium annual flood risk

One additional credit;

- Where attenuation measures are specified to ensure that the peak rate of run-off from the site to the
 watercourses (natural or municipal) is no greater for the developed site than it was for the predevelopment site. This should comply with the Interim Code of Practice for Sustainable Drainage
 systems (SUDS) (CIRIA, 2004), or for at least a 1 year and 100 year return period event with a 6 hour
 duration.
- The capacity of the attenuation measures must include an allowance for climate change; this should be made in accordance with current best practice

Pol 6 Minimising water course pollution

1 of 1 credits achieved

Credit criteria

One credit where evidence provided demonstrates that effective on site treatment such as Sustainable Drainage Systems (SUDs) or oil separators have been specified in areas that are or could be a source of watercourse pollution.

Credit validation

Sustainable Drainage Systems (SUDS) will be specified to reduce water run-off.

Credit references

Confirmation given by Ramsden and Partners.

Further information/action

The following demonstrates compliance:

- Specification of Sustainable Drainage Systems (SUDs) or source control systems such as permeable surfaces or infiltration trenches where run-off drains are in areas with a relatively low risk source of watercourse pollution.
- 2. Specification of oil/petrol separators (or equivalent system) in surface water drainage systems, where there is a high risk of contamination or spillage of substances such as petrol and oil (see compliance notes for a list of areas).
- 3. All water pollution prevention systems have been designed and detailed in accordance with the recommendations of Pollution Prevention Guideline 3 and where applicable the SUDS manual.
- 4. A comprehensive and up-to-date drainage plan of the site will be made available for the building/site occupiers.

Pol 7 Reduction of night time light pollution

1 of 1 credits achieved

Credit criteria

One credit where evidence provided demonstrates that the external lighting design is in compliance with the guidance in the Institution of Lighting Engineers (ILE) Guidance notes for the reduction of obtrusive light, 2005.

Credit validation

Lighting design in accordance with requirements

Credit references

Confirmation given by Ramsden and Partners.

Further information/action

The following demonstrates compliance:

- The external lighting strategy has been designed in compliance with Table 1 (and its accompanying notes) of the ILE Guidance notes for the reduction of obtrusive light, 2005, (see additional information below - Buildings located in Scotland must also refer to the Compliance Notes below for additional requirements).
- All external lighting (except for safety and security lighting) can be automatically switched off between 2300hrs and 0700hrs. This can be achieved by providing a timer for all external lighting set to the appropriate hours.
- 3. If safety or security lighting is provided and will be used between 2300hrs and 0700hrs, this part of the lighting system complies with the lower levels of lighting recommended during these hours in Table 1 of the ILE's Guidance notes, for example by using an automatic switch to reduce the lighting levels at 2300 or earlier.
- 4. Illuminated advertisements, where specified, must be designed in compliance with ILE Technical Report 5 The Brightness of Illuminated Advertisements.

Pol 8 Noise Attenuation

1 of 1 credits achieved

Credit criteria

One credit where evidence provided demonstrates that new sources of noise from the development do not give rise to the likelihood of complaints from existing noise sensitive premises and amenity or wildlife areas that are within the locality of the site.

Credit validation

A qualified acoustic professional will be commissioned.

Credit references

Confirmation given by Ramsden and Partners.

Further information/action

The following demonstrates compliance:

- There are, or will be, existing noise-sensitive areas or buildings within 800m radius of the assessed development. Where there are or will be no noise-sensitive areas or buildings in the locality of the assessed development, the credit can be awarded by default.
- 2. A noise impact assessment in compliance with BS 4142:1997 has been carried out and the following noise levels measured/determined:
 - Existing background noise levels at the nearest or most exposed noise-sensitive development to the proposed development; or at a location where background conditions can be argued to be similar.
 - The rating noise level resulting from the proposed noise-source. This can be based upon reference
 to similar installations or sites, or determined by calculation. The noise impact assessment must
 be carried out by a suitably qualified acoustic consultant holding a recognised acoustic
 qualification and membership of an appropriate professional body. The primary professional body
 for acoustics in the UK is the Institute of Acoustics.
- 3. Where the rating level of the noise source(s) from the site/building is equivalent to or less than the background noise level, the credit can be awarded.
- 4. Where the rating level of the noise source(s) from the site/building is greater than the background noise level, measures have been installed to attenuate the noise at its source to a level where it will comply with requirement 3.