

Appendix 6 to Item C2

Request for approval of details pursuant to conditions 4, 7, 8, 12, 17 and 27 of planning permission TM/88/1002 at Blaise Farm Quarry, Blaise Quarry Road, Kings Hill, West Malling, Kent ME19 4PN – TM/88/1002/RVARA (KCC/TM/0121/2020)

Appendix 6:

- **Appendix 6:** Proposed “Blast Monitoring Scheme” (dated June 2020).

BLAISE FARM QUARRY
OFFHAM, KINGS HILL, WEST MALLING, KENT, ME19 4PN

GALLAGHER AGGREGATES LTD
BLAST MONITORING SCHEME

JUNE 2020



1.0 Methodology to be adopted

- 1.1 In order to demonstrate compliance with the blast vibration criteria of planning permissions granted for Blaise Farm Quarry development, monitoring shall be undertaken at various stations between the quarry blast site and vibration sensitive locations as shown on Drawing GAL-BQ-20-11¹ attached, which include:

Farm Gate (FG₂)
Offham Access Road (OAR)
Central Site Station1 (CSS₁)
Central Site Station 2 (CSS₂)
Southern Site Station (SSS₁)
Ruins of St Blaise Chapel (BCR)
Site Office (SO)
Eastern Boundary (EB)
Northern Boundary (NB)
Beau Fighter Road (BFR₁)
New Earth Solutions (NES)

- 1.2 Data gathered will be used to produce a 'regression line' to allow prediction of levels of vibration expected at various distances from any particular blast site, to ensure vibration levels are within the range expected and consistently controlled at below the limits set out in the planning permission.
- 1.3 Subject to landowner / occupier permission, monitors will be located at four stations which will give the best representation of the intensity of the blast vibration at the closest vibration sensitive location / property to the blast site. If permission is not forthcoming for any location, the monitor will be located at a suitable station as near to the sensitive location as possible. This should preferably be between the blast site and the vibration sensitive location.
- 1.4 The monitoring will be undertaken in accordance with the principles of British Standard ISO 4866:2010.
- 1.5 The prevailing weather conditions shall be noted at the time the blast is fired.
- 1.6 The results to be submitted to the Mineral Planning Authority will comprise a copy of the reading from the monitoring instrument which should include the peak particle velocities in three mutually perpendicular planes together with the date and time. The records should also indicate the monitoring location, weather conditions, and blast design details including an accurate plan showing the position of the blast in relation to the monitoring location, the total explosive charge weight and maximum instantaneous charge weight.
- 1.7 The results shall be retained on site by Gallagher Aggregates Limited (Ltd) with the date, time, monitoring station location, and blast design details including an accurate plan showing the position of the blast in relation to the monitoring location, total explosive charge weight and maximum instantaneous charge weight.
- 1.8 The results will be submitted to the Mineral Planning Authority as soon as possible after firing. Gallagher Aggregates Ltd will also provide the results of blast monitoring to liaison meeting attendees as required.
- 1.9 Gallagher Aggregates Ltd will notify the Mineral Planning Authority of its intention to fire a blast via email on the morning of a blast day, or on the previous day and will confirm the time of firing

¹ Dated 4th June 2020

in this communication. This information will be sent by email and telephone to the Mineral Planning Authority, Tonbridge and Malling Borough Council and one representative of each relevant Parish Council and local residents, if Gallagher Aggregates Ltd are provided with a current email address.

2.0 Instrumentation

- 2.1 Seismographic instrumentation recording ground vibration in terms of peak particle velocity in three mutually perpendicular planes of measurement and air overpressure in dB (linear) shall be used.
- 2.2 All instrumentation will have valid certificates of calibration.

3.0 Locations and frequency of Monitoring

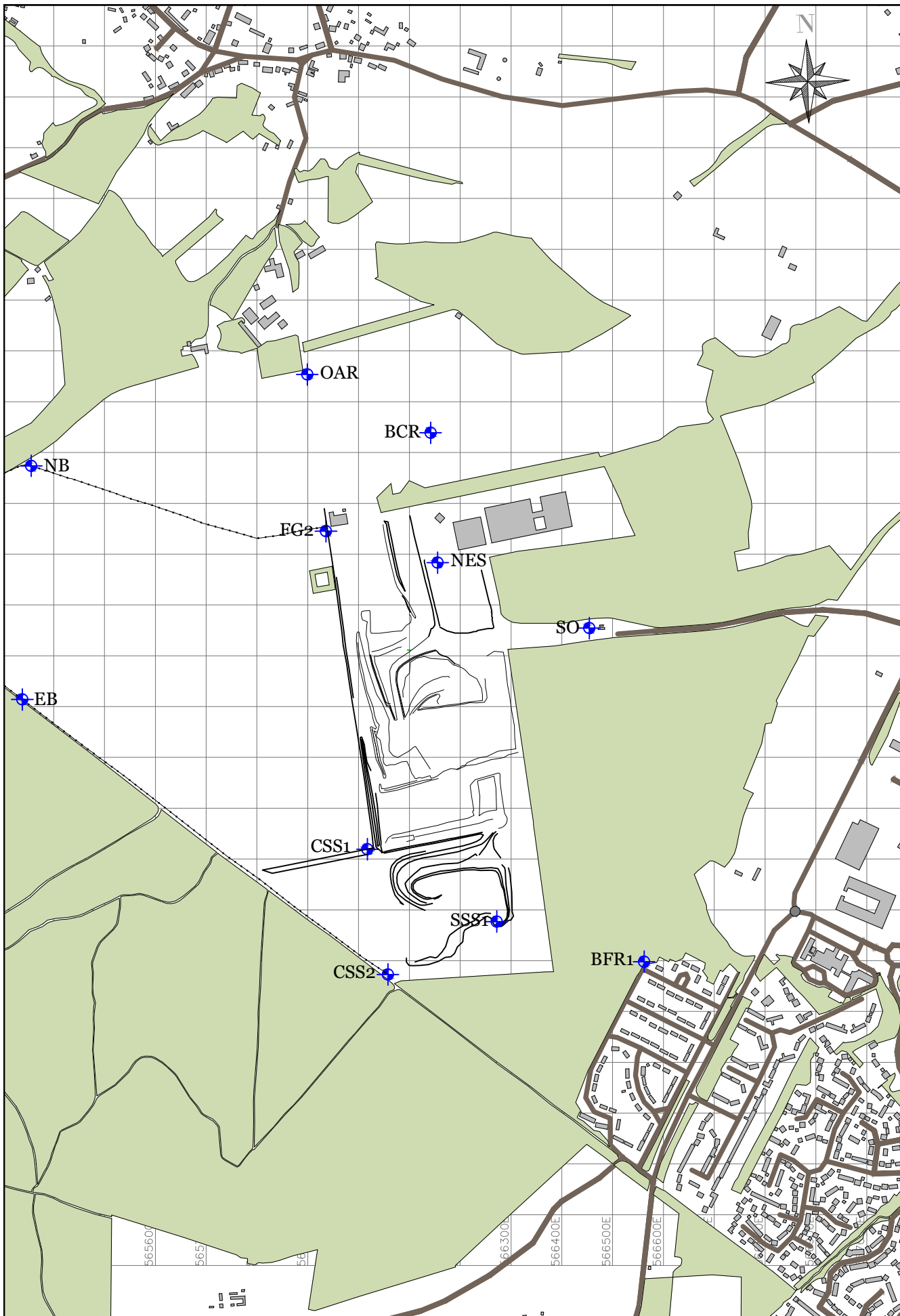
- 3.1 The monitoring location will be determined as described in 1.2 and 1.3 above.
- 3.2 At twelve monthly intervals, at either the request of the Mineral Planning Authority or Gallagher Aggregates Ltd, the monitoring procedures will be reviewed.

4.0 Complaints Procedure

- 4.1 Should complaints be made to the quarry management relating to blast vibration, these will be dealt with via the Company complaints procedure with a complaints log form being completed. A complaint will be allocated to a nominated owner who will investigate in a timely fashion and, where necessary, take measures to control the effects to prevent further incident or reason for complaint. The results of the investigation will be submitted to the Mineral Planning Authority within 72 hours of them being completed.
- 4.2 All such complaints and any action undertaken as a result of the investigation will be recorded in an archive held electronically on quarry office storage devices and will be available for inspection by the Mineral Planning Authority and at liaison committee meetings.

5.0 Independent Monitoring.

- 5.1 Gallagher Aggregates Ltd will, on request, pay the reasonable expenses incurred by the Mineral Planning Authority in undertaking independent monitoring at no more than one location on up to four occasions each year. The precise location(s) will be determined by the Mineral Planning Authority in consultation with the Tonbridge and Malling Borough Council Environmental Protection Team and the relevant Parish Council(s). The Mineral Planning Authority will not inform Gallagher Aggregates Ltd in advance of this monitoring, but will provide results to Gallagher Aggregates Ltd, Tonbridge and Malling Borough Council Environmental Protection Team and the relevant Parish Council(s). The independent monitoring will include measurements for ground vibration and air overpressure as detailed in paragraph 2.1 above and all equipment used will conform with paragraph 2.2.



**BLAST MONITORING LOCATIONS
PHASE 4**

**GALLAGHER AGGREGATES LTD
BLAISE FARM QUARRY
WEST MALLING**

Drn by:- MJW	Date:- 4th June 2020	Scale:- 1:10000 @ A4	Sheet number:- 1 of 1
Drawing number:- GAL-BQ-20-11		Revision:- /	