

**1. Installation of two off 20t induction furnaces**

The installation of two off 20t medium frequency induction furnaces at the existing Part B installation, triggering this A2 application, are not anticipated to increase the site noise profile based on information supplied from the manufacturers.

There are no known vibratory characteristics relevant to the furnaces.

**2. Existing surveys**

Wardell Armstrong carried out a noise survey ST14636, October 2015, in connection with planning application number made to Stoke-on-Trent, ref. 61343/FUL. A copy of is submitted with this application.

The site noise profile was also comprehensively characterised in in respect to earlier planning matters that related to the development of the former Eagle Pottery Site on the north side of the Caldon Canal (properties referred to as Lock Keepers Way and Windlass Grove below).

**3. Sources and nearest sensitive receptors of noise and vibration**

**Table 3.1 Sources and nearest sensitive receptors of noise and vibration**

Source	Type	Nearest receptor (residential unless otherwise stated)	Abatement
Scrap metal deliveries and scrap handling on external storage yard	Noise	Ivy House Road, c.150m, N  SW, Broughton Road, Brewster Road, Freshwater Grove, c. 400m, SE	Deliveries are not routinely scheduled between 9pm and 7am.  There are no drops / chutes involved in scrap deliveries.
Sand and bulk gas tanker deliveries	Noise	Ivy House Road, c.150m, N	Deliveries are not permitted to start after 9pm or before 7am
Melting	Noise	SW, Broughton Road, Brewster Road, Freshwater Grove, c. 400m, SE	Is contained with in the foundry buildings.

## Appendix C7 – rev. 1

### Noise and vibration

		NW, Lock Keepers Way, Windlass Grove, 80m, NW	
Knockout of castings	Noise	Ivy House Road, c.150m, N  NW, Lock Keepers Way, Windlass Grove, 80m, NW  SW, Broughton Road, Brewster Road, Freshwater Grove, c. 400m, SE	Is contained with in the foundry buildings.
Vibratory reclamation of sand	Vibration	Ivy House Road, c.150m, N	Vibration has been felt at the nearest receptor – this is caused when in excess of 15 tonnes of sand are on the grid. Operations are limited to 15 tonnes or less of sand on the grid.
Fettling operations	Noise	Ivy House Road, c.150m, N  NW, Lock Keepers Way, Windlass Grove, 80m, NW  S, Leek Road, 130m, SW	Is contained with in the foundry buildings.
Fans, pumps, motors, exhaust air from stacks	Noise	Ivy House Road, c.150m, N  NW, Lock Keepers Way, Windlass Grove, 80m, NW  SW, Broughton Road, Brewster Road, Freshwater Grove, c. 400m, SE  S, Leek Road, 130m, SW	Are located at various points around the site and some are external to the buildings.