

Date: 5th May 2020

Air Quality Mitigation Strategy

WYG has prepared a mitigation strategy in relation to the Air Quality Assessment, dated 13th January 2020, in support of a planning application for the proposed employment development at land to the north and south of the Dearne Valley Parkway (Gateway 36 Phases 2 and 3 – Local Plan site references ES17 and ES15).

WYG have reviewed the operational phase mitigation proposed for the proposed development, which will assist in the reduction of road traffic emissions. The Travel Plan produced by Mosodi Transport Consultants contains proposed methods to reduce the impacts of emissions on air quality from the proposed development. The value of mitigation measures proposed within the Travel Plan have been calculated for the proposed development using unit costs provided by Mosodi, as outlined below in Table 1.

Table 1 Travel Plan Air Quality Mitigation Measures Cost

Item/Measure	Multiplier	Cost per Unit	Total Spend
1 - Travel Plan Coordinator (per year)	5	£25,000.00	£125,000
2 - Cycle Parking Based on B2 Ratio of 1 per 300sqm (Cost per Sheffield Stand)	340	£29.99	£10,197
3 - Cycle Stand Installation	340	£15.00	£5,100
4 - Cycle Shelters	34	£2,000.00	£68,000
5 - Cycle Shelter Installation	34	£500.00	£17,000
6 - EV Charging Infrastructure (See Note 1 below)	204*	£3,500.00	£714,000
7. Showers and Drying Facilities	25	£1,000.00	£25,000
Total			£964,297

Note 1: The electric charging points have been calculated based on 10% total parking allowance with B2 provision based on 1 space per 50m². Whilst this value can only be estimated at this stage with the number of car parking spaces and charging points relative to whether it is B2 or B8 use, the above demonstrates that the equivalent damage cost will be significantly exceeded.

Rockingham Phase 2 & 3 Air Quality Mitigation Strategy



The Damage Cost Assessment undertaken by WYG (within air quality addendum A115145 Rockingham AQ comments 05Mar20) provided a figure of the costs associated with the proposed development due to increased traffic emissions. The damage costs were calculated to be £312,743. The mitigation measures proposed within the Travel Plan have been estimated at £964,297, which exceeds the damage costs calculated by WYG.

As stated within section 5.6 of the Barnsley Metropolitan Borough Council Air Quality and Emission Good Practice Guidance, March 2020, *“the damage costs calculations for major developments are to assist the developer in assessing the proportionate financial commitment for the required mitigation”*. The proposed mitigation measures exceed the damage costs calculated and are therefore considered appropriate mitigation measures which are commensurate with the effects of increased traffic-based emissions.