Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/agent	Connect Housing
Site Address	Former Newsome Mill, Hart Street, Huddersfield,
Description of Development	Full planning application for the erection of 78 residential dwellings with associated works and listed building consent application to alter, extend and demolish Grade II listed structures.

Part 2: Climate Change Mitigation measures

Please respond to the following questions considering the measures set out in the Climate Change Guidance note:
Q1: What measures have been/will be taken to reduce the energy demand associated with your proposed development beyond the minimum required in Building Regulations? (See section 2)
An enhanced fabric specification will be implemented, including early adoption of many of the u-value requirements of the upcoming Future Homes Standard. The implementation of a highly efficient building envelope will reduce the energy demand associated with space heating. Ensuring the occupier is well informed about the installed systems is key to ensuring efficient use. This will be communicated to occupants by: • The provision of a Home User Guide, clearly explaining how to operate the systems in the most efficient manner. • Installation of smart meters, enabling the occupier to monitor their own energy use and expenditure. • White goods will not be provided however, the Home User Guide will include information to residents on how to select the most efficient appliances. In order to enable greater control and the associated reduction in energy demand, individual time and temperature controls will be installed.
Q2: What measures have been/will be taken to limit the carbon consumed through the implementation and construction processes, e.g. by reusing existing on-site materials or sourcing materials locally? (See section 3)

Wherever possible, structures and materials are specified for retention / reuse including:

- Renovation of the clocktower, entrance gateway and timekeepers lodge.
- Retention of the remaining mill façade.
- Dismantling and rebuilding/reuse Weavers Cottages.

This reuse of materials provides a reduction in embodied carbon associated with the construction of the new properties whilst also following the principles of the waste management hierarchy.

Modern methods of construction including timber frame are being actively considered for the upper floors of the apartments and the housing to further reduce carbon associated with the development.

The Contractor selected to deliver the project will implement a Waste Management Plan, demonstrating compliance with the waste management hierarchy and recording key statistics in relation to waste and recycling.

Wherever possible, the Contractor will utilise local material suppliers and subcontractors to reduce emissions associated with deliveries and travel.

Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)

An off-gas solution will be implemented throughout the development; electric space heating and Air Source Heat Pump hot water are currently specified. This reflects the upcoming changes to the Building Regulations and the Client's aspirations to be an early adopter of the key principles.

The orientation of the mill apartments enables the roof space to efficiently accommodate a significant SE facing, PV array. Where possible based on plot orientation, the houses and weavers apartments will also include an element of PV.

Q4: What measures have been/will be taken to ensure the building design and layout has been optimised to energy efficiency beyond the minimum requirements in Part L of the Building Regulations ? (See section 5)

Terraces are organised in north-east / south-west orientations to provide site-specific optimum alignment. Where possible, habitable living rooms are located on the south-west side of terraces.

Overheating analysis carried out and window designs carefully considered to ensure optimum internal environment. Rooflines designed to provide shelter and/or optimise sunlight.

Extensive planting and street trees are incorporated into the design to increase surface permeability, including swales and sustainable drainage to minimise flood risk/ contribute towards climate change.

Internal layouts of apartment block(s) are designed with top-lit rooflights and natural ventilation in mind.

The approach to overheating has been considered in detail at design outset to ensure a passive approach to overheating and cooling; this is achieved through careful consideration of the window design and maximising the free area wherever possible to ensure optimum internal environment. Rooflines have also been designed to provide shelter and/or optimise sunlight.

The design includes a number of measures which exceed the minimum requirements of Part L 2021:

- A highly efficient fabric, including u-values exceeding those specified in Part L 2021 with an aim towards Future Homes Standards.
- An off-gas heating/hot water solution including ASHP hot water.
- Additional renewable technologies beyond minimum Part L compliance.

Q5: What measures have been/will be taken to reduce potential impacts of flooding associated with your proposed development? (See section 6)

The site is situated within Flood Zone 1.

To reduce the potential impacts of flooding, site levels are set to ensure overland flows are directed to the existing highway network. Areas of green space are incorporated within the development to provide additional permeable area.

SuDS will be implemented to control surface water run off at source including; permeable paving and swales for surface water attenuation. The drainage design includes a 40% allowance for Climate Change and a discharge rate of 5l/s.

Q6: What measures have been/will be taken to reduce water stress associated with your proposed development? (e.g. Water retention and minimisation measures) (See sections 7 and 8)

The Contractor selected to deliver the project will set out a scheme of water efficiency measures in accordance with The Water Efficiency Calculator for New Dwellings. This will include measures such as:

- Dual flush WCs
- Flow restriction to taps and showers

Residents will have easy access to their water meters, providing the user with information to support their reduction in water use.

Q7: What measures have been/will be taken to provide biodiversity net gains? (See section 8)

A well considered landscape proposal includes a diverse range of green spaces and habitat creation; ranging from formal lawned gardens to wildflower nature

gardens. Green infrastructure in the form of swales and rain gardens are also incorporated into the development.
Q8: What measures have been/will be taken to reduce air pollution associated with your proposed development? (See section 9)
The site layout prioritises pedestrian movements to encourage active travel and public transport use. The site does not sit within an Air Quality Management Area however, an Air Quality Screening Assessment is included within the application. Wherever possible, the Contractor will utilise a local supply chain in order to reduce emissions associated with material deliveries and subcontractor travel to the site. The development includes a range of open space types, from formal landscaped gardens to wildflower areas and a nature garden. The landscape design includes tree planting to assist in mitigating the effects of air pollution. In order to assist in reducing air pollution associated with vehicles, infrastructure will be installed to support the future installation of EV charging points across the development.