

Sustainability Statement for

Proposed Bungalow on land at Burrs lane , Barkway for Ms Claire Smalley

Energy and Carbon reduction

The proposed dwelling will be heated by an air source heat pump with wood burner back up

Solar panels will be provided to the East and west facing roof pitches

Air conditioning will be provided

Insulation in excess of building regulation requirements will be provided to roof, walls and floor

High insulation purpose made timber windows and doors will be used

The applicants brother is a builder and will be building the house for his sisters own occupation

Low water use cisterns, basins, baths and showers will be installed

Orientation

East / West orientation is proposed with retention and encouragement to hedge growth to boundaries

Energy reduction

Air source heat pump

Wood burner

No gas on site

Solar panels

Very high levels of insulation

Low Carbon

High levels of insulation

Minimal thermal bridging

High levels of air tightness

Materials

The applicants brother is a builder and will source local materials and labour through his existing contacts

Climate change

Minimal South facing openings

High insulation levels

Air cross flow at ground and first floor from east to West

Overheating

Very high levels of insulation

East to West cross flow of air

Air conditioning

Green infrastructure

Encouragement to boundary hedge growth

Existing landscape

Existing boundary trees to be retained and encouraged

All to be fence protected during construction

Green roofs

No flat roof areas proposed

East and West pitches will have solar panels

Surface water run off

Water butts will be provided to down pipes to store water for garden watering and car washing

Mains water consumption

Rain water stored for reuse

Low flush WC systems and low water use bathroom furniture to comply with part g of the building regulations

Water recycling

Rain water storage for garden watering and car washing

Air quality and emissions

No gas supply

Main habitable space is at the front and rear of the dwelling

Cross flow air is achievable

Air conditioning to be provided

Large windows East and West facing

Property set back from the road

Open space around building

Electric car point provided

Solar panels

Air source heat pump

Mike Easton (Agent)