

Town and Country Planning (Referred Applications and
Appeals Procedure) (Wales) Regulations 2017

Town and Country Planning (Development Management
Procedure) (Wales) Order 2012, as amended

Town and Country Planning Act 1990: Section 78 Appeal

Appeal by Breedon Trading Limited

Denbigh Quarry, Graig Road, Denbigh

Appeal Ref: CAS-03423-V9Z8M3

**Response to Statement of Case of Denbighshire County
Council**

March 2025

Contents

1. Introduction	1
2. Appellant Response to Reason for Refusal 3	2
3. Appellant Response to Reason for Refusal 1	7
4. Appellant Response to Reason for Refusal 2	9
5. Conclusions	12

Appendices

Appendix 1 – Email Correspondence between LPA and the Appellant regarding suggested condition to address RfR 3

Appendix 2 – Blast Monitoring Results

1. Introduction

- 1.1 This response is prepared in relation to the Statement of Case (SoC) issued by Denbighshire County Council (DCC) on 14th February 2025.
- 1.2 As set in DCC's SoC, the Council no longer propose to defend reasons for refusal (RfR) 1 and 2 and they set out justification for not defending these reasons within the SoC. Therefore, this response will primarily focus on the Council's case for RfR 3 and is discussed in more detail in section 2 of this report.
- 1.3 This report will also explore the justifications for not defending RfRs 1 and 2 as the Appellant strongly disagrees and disputes the reasoning put forward by the Council with the now dropped RfRs leading to the Appellant to incur unjustified expense and delays to the Appeal. Discussion regarding these RfRs is set out in sections 3 and 4 of this report.

2. Appellant Response to Reason for Refusal 3

- 2.1 The Appellant considers that the Council is maintaining a refusal on a ground clearly capable of being dealt with by way of condition, which would enable the development to proceed. In fact Council officers went to great lengths to get the LPA to drop RfR 3 along with RfRs 1 and 2. This involved approaching the Appellant on 20th December via email with a suggested condition to address RfR 3, which was to be taken to committee meeting on 15th January 2024 (see attached at **Appendix 1** along with the Appellant's response). It should be noted that at this stage, the officers were focussing on blasting as being the sole amenity concern for RfR 3 with no reference to noise or dust impacts. This proposal was refused by the planning committee on the 15th January, again against officer advice. A further planning committee was held on 12th February leading to the dropping of RfR 1 and 2 but retention of RfR 3.
- 2.2 In terms of RfR 3, as set out in the Appellant's SoC, this is somewhat generalised, and this continues to be the case with the Council's SoC failing to identify what the nature of these impacts would be (i.e. what aspects of amenity would be negatively impacted). All the usual 'pathways' through which amenity could be adversely impacted (noise, odour, dust, air quality, vibration, lighting etc) have been considered through technical evidence, and the proposal has not been shown as breaching any of the relevant guidelines. The nearest residential property is located over 250 metres from the proposed extended quarry boundary and therefore outside the recommended buffer-zone for hard rock quarries of 200 metres as stated within MTAN 1. In addition, the Appellant has agreed to reduce their annual output limit from 500,000 tonnes per annum as currently restricted by Condition No. 4 to 400,000 tonnes per annum, which is a 20% reduction on annual tonnage allowance.
- 2.3 The Council's SoC makes reference to amenity policies (PSE16 and PSE17) along with Minerals Technical Advice Notes (MTAN) and the provisions of Planning Policy Wales Edition 12 (it is noted that the Council incorrectly refer to section 5.15, which doesn't exist in Edition 12) to suggest that the development would, in some way be inappropriate. However, much of the Council's case appears to be heavily reliant on *"local lived experience from local residents to evidence how negative impacts from the existing quarrying affect the local community, and how they will be exasperated to an unacceptable level if the quarry is extended"*, with no consideration of technical evidence from experts.
- 2.4 Amenity issues for minerals development have long been the subject of carefully prepared technical guidance and policy. The technical guidance is the result of research and advice from specialist groups of experts in the public and private sectors. Mineral Planning Authorities,

Secretaries of State and Welsh Ministers have long applied technical standards for noise, blasting, dust, air quality etc. The approach is objective, not arbitrary. Most of those technical standards include specific methods for data collection, its analysis and for specific levels of acceptability. Policy reflects the technical guidance and provides clarity and certainty for operators, communities and decision makers. The Council's approach casts this aside.

- 2.5 It is evident from the facts set out during the determination of the application that the proposal does not conflict with objective criteria against which amenity effects of quarry developments are to be assessed, notably the MTAN1 criteria relating to noise and blast vibration controls. All quarry developments are associated to some degree with issues of noise, blast vibration and dust, and that is the reason why MTAN1 'Aggregates' sets objective criteria against which noise and blast vibration can be judged. There is nothing in Welsh Government policy or guidance to indicate that if technical guidance is met then some other subjective test should be applied. If assessments are to be based simply upon subjective amenity concerns, then there is no need for the Welsh Government Guidance set out in MTAN1.
- 2.6 In terms of Policies PSE16 and PSE17 of the Denbighshire Local Development Plan, as set out in the Appellant's SoC, the extension is located within the buffer zone of the existing quarry and the effect of granting permission would be to extend the buffer zone out to the west. The width of this zone is 200m and the designation of a new area would not encroach on any existing sensitive uses but would prevent such development from taking place. As that area would be outside the development limit of the town of Denbigh it is very unlikely that such uses would come forward for consideration. It is considered that the adjustment/relocation of the buffer area to accommodate the extension complies with the requirements of the Policy due to the distance that is being maintained from existing sensitive (residential) uses coupled with the lack of impacts. The extension is therefore not in conflict with these Policies.
- 2.7 The fundamental role of a planning decision maker is to have regard to the evidence. There is a comprehensive evidence base from the Appellant submitted during the determination of the application, which has been reviewed and critiqued by technical officers and consultees. I set out below a timeline and chronology of how blasting, noise and dust considerations were assessed and judged throughout the determination of the application to enable statutory consultees and the LPA officers to conclude that subject to the imposition of appropriate conditions there would be no negative air pollution, noise, dust, vibration, odour or lighting impacts on the amenity and well-being of local residents.

Blasting

- 2.8 In terms of existing blasting practices and approved conditions at Denbigh Quarry, a Blasting Impact Management Protocol (attached) was approved on 08/12/2023 (Condition Numbers 26 of Planning Permission Code No. 01/2019/0757 – see attached). Therefore, the Council, less than a year and a half ago, considered that blasting controls were appropriate to manage and mitigate against the environmental impact of blasting on-site. The Appellant understands that the effect of blasting is felt by the local community, but there is no evidence to suggest that the current blasting results in damage to properties and measured ground vibration from the quarry has been consistently measured well below the conditional limit of 6mm/second PPV – see attached at **Appendix 2** the results of the last blast which took place in January 25, August 24 and April 24.
- 2.9 As part of the original application submission, a noise and vibration assessment has been undertaken to consider the potential for noise and vibration generated by the operations associated with the quarry development to give rise to impacts at the nearest sensitive receptors. In terms of blasting and vibration, the assessment found that significant effects from blast-induced vibration are unlikely. This submission was reviewed by the independent environmental consultant employed to assist Denbighshire County Council (Enzygo), who concluded that *“We accept that the vibration assessment is adequate and agree that, based on the use of 80kg MIC at the distances quoted, vibration levels would meet the MTAN-1 guidance values.”* No further information was requested by the Council in terms of blasting and vibration.
- 2.10 As outlined above, LPA officers considered that blasting operations are capable of being controlled by condition and hence the approach to the Appellant In December 2024 and the subsequent presentation to planning committee on 15th January 2025.

Noise

- 2.11 As part of the original application submission, a noise and vibration assessment undertaken by Pleydell Smithyman Limited was undertaken. The assessment found that noise from future operations would remain within derived limits at the receptors identified.
- 2.12 This submission was reviewed by the independent environmental consultant employed to assist Denbighshire County Council (Enzygo), who concluded that:

“We consider that a more extensive baseline noise survey is required to verify that the background noise levels used within the assessment are more representative.

We also consider that more detail is required on the plant and equipment employed at site,

including make, model, number of plant and operational noise levels of each item of plant. This should be broken down into the specific operations the plant is undertaking, i.e., loading, haulage, screening and crushing, restoration, etc. The predictions should show the worst-case predicted noise levels for all plant which would be operating simultaneously rather than the item of plant that generates the highest noise level.

We feel that more information/clarification is required for the noise assessment”.

- 2.13 Following Enzygo’s critical appraisal of the noise and vibration assessment, an additional noise assessment prepared by SLR Consulting Limited was been submitted to Denbighshire County Council in response to the points raised. In review, Enzygo set out that:

“Despite the comments made above, the assessment methodology is accepted. As ambient noise levels at Location 1, Bryn Neffyd, are significantly higher than those predicted, the conclusions of the new, additional assessment are also accepted. However, this is subject to the implementation of best practice noise control measures at the site throughout its working life.

It is suggested that a planning condition requiring day to day, normal operations, meet the guidance value of 10dB above the prevailing background noise levels, subject to a maximum limit of 55dB(A) LAeq,1hr, at all receptors is included in any planning consent.

It is also suggested that periodic noise monitoring is undertaken to ensure that the permitted limits above are met”.

- 2.14 Therefore, as set out above, independent technical consultants on behalf of the LPA considered that potential noise impacts from the Appeal proposal are clearly capable of being dealt with by way of condition, which would enable the development to proceed.

Dust

- 2.15 As part of the original application submission, an air quality assessment chapter was contained in Volume 2 of the Environmental Statement undertaken by Temple. Following critical appraisal by Enzygo Environmental Consultants (on behalf of DCC), several comments were raised in relation to the air quality assessment, as follows:

“We consider that the activity with the greatest potential to exceed ‘medium’ dust magnitude is blasting. IAQM guidance suggests that blasting of hard materials of a high dust potential can be considered as a ‘large’ magnitude. A judgement has been made that a moderate working area and extraction amounts/frequencies lead, on balance, to a ‘medium’ magnitude. Given that there are no specific dust mitigation measures relating to blasting activities specified (such

as damping, stemming materials etc), it would have been considered more robust to consider as potential magnitude of 'large' as a worst-case assessment or sensitivity test. [...]

The meteorological data used for the assessment has been taken from the Shawbury station. The assessment incorrectly states this as being 12 km from the site, whereas as Shawbury is in excess of 65 km from the site. There are potentially 5 or 6 closer meteorological stations including Rhyl that could be considered as better representations of on-site conditions. I would request that consideration is given to a closer and potentially more representative meteorological data set and the assessment revised."

- 2.16 To address Enzygo's comments, SLR Consulting Ltd were commissioned to undertake a Mineral Dust Impact Assessment. In review, Enzygo set out that:

"The methodology and conclusions of the revised dust impact assessment are accepted. However this is subject to the implementation of best practice dust control measures throughout the site and with a particular focus on blasting operations. These measures should be provided by means of planning condition requiring an agreed dust management plan and monitoring strategy".

- 2.17 Therefore, as was the case for blasting and noise, independent technical consultants on behalf of the LPA considered that potential dust impacts from the Appeal proposal are clearly capable of being dealt with by way of condition, which would enable the development to proceed.

Other Relevant Matters

- 2.18 It is noted in the Council's SoC attempts to justify the refusal contrary to the LPA's officer's advice and how officers are not "infallible" and are not the LPA. However, the SoC fails to explain why the advice and guidance was ignored from independent experts from other statutory bodies such as NRW, Public Health Service Wales and the independent environmental consultant employed to assist Denbighshire County Council (Enzygo).
- 2.19 In terms of procedures, the Council set out *".. the level of local interest is sufficient to justify a hearing but is not at such a significant and unusual level as to justify the expense of a full public inquiry"*. This appears to be somewhat at odds with their stance on RfR 3, where they make a great play about the amenity harm to local residents. If this was *"unacceptable"* as the Council make out, surely the level of local interest would be at the *"unusual level"* to justify a full public inquiry.

3. Appellant Response to Reason for Refusal 1

- 3.1 The Appellant strongly disagrees with the Council's assertion in the SoC that *"In the absence of up to date surveys, it was not possible to conclude the measures proposed to prevent harm to ecological and biodiversity interests or mitigation were appropriate or adequate."* The Appellant responds to this claim as follows.
- 3.2 In support of the original submission of June 2022, a series of ecological reports, including an Ecological Impact Assessment (dated September 2021) (EclA) was produced. The EclA was informed by surveys and reports carried out during the relevant survey seasons of 2019. This included: an extended Phase 1 habitat survey, breeding bird survey, bat activity survey, bat roost activity survey, great crested newt population survey, dormouse presence / absence survey, and a badger survey. Updated bat surveys were undertaken in 2021 as well as an updated Phase 1 habitat survey.
- 3.3 The Council's SoC at paragraph's 5.2 and 5.3 claim that due to the time which passed between the survey data collection (2019) and the Planning Committee (December 2023), the Planning Committee Members *"could therefore not conclude with certainty that the proposed lateral extension to Graig Quarry would 'not' have an unacceptable negative impact on the protected species and the special characteristics and features of the Crest Mawr and Graig Quarry Sites of Special Scientific Interest."* The Appellant refutes this as, firstly; the surveys were undertaken during the preparation of the planning application, for which submission was delayed as a result of discussions between the Appellant and North Wales Shared Minerals and Waste Planning Service. The Service advised the Appellant to wait until receipt of the planning permission for the Section 73 Planning Application Ref: 01/2019/0757 prior to submitting the Appeal proposal. This caused significant delays to the submission, which obviously had a knock on effect to the survey dates.
- 3.4 Regardless of the delays to the submission, the information provided by the Appellant at submission satisfied NRW subject to the implementation of three conditions, and the Council's Ecologist. Whilst it is acknowledged that the North Wales Wildlife Trust objected due to the length of time between the surveying and the determination of the application, the Planning Officer within their Committee Report, noted the inclusion of a planning condition requiring the submission of updated ecological surveys prior to commencement of development in each phase.
- 3.5 The Committee Minutes noted concerns to local ecosystems, which were addressed by the

Planning Manager of the North Wales Minerals and Waste Shared Planning Service who stressed that the application had taken a long time to process, and reiterated that further ecological surveys would be required prior to commencement of each phase of development. No further discussion was held on ecological matters prior to the proposal from a Member to refuse the application.

- 3.6 We therefore submit that the Planning Committee Members had sufficient information available to them regarding ecological matters, and they failed to appropriately consider that whilst there had been a number of years pass between surveying and determination, the relevant statutory consultee (NRW) along with the County Ecologist were satisfied that the submitted information was sufficient to determine approval, and that conditions could be implemented to ensure updated surveys when required.

4. Appellant Response to Reason for Refusal 2

- 4.1 The Appellant strongly disagrees with the Council's assertion in the SoC that *"The LPA considered that there was insufficient information available both from the appellant and other sources to justify a further extension to Denbigh Quarry at the time"*. The abundance of evidence available for the LPA is set out below:
- 4.2 The Planning Statement, dated November 2021, detailed the need for the development based on the information published at the time. This included for the Regional Technical Statement 2nd Review (RTS) published in September 2020 and its Appendix A: North Wales. The Planning Statement acknowledged the separation of the North Wales Region into two sub-regions, North West Wales and North East Wales, which consists of Denbighshire, Flintshire and Wrexham.
- 4.3 In summary, the Planning Statement demonstrated that, based on the information readily available at the time, North Wales required an annual apportionment of 7.7 million tonnes, and North East Wales should accommodate 5.1 million tonnes per annum (mtpa) of this. The RTS identified the need for Flintshire to allocate a total of 36 million tonnes of crushed rock reserve, however acknowledges the Carboniferous Limestone outcrop in southern Flintshire, and almost all of Wrexham is heavily constrained by location within the Bryniau Clwyd AONB. Therefore, the RTS notes that it *"may become necessary for Denbighshire to take on a greater share of crushed rock production within the sub region than is presently the case, and again, there would be merits in collaborative working on this between all three LPAs within the NE sub-region."* The 'need' position put forward by the Planning Statement therefore aligned with the published position of the most recent, readily available, Regional Technical Statement.
- 4.4 The Committee Report produced by the Planning Officer included a section summarising the *"need for aggregate minerals"* at 4.2.2. As within the Planning Statement, the Committee Report makes direct reference to the RTS, stating that *"Denbighshire County Council endorsed the RTS 2 on 26th January 2021"*. The Committee Report also acknowledges Denbighshire accepted requirement to work collaboratively with its North Wales region to meet demand, stating that *"whilst the RTS2 states that Denbighshire, as a Local Authority Area would not need to provide any allocations for crushed rock due to the current landbank, the need for crushed rock mineral on a sub-regional scale, is demonstrated through the requirement in the RTS 2 for the North-East Wales sub-region to allocate additional resource of 36 million tonnes."*
- 4.5 The Committee Report goes on to regard the agreed 'Statement of Sub-Regional Collaboration' (SSRC) between Denbighshire, Wrexham and Flintshire; directly referencing the following

statement from the SSRC – *“This SSRC confirms that the authorities of the North-East Wales sub-region have agreed that any shortfall of crushed rock would be considered as a sub-regional apportionment shortfall, and this shortfall would be met by either; extensions to existing crushed rock quarries in the sub-region, or a new crushed rock quarry site also within the sub-region. A new site promoted by a landowner or minerals operator provides far more certainty to delivering the sub-regional apportionment as opposed to a blanket ‘area of search’ or ‘preferred area’ approach proposed in an LDP.”* Finally, the Committee Report summarised that following the adoption of allocations within the Flintshire Local Development Plan, and the granting of planning permission for a large lateral extension of Hendre Quarry, *“there remains a short fall of a minimum of 3 million tonnes for crushed rock over the plan period, on a sub-regional scale”*.

- 4.6 The Committee Minutes provides the published report of the Committee discussion and decision. Within the ‘General debate’ which took place, Councillor Delyth Jones made reference to the RTS only to state that *“with regards to Denbighshire local authority area the RTS2 did not require Denbighshire to make any crushed rock allocations based on the permitted reserves”* and further made reference to the recent permission being granted in Flintshire. Later within the Committee meeting, it was identified to members that the Welsh Government department regarding soils resources *“did not object to the application stating that there was an overriding need for the aggregate that would outweigh the removal of agricultural land.”*
- 4.7 The Committee Minutes further note that *“Members also stressed that the application was for a new quarry. Members asked for clarification that if Denbighshire has no need for aggregate at the current time, was there a another authority that was in need of such aggregate.”* The Manager of the North Wales Shared Minerals and Waste Planning Service *“stressed”* that minerals could only be worked where they are found, Denbighshire is an importer of minerals that do not occur within the area demonstrating the need for other areas to meet authority needs, and that *“44% of material sourced at the quarry is used for agricultural lime. Therefore, a large proportion of the minerals exported from the quarry is not being used as an aggregate in construction.”*
- 4.8 Despite this, the Committee resolved to refuse planning permission contrary to the officer recommendation.
- 4.9 It is clear from the Committee Minutes that the Committee Members did not have and, or any due regard for all mineral need information which was presented to them both within the Planning Statement and that summarised within the Committee Report prepared by the

Planning Officer. There is no reference within the Committee Minutes to the SSRC, and therefore members did not give due consideration to Denbighshire County Council's adopted approach to considering mineral applications in the context of the wider sub-region. It is submitted that, at the time of making the decision at Committee, Members were presented with sufficient evidence demonstrating the agreed position of Denbighshire County Council with regard to working within the sub-region to deliver sufficient mineral reserve across the plan period, however this was not taken into consideration at Committee.

5. Conclusions

- 5.1 The Appellant is pleased that the Council have decided to not defend RfRs 1 and 2, however, in terms of RfR 3, it is considered that there are no technical or evidential considerations which outweigh the evidence presented during the determination of the application, the findings of the technical consultees and LPA officers together with the positive development plan compliance, and none are advanced by DCC whose case is confined to subjective amenity concerns.
- 5.2 The extent to which the Appellants have met the obligation to avoid unacceptable impacts and minimise / control amenity impacts to within acceptable limits can be judged by the responses from statutory consultees and the detailed appraisal of the Planning Officer in the Committee Report which confirmed that there were no issues which would justify a refusal of planning permission for the development.
- 5.3 It is thus the Appellant's evidence, informed by the conclusions of the ES, responses from technical consultees and the Committee Report that all environmental and amenity issues associated with the Appeal scheme can be appropriately regulated by planning conditions.
- 5.4 The Council's SoC does not satisfactorily substantiate its case that the proposed works could be undertaken without giving rise to adverse impacts or that suitable controls would fail to mitigate the amenity impacts.

**Appendix 1 – Email Correspondence between LPA and the Appellant
regarding suggested condition to address RfR 3**

From: [Liam Toland](#)
To: [James Suter](#)
Cc: [Maria Cotton](#); [Chris Burgess](#)
Subject: RE: Denbigh Quarry Appeal
Date: 08 January 2025 09:05:00
Attachments: [Con26 submitted 2303 Denbigh Blasting Management Protocol - Breedon EPC-UK v2.pdf](#)
[01-2019-0757 v2.pdf](#)
[D02 - 24 Blast.msx](#)
[D01-24 Blast.msx](#)
[CYH Blasting Conditions.pdf](#)

Dear James,

I am just writing in response to your email below and the DRAFT suggested additional condition regarding blasting.

In terms of blasting and approved conditions at Denbigh Quarry, a Blasting Impact Management Protocol (attached) was approved on 08/12/2023 (Condition Numbers 26 of Planning Permission Code No. 01/2019/0757 – see attached). Therefore, we consider that blasting at Denbigh Quarry is already covered by appropriate blasting controls to manage and mitigate against the environmental impact of blasting on-site, which was approved by the Council just over a year ago. I have also attached the results of the last blast which took place in August '24 – AoP of 106 and the blast before that in April '24 – AoP of 112.

Furthermore, we would draw your attention to the blasting conditions for Craig yr Hesg Quarry (attached), which were imposed after appeal, by the Welsh Ministers in 2022. The Appellant considers that these conditions are more detailed in some respects than the conditions on the Officer's report for Denbigh Quarry with the further advantage of these conditions is that they already have the approval of an experienced Inspector and of the Welsh Ministers.

Therefore, on the basis of the above, the Appellant (Without Prejudice Saved as to Costs) proposes the following:

1. The Council agrees that the approved Blasting Impact Management Protocol and/or the conditions approved for Craig yr Hesg Quarry are appropriate and suitable to mitigate nuisance from air blasts from blasting at Denbigh Quarry;
2. The Council signs a Statement of Common Ground (SoCG) agreeing that planning permission should be granted subject to conditions which form a part of the SoCG; and
3. The Appellant agrees not to apply for its costs of the appeal.

If the Council do not agree to the above, the Appellant will progress with an application for costs on the basis that it is unreasonable to refuse permission which could have been granted subject to appropriate conditions.

We would appreciate if the above could be given some consideration and we look forward to the Council's response.

Regards

Liam Toland

From: James Suter <james.suter@NorthWalesPlanning.wales>

Sent: 20 December 2024 13:33

To: Maria Cotton <Maria.Cotton@breedongroup.com>; liamtolandplanning@outlook.com; Chris Burgess <Chris.Burgess@breedongroup.com>

Subject: RE: Denbigh Quarry Appeal

Hello,

Thank you again Maria for your time on Wednesday. Further to that conversation please see below DRAFT suggested additional condition. This condition would seek to mitigate nuisance from air blasts from blasting.

Please may you advise whether this condition would be agreeable for your side.

Prior to commencement of any blasting following the grant of this Consent the Applicant will prepare a scheme of air blast monitoring and improvement with the aim of limiting at source and managing the air blast wave from blasting. This scheme will include as a minimum: -

i.

Full details of the proposed monitoring for the measurement of the air blast wave including details of the instrumentation to be used and details of how and where this instrumentation will be deployed.

ii.

Justification for the selection of air blast wave monitoring locations.

iii.

Details of the initial blast designs for each part of the quarry that will be implemented and how these designs have been developed to limit the impact of the air blast wave.

iv.

Protocols for reviewing the air blast wave monitoring data and using the findings to, where necessary, make amendments to the blast designs to mitigate any adverse air blast wave impacts. Such reviews to be carried out and reported to the Planning Authority at intervals no greater than every six months for the first two years then annually in subsequent years.

v.

Procedures for monitoring local weather conditions including ambient wind speed and gusts so that the air blast wave measurements from blasting can be evaluated in the context of the prevailing wind conditions at the time of the blast.

vi.

Procedure for evaluating complaints along with the results of monitoring and providing a report to the Planning Authority that presents an analysis of the correlation between complaints and the air blast wave measurements.

No Blasting will take place until the above scheme of air blast monitoring has been approved in writing by the Planning Authority.

Kind regards,

James

James Suter

Uwch Swyddog Cynllunio | Senior Planning Officer
Gwasanaeth Cynllunio Mwynau a Gwastraff Gogledd Cymru | North Wales Minerals and Waste Planning Service
Cynllunio, Amgylchedd ac Economi | Planning, Environment & Economy
Cyngor Sir y Fflint | Flintshire County Council

Saesneg | English: Ffôn | Tel: 01352 703266 Ffôn symudol | Mobile: 07386656190
Cymraeg | Welsh: Ffôn | Tel: 01267 224923
Ebost | Email: james.suter@CynllunioGogleddCymru.cymru |
james.suter@NorthWalesPlanning.wales
Ebost | Email | mwynauagwastraff@CynllunioGogleddCymru.cymru |
mineralsandwaste@NorthWalesPlanning.wales

<http://www.sirymfflint.gov.uk> | <http://www.flintshire.gov.uk>
<http://www.twitter.com/csyfflint> | <http://www.twitter.com/flintshirecc>



Gyda'n gilydd gallwn ni i gyd helpu i gadw **Sir y Fflint** yn ddiogel
Together we can all help to keep **Flintshire** safe

Cyn argraffu yr e bôst hon, ystyriwch eich cyfrifoldeb amgylcheddol os gwelwch yn dda.
Please consider your environmental responsibility before printing this email.

Rydym yn gweithio'n hyblyg yn Cyngor Sir y Fflint – felly, er ei fod yn addas i mi e-bostio nawr, nid wyf yn disgwyl ymateb na gweithred y tu allan l'ch oriau gwaith eich hun.

At Flintshire County Council we work flexibly – so whilst it suits me to email now, I do not expect a response or action outside your own working hours.

From: Maria Cotton <Maria.Cotton@breedongroup.com>
Sent: Wednesday, December 18, 2024 11:16 AM
To: James Suter <james.suter@NorthWalesPlanning.wales>
Subject: RE: Denbigh Quarry Appeal

CAUTION: This email has reached Flintshire County Council from an external source. Please be extra cautious prior to opening any links or attachments, particularly

if you weren't expecting the email or don't recognise the sender.

Teams might be better, James. My phone signal is sketchy at best.

Maria Cotton
Planning and Estates Manager

Maria.Cotton@breedongroup.com

Mob: 07887418514

Main Street, Breedon on the Hill, Derby. DE73 8AP
www.breedongroup.com

Please consider your environmental responsibility before printing this e-mail

This electronic message contains information from Breedon Trading Limited and its contents are private and confidential and may contain information which is legally privileged. If you have received this message in error, please notify us and remove it from your system. The recipient should check this email and any attachments for the presence of viruses. Email transmissions cannot be guaranteed to be secure or error free. Breedon Trading Limited accepts no liability for any loss or damage arising from the use of this email or any attachments or transmission of information by email. Any views expressed in this email that do not relate to Breedon Trading Limited official business may not reflect the views of Breedon Trading Limited. All orders for the sale of goods and/or services by Breedon Trading Limited incorporate exclusively Breedon Trading Limited standard terms of sale applicable to the relevant goods (and if applicable services) posted at www.breedongroup.com on the date when the contract is concluded. Please note service of documents by email or fax is not accepted.

Breedon Trading Limited
Registered Office: Pinnacle House, Breedon Quarry, Breedon on the Hill, Derby, DE73 8AP
Registered in England and Wales No. 00156531 VAT Reg No. GB 650 2028 79

From: James Suter <james.suter@NorthWalesPlanning.wales>
Sent: Wednesday, December 18, 2024 11:14 AM
To: Maria Cotton <Maria.Cotton@breedongroup.com>
Subject: RE: Denbigh Quarry Appeal

Hello,

That would work for me. Shall I call your mobile?

James
James Suter

Uwch Swyddog Cynllunio | Senior Planning Officer
Gwasanaeth Cynllunio Mwynau a Gwastraff Gogledd Cymru | North Wales Minerals and Waste Planning Service
Cynllunio, Amgylchedd ac Economi | Planning, Environment & Economy
Cyngor Sir y Fflint | Flintshire County Council

From: Maria Cotton <Maria.Cotton@breedongroup.com>
Sent: Wednesday, December 18, 2024 11:13 AM

To: James Suter <james.suter@NorthWalesPlanning.wales>

Subject: RE: Denbigh Quarry Appeal

CAUTION: This email has reached Flintshire County Council from an external source. Please be extra cautious prior to opening any links or attachments, particularly if you weren't expecting the email or don't recognise the sender.

Does 11.30 suit, James?

Maria Cotton
Planning and Estates Manager

Maria.Cotton@breedongroup.com

Mob: 07887418514

Main Street, Breedon on the Hill, Derby. DE73 8AP
www.breedongroup.com

Please consider your environmental responsibility before printing this e-mail

This electronic message contains information from Breedon Trading Limited and its contents are private and confidential and may contain information which is legally privileged. If you have received this message in error, please notify us and remove it from your system. The recipient should check this email and any attachments for the presence of viruses. Email transmissions cannot be guaranteed to be secure or error free. Breedon Trading Limited accepts no liability for any loss or damage arising from the use of this email or any attachments or transmission of information by email. Any views expressed in this email that do not relate to Breedon Trading Limited official business may not reflect the views of Breedon Trading Limited. All orders for the sale of goods and/or services by Breedon Trading Limited incorporate exclusively Breedon Trading Limited standard terms of sale applicable to the relevant goods (and if applicable services) posted at www.breedongroup.com on the date when the contract is concluded. Please note service of documents by email or fax is not accepted.

Breedon Trading Limited
Registered Office: Pinnacle House, Breedon Quarry, Breedon on the Hill, Derby, DE73 8AP
Registered in England and Wales No. 00156531 VAT Reg No. GB 650 2028 79

From: James Suter <james.suter@NorthWalesPlanning.wales>

Sent: Wednesday, December 18, 2024 11:09 AM

To: Maria Cotton <Maria.Cotton@breedongroup.com>

Subject: RE: Denbigh Quarry Appeal

Hi,

That would be great. I am fairly flexible on times. When would work best for you?

Kind regards,

James

James Suter

Uwch Swyddog Cynllunio | Senior Planning Officer
Gwasanaeth Cynllunio Mwynau a Gwastraff Gogledd Cymru | North Wales Minerals and Waste Planning Service

Saesneg | English: Ffôn | Tel: 01352 703266 Ffôn symudol | Mobile: 07386656190
Cymraeg | Welsh: Ffôn | Tel: 01267 224923
Ebostr | Email: james.suter@CynllunioGogleddCymru.cymru |
james.suter@NorthWalesPlanning.wales
Ebostr | Email | mwynauagwastraff@CynllunioGogleddCymru.cymru |
mineralsandwaste@NorthWalesPlanning.wales

<http://www.sirymfflint.gov.uk> | <http://www.flintshire.gov.uk>
<http://www.twitter.com/csyfflint> | <http://www.twitter.com/flintshirecc>



Gyda'n gilydd gallwn ni i gyd helpu i gadw Sir y Fflint yn ddiogel
Together we can all help to keep Flintshire safe

Cyn argraffu yr e bôst hon, ystyriwch eich cyfrifoldeb amgylcheddol os gwelwch yn dda.
Please consider your environmental responsibility before printing this email.

Rydym yn gweithio'n hyblyg yn Cyngor Sir y Fflint – felly, er ei fod yn addas i mi e-bostio nawr, nid wyf yn disgwyl ymateb na gweithred y tu allan l'ch oriau gwaith eich hun.

At Flintshire County Council we work flexibly – so whilst it suits me to email now, I do not expect a response or action outside your own working hours.

From: Maria Cotton <Maria.Cotton@breedongroup.com>
Sent: Wednesday, December 18, 2024 10:57 AM
To: James Suter <james.suter@NorthWalesPlanning.wales>
Subject: RE: Denbigh Quarry Appeal

CAUTION: This email has reached Flintshire County Council from an external source. Please be extra cautious prior to opening any links or attachments, particularly if you weren't expecting the email or don't recognise the sender.

Hi James,

I'm on annual leave, although am online today for various reasons. I could do a call today?

Thanks,

Maria

Maria Cotton
Planning and Estates Manager

Maria.Cotton@breedongroup.com

Mob: 07887418514

Main Street, Breedon on the Hill, Derby. DE73 8AP
www.breedongroup.com

Please consider your environmental responsibility before printing this e-mail

This electronic message contains information from Breedon Trading Limited and its contents are private and confidential and may contain information which is legally privileged. If you have received this message in error, please notify us and remove it from your system. The recipient should check this email and any attachments for the presence of viruses. Email transmissions cannot be guaranteed to be secure or error free. Breedon Trading Limited accepts no liability for any loss or damage arising from the use of this email or any attachments or transmission of information by email. Any views expressed in this email that do not relate to Breedon Trading Limited official business may not reflect the views of Breedon Trading Limited. All orders for the sale of goods and/or services by Breedon Trading Limited incorporate exclusively Breedon Trading Limited standard terms of sale applicable to the relevant goods (and if applicable services) posted at www.breedongroup.com on the date when the contract is concluded. Please note service of documents by email or fax is not accepted.

Breedon Trading Limited
Registered Office: Pinnacle House, Breedon Quarry, Breedon on the Hill, Derby, DE73 8AP
Registered in England and Wales No. 00156531 VAT Reg No. GB 650 2028 79

From: James Suter <james.suter@NorthWalesPlanning.wales>

Sent: Wednesday, December 18, 2024 10:51 AM

To: Maria Cotton <Maria.Cotton@breedongroup.com>

Subject: Denbigh Quarry Appeal

Hello Maria,

I hope you are well.

Do you have any time this week for a short conversation (no more than 20 minutes) regarding the appeal? The purpose would be to briefly discuss the various options when handling the appeal. It would be helpful to meet in advance of documents being drafted for the planning committee to be held on 15th January 2024. I don't think there would be any need to involve anyone else at this time.

Kind regards,

James Suter

Uwch Swyddog Cynllunio | Senior Planning Officer
Gwasanaeth Cynllunio Mwynau a Gwastraff Gogledd Cymru | North Wales Minerals and Waste Planning Service
Cynllunio, Amgylchedd ac Economi | Planning, Environment & Economy

Saesneg | English: Ffôn | Tel: 01352 703266 Ffôn symudol | Mobile: 07386656190

Cymraeg | Welsh: Ffôn | Tel: 01267 224923

Ebost | Email: james.suter@CynllunioGogleddCymru.cymru |

james.suter@NorthWalesPlanning.wales

Ebost | Email | mwynauagwastraff@CynllunioGogleddCymru.cymru |

mineralsandwaste@NorthWalesPlanning.wales

<http://www.sirymfflint.gov.uk> | <http://www.flintshire.gov.uk>

<http://www.twitter.com/csyfflint> | <http://www.twitter.com/flintshirecc>



Gyda'n gilydd gallwn ni i gyd helpu i gadw Sir y Fflint yn ddiogel

Together we can all help to keep Flintshire safe

Cyn argraffu yr e bôst hon, ystyriwch eich cyfrifoldeb amgylcheddol os gwelwch yn dda.

Please consider your environmental responsibility before printing this email.

Rydym yn gweithio'n hyblyg yn Cyngor Sir y Fflint – felly, er ei fod yn addas i mi e-bostio nawr, nid wyf yn disgwyl ymateb na gweithred y tu allan l'ch oriau gwaith eich hun.

At Flintshire County Council we work flexibly – so whilst it suits me to email now, I do not expect a response or action outside your own working hours.

Appendix 2 – Blast Monitoring Results

23 April 2024

BLAST REPORT
DRILLING / BLASTING REPORT

SITE NAME	DENBIGH		BLAST REFERENCE		D01		DATE OF BLAST		23/04/2025		
BLAST LOCATION		SINKING									
DRILLING											
DRILLER/S		B.SAGENTSON		RIG NUMBER/S		19		METERS DRILLED		1,202.8	
ADDITIONAL DRILL INFORMATION			RE DRILL METERS								
BLASTING											
NOMINAL / AVERAGE BURDEN (m)		3.50		NOMINAL / AVERAGE SPACING (m)		3.20		AVERAGE DEPTH WITH SUBDRILL (m)		14.8	
ROCK DENSITY (t/m ³)		2.60		NUMBER OF HOLES		81		HOLE DIAMETER (mm)		110	
PROPOSED FLOOR (masl)		92.0		CRITICAL BURDEN (m)		2.8		MIC (kg)		80	
INITIATION TYPE		ELECTRONIC H2		NUMBER OF DECKS		2		BLAST PATTERN (MARK WITH X)			
BLAST VOLUME		12,973		TONNES		33,730					
EXPLOSIVES											
EXPLOSIVES (EXTRA = Spares Used or any Excess Destroyed)					ACCESSORIES (EXTRA = Spares Used or any Excess Destroyed)						
Type		Target		Actual		Extra		Total			
BOOSTER		162		165		3		165			
								Daveytronic-20		81	
								E100ms-18		81	
Blendex 80 (kg)		9874		9874		1794		Daveytronic-15		81	
10T								E100ms-15		81	
								EXTEN DERS		2	
								BUZ WIRE		2	
BLAST RATIO (t/kg)		3.42						H2 CONNECTORS (PACK OF)		1	
* All EXTRA Explosives and Accessories to be clearly identified on Loading Diagrams and Delay Plans											
EXPLOSIVES SUPPLIER		EPC		MEMU ID		51		DELIVERY REFERENCE NUMBER		002973	
ENVIRONMENTAL											
MONITORING POSITION		CLOUGH FARM		CO ORDINATES							
CLOSEST HOLE		9		DISTANCE		526.93		CO ORDINATES			
TIME OF BLAST		13:34		WEATHER CONDITIONS		BUNNY, DRY		PPV		3.5	
								AOP		118	
ADDITIONAL INFORMATION / CHARGES											
Additional Shotfirer		/		Haulage Costs		/		Additional Explosives		/	
Explosives Supervisor		YES		Additional Drilling		/		Additional Detonators		/	
Additional Vibrographs		YES		Pre Splitting		/		Other Costs		/	
POST BLAST COMMENTS											
Hole 59 SHORT - TOP DECK ONLY. NO OTHER ISSUES. MOST HOLES WET. ALL HOLES CHARGED, TNGED. ALL EXTRAS DESTROYED. ALL BOXES BURNT AFTER BLAST. GOOD THROW. GOOD FRAGMENTATION											
APPROVAL SIGNATURES (all the above has been completed and agreed with Quarry Management)											
SHOTFIRER		EXPLOSIVES SUPERVISOR		QUARRY APPROVED		P/O NUMBER RAISED					
/		G. Jones 23/4/24		/							
NOTES											
BRYN SEION PPV: 1.6 AOP: 112 DISTANCE 473.7m CLOSEST HOLE: 37											



D01-24
81 Holes Decked
MIC = 80Kgs
Sinking
J D Jones /
M Kubatek
Bryn Seion

File Name: 6372202305221300139.dtb
Number: 139
Date: 23/04/2024
Time: 13.33
Serial Number: 6373
Seismic Trigger: 0.508 mm/sec
Acoustic Trigger: 142 dB
Sample Rate: 1024
Duration: 4.0 Seconds
Pre-Trigger: 0.50 Seconds
Gain: 8x
Voltage: 6.0

Amplitudes and Frequencies

Acoustic: 112 dB, 0.12 Mb @ 8.5 Hz

Radial: 1.350 mm/sec @ 32.0Hz

Vertical: 1.698 mm/sec @ 85.3Hz

Transverse: 1.489 mm/sec @ 13.8Hz

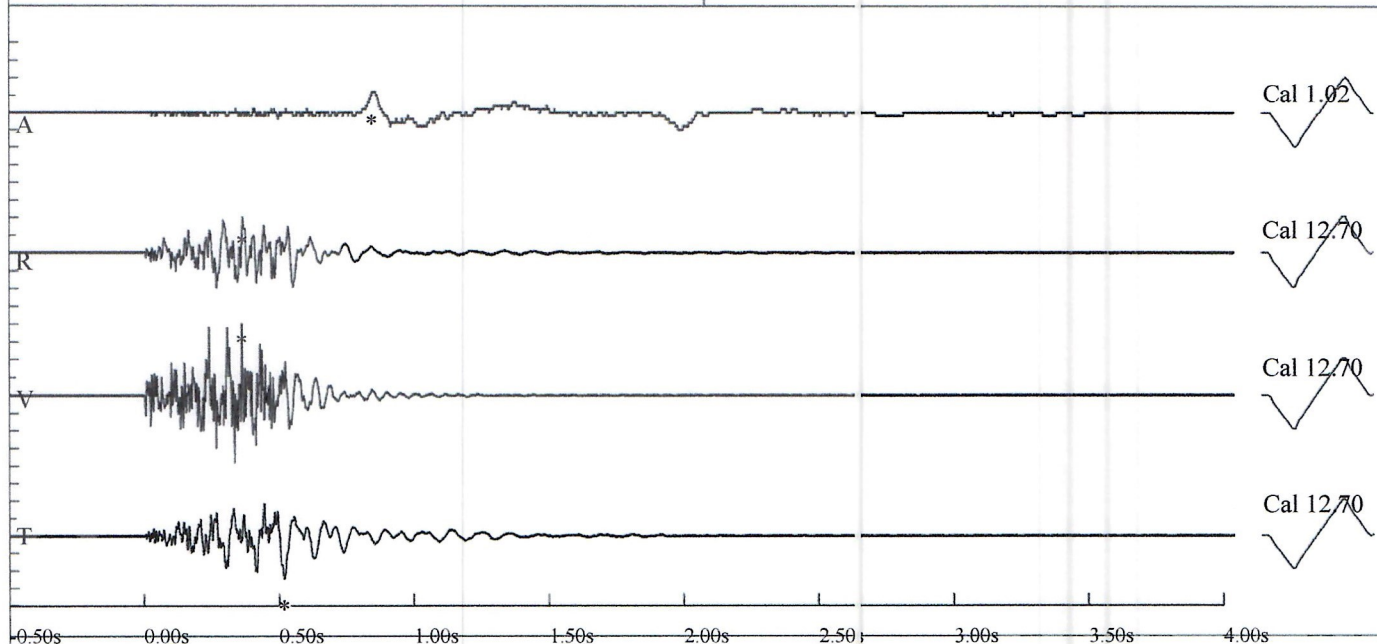
Graph Information

Duration: -0.500 s To: 4.000 s

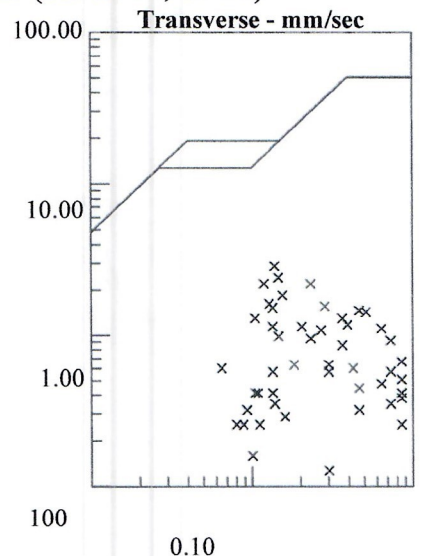
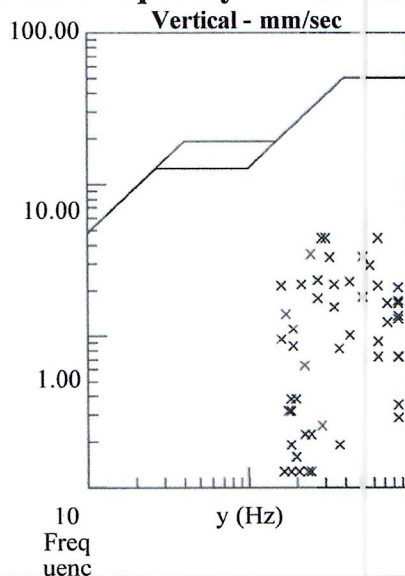
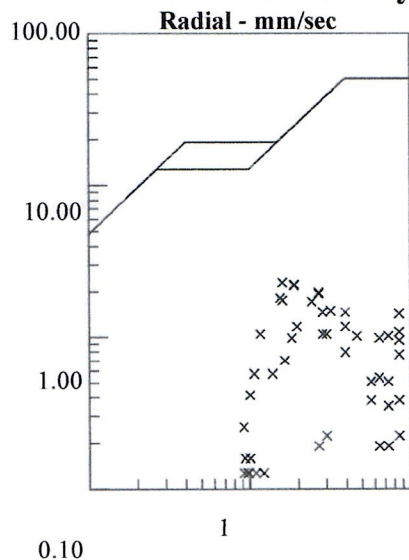
Acoustic Scale: 126 dB

Seismic Scale: 4.70 mm/sec (1.175 mm/sec/div)

Time Intervals at: 0.50 s



Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980)



Velocity

Event Details

Date: 23/4/24

D01-24

Time: 13.32

Serial Number: 0023 FM301

Last Calibration: 05/07/2023

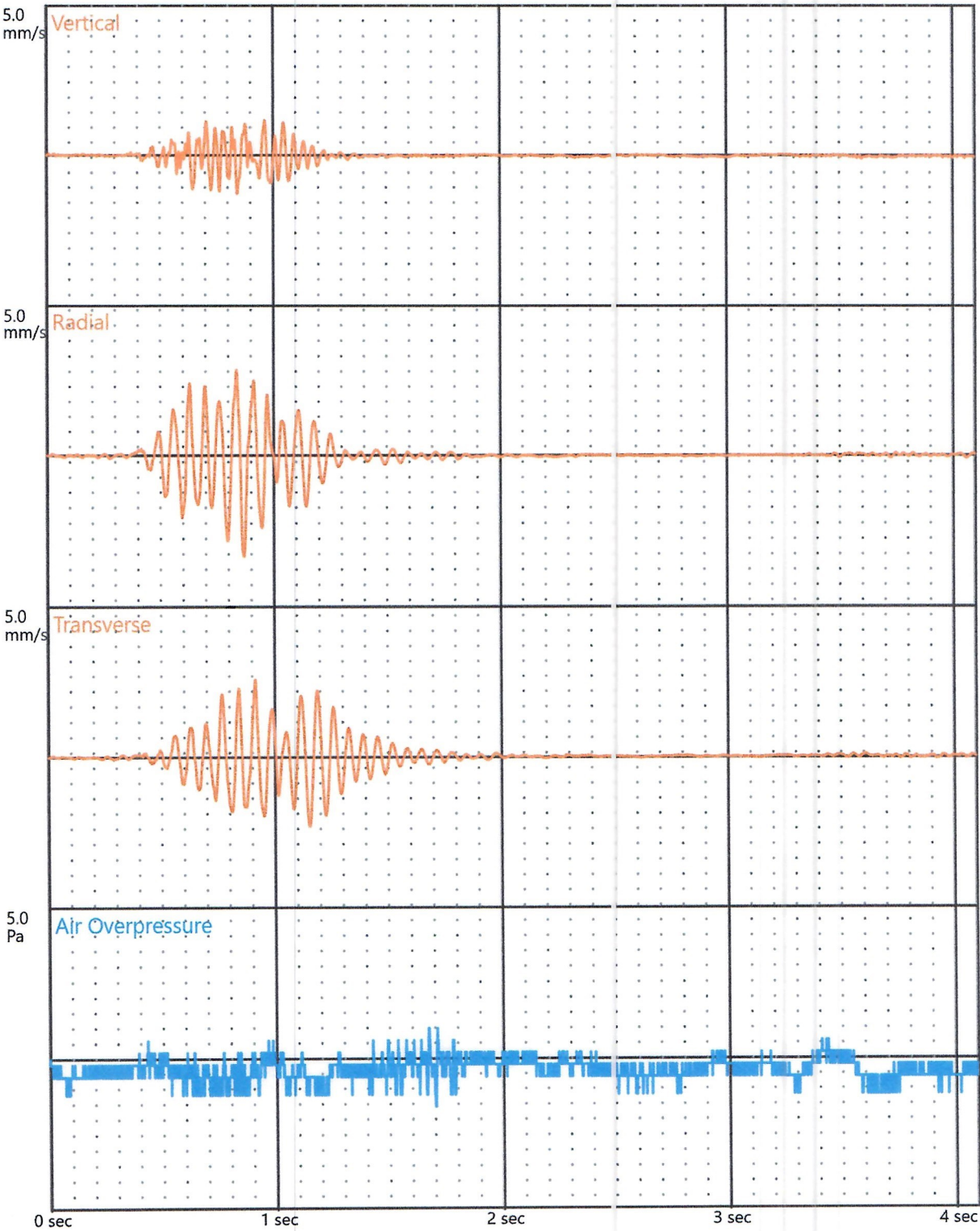
E/S - J D JONES Sh/F – M Kubatek

Comments 81 Holes Decked

Industrial Est House

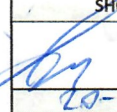
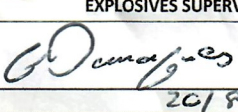
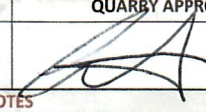
MIC = 80 Kgs

	PPV	Freq	PPA	Freq
	(mm/s)	(Hz)	(g)	(Hz)
Vertical	3.290	20.8	0.0272	55.4
Radial	3.330	20.8	0.0430	16.1
Transverse	3.579	14.3	0.0292	16.6
Resultant	3.579		0.0482	
	PAoP		Freq	
	(dBL)	(Pa)	(Hz)	
Peak AoP	118.0	2.520	17.8	



20 August 2024

BLAST REPORT DRILLING / BLASTING REPORT

SITE NAME		DENBIGH		BLAST REFERENCE		D02		DATE OF BLAST		20/9/24	
BLAST LOCATION											
DRILLING											
DRILLER/S		B.CARSON		RIG NUMBER/S		16		METERS DRILLED		1,100.7	
ADDITIONAL DRILL INFORMATION								RE DRILL METERS			
BLASTING											
NOMINAL / AVERAGE BURDEN (m)		3.50		NOMINAL / AVERAGE SPACING (m)		3.20		AVERAGE DEPTH WITH SUBDRILL (m)		21.2	
ROCK DENSITY (t/m ³)		2.60		NUMBER OF HOLES		52		HOLE DIAMETER (mm)		110	
PROPOSED FLOOR (masl)		108.0		CRITICAL BURDEN (m)		2.8		MIC (kg)		80	
INITIATION TYPE		ELECTRONIC H2		NUMBER OF DECKS		2/3		BLAST PATTERN (MARK WITH X)			
STAGGERED		X		SQUARE							
BLAST VOLUME				12,056				TONNES		31,345	
EXPLOSIVES											
EXPLOSIVES (EXTRA = Spares Used or any Excess Destroyed)						ACCESSORIES (EXTRA = Spares Used or any Excess Destroyed)					
Type		Target	Actual	Extra	Total	Type		Target	Actual	Extra	Total
BOOSTER		119	122	3	122	Daveytronic-25		52	56	4	56
						E100ms-24		52	54	2	54
Blendex 80 (kg)		8581	8581	—	8581	Daveytronic-15		52	52	0	52
9T						E100ms-15		52	52	0	52
						Daveytronic-10		15	15	0	15
						E100ms-10.2		15	15	0	15
						EXTEN DERS		2	2	0	2
						BUZ WIRE		1	1	0	1
BLAST RATIO (t/kg)		3.65				H2 CONNECTORS (PACK OF)		1	1	0	1
* All EXTRA Explosives and Accessories to be clearly identified on Loading Diagrams and Delay Plans											
EXPLOSIVES SUPPLIER		EPC		MEMU ID		M851		DELIVERY REFERENCE NUMBER		004783	
ENVIRONMENTAL											
MONITORING POSITION		Bryn Seion		CO ORDINATES							
CLOSEST HOLE		41		DISTANCE		496.2m		CO ORDINATES			
TIME OF BLAST		13.39		WEATHER CONDITIONS		Dry, sunny		PPV		4.1	
								AOP		120	
ADDITIONAL INFORMATION / CHARGES											
Additional Shotfirer		NO		Haulage Costs				Additional Explosives			
Explosives Supervisor		YES		Additional Drilling				Additional Detonators			
Additional Vibrographs		Yes 1 extra		Pre Splitting				Other Costs			
POST BLAST COMMENTS											
<p>11 11 Hole 6 re primed See loading sheets otherwise all holes charged to speck, Good throw and fragmentation Boxes burnt after blast</p>											
APPROVAL SIGNATURES (all the above has been completed and agreed with Quarry Management)											
SHOTFIRER		EXPLOSIVES SUPERVISOR		QUARRY APPROVED		P/O NUMBER RAISED					
 20-9-24		 20/9/24		 							
NOTES											
Clough farm PPV 4.3 No distances AOP 106											

D02-24

Bryn Seion

52 Holes 15 Tripple Decked / 37 Decked

Mic = 80Kgs

J D Jones

S Jones

#90m.

File Name: 5736202408201303297.dtb

Number: 297

Date: 20/08/2024

Time: 13:39

Serial Number: 5736

Seismic Trigger: 0.572 mm/sec

Acoustic Trigger: 142 dB

Sample Rate: 1024

Duration: 4.0 Seconds

Pre-Trigger: 0.50 Seconds

Gain: 8x

Voltage: 6.4

Amplitudes and Frequencies

Acoustic: 120 dB, 0.20 Mb @ 3.0 Hz

Radial: 4.128 mm/sec @ 42.6Hz

Vertical: 3.239 mm/sec @ 46.5Hz

Transverse: 3.366 mm/sec @ 18.2Hz

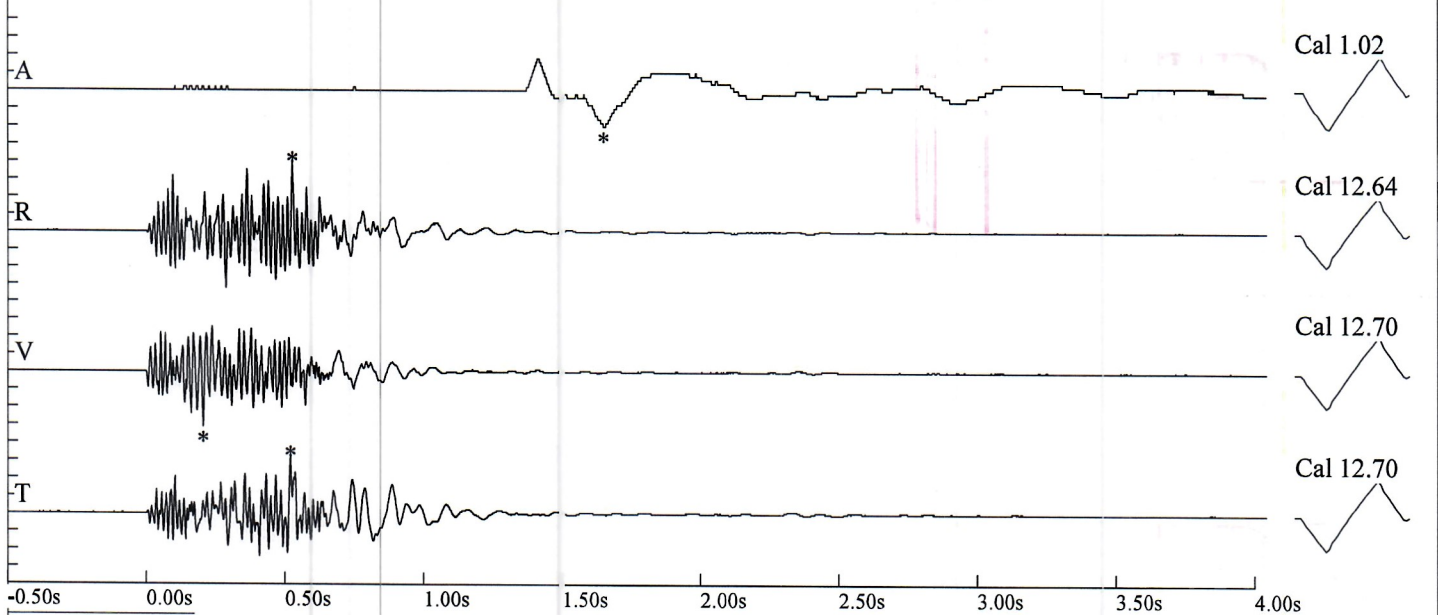
Graph Information

Duration: -0.500 s To: 4.000 s

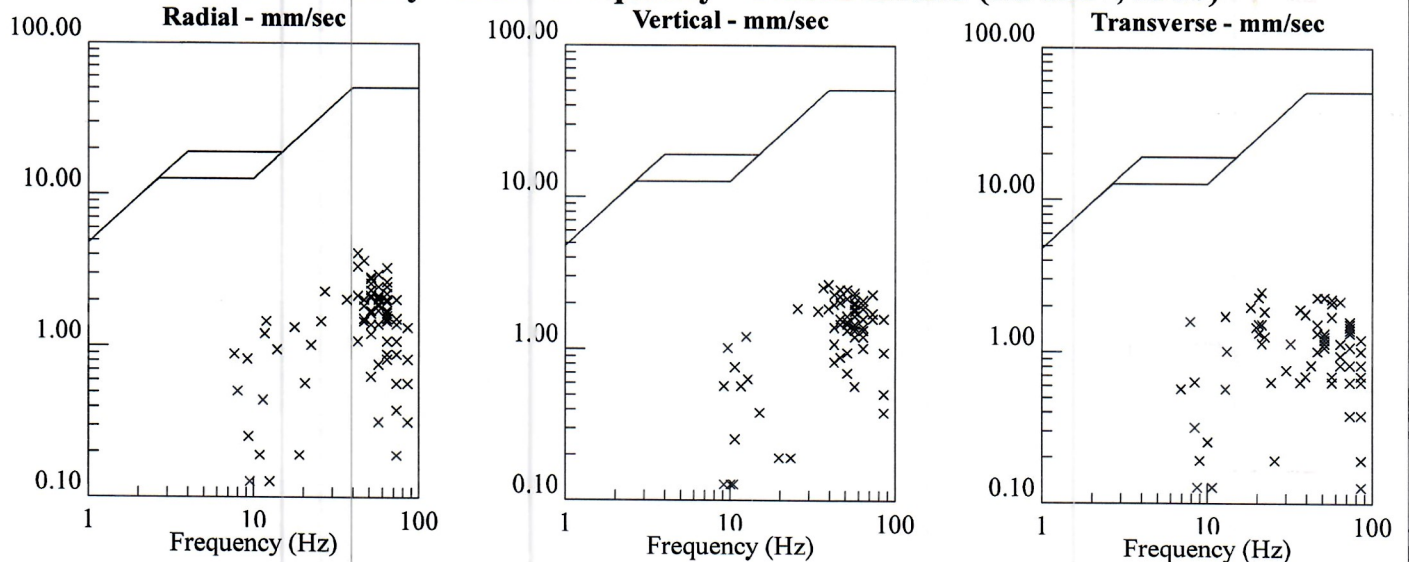
Acoustic Scale: 126 dB

Seismic Scale: 4.15 mm/sec (1.038 mm/sec/div)

Time Intervals at: 0.50 s



Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980)



Clough Farm.

Quang-20 20/8/24
15:00

Selected Files

C:\Program Files (x86)\White Industrial Seismology, Inc\Seismograph Data Analy:

Record Name	Number	Date	Time	PPV (mm/sec)
3662202408201432088.dtb	88	20/08/2024	13:41	4.318

sis V9

Acoustic (dB)
106

Acoustic (Mb) Comments
0.04 Summary Data Only

28 January 2025

SITE NAME		DENBIGH		BLAST REFERENCE		D01		DATE OF BLAST		28/01/2025									
BLAST LOCATION			QUARRY FLOOR LOWERING																
DRILLING																			
DRILLER/S		T.BAILY			RIG NUMBER/S		11		METERS DRILLED		619.0								
ADDITIONAL DRILL INFORMATION									RE DRILL METERS										
BLASTING																			
NOMINAL / AVERAGE BURDEN (m)		3.20		NOMINAL / AVERAGE SPACING (m)		3.20		AVERAGE DEPTH WITH SUBDRILL (m)		4.1		AMOUNT OF SUBDRILL (m)		0.5					
ROCK DENSITY (t/m ³)		2.60		NUMBER OF HOLES		150		HOLE DIAMETER (mm)		110		METERS FIRED		619.5					
PROPOSED FLOOR (masl)		106.5		CRITICAL BURDEN (m)		2.6		MIC (kg)		32		LOADING RATE (kg/m)		13.3					
INITIATION TYPE		ELECTRONIC H2		NUMBER OF DECKS		1		BLAST PATTERN (MARK WITH X)				STAGGERED		<input checked="" type="checkbox"/> SQUARE					
BLAST VOLUME			5,530			TONNES			14,377										
EXPLOSIVES																			
EXPLOSIVES (EXTRA = Spares Used or any Excess Destroyed)						ACCESSORIES (EXTRA = Spares Used or any Excess Destroyed)													
Type		Target		Actual		Extra		Total		Type		Target		Actual		Extra		Total	
BOOSTER		150		155		5		155		Daveytronic-10		150		154		4		154	
										E100ms-10.2		150		152		2		152	
Blendex 80 (kg)		2567		2567		267													
3T																			
										Boz Line									
										HARNESS CONNECTING WIRE		2		2		0		2	
BLAST RATIO (t/kg)		5.60								H2 CONNECTORS (PACK OF)		3		3		0		3	
* All EXTRA Explosives and Accessories to be clearly identified on Loading Diagrams and Delay Plans																			
EXPLOSIVES SUPPLIER		EPC		MEMU ID		33		DELIVERY REFERENCE NUMBER		007125									
ENVIRONMENTAL																			
MONITORING POSITION		Beyu Secon		CO ORDINATES															
CLOSEST HOLE		33		DISTANCE		445		CO ORDINATES											
TIME OF BLAST		13.58		WEATHER CONDITIONS		RAIN OVERCAST		PPV		2.9		AOP		106					
ADDITIONAL INFORMATION / CHARGES																			
Additional Shotfirer		/		Haulage Costs		/		Additional Explosives		/									
Explosives Supervisor		yes		Additional Drilling		/		Additional Detonators		/									
Additional Vibrographs		yes ①		Pre Splitting		/		Other Costs		/									
POST BLAST COMMENTS																			
HOLE NO16 Det NOT Responding used spare ON Hybrid (AG) Lifed well - Good Fragmentation																			
APPROVAL SIGNATURES (all the above has been completed and agreed with Quarry Management)																			
SHOTFIRER		EXPLOSIVES SUPERVISOR				QUARRY APPROVED				P/O NUMBER RAISED									
/		AG				/													
NOTES AND STOPPAGES																			
Planned Blast Time:				Comments / Reasons:															
Actual Blast Time:																			
Reason for Delay:																			



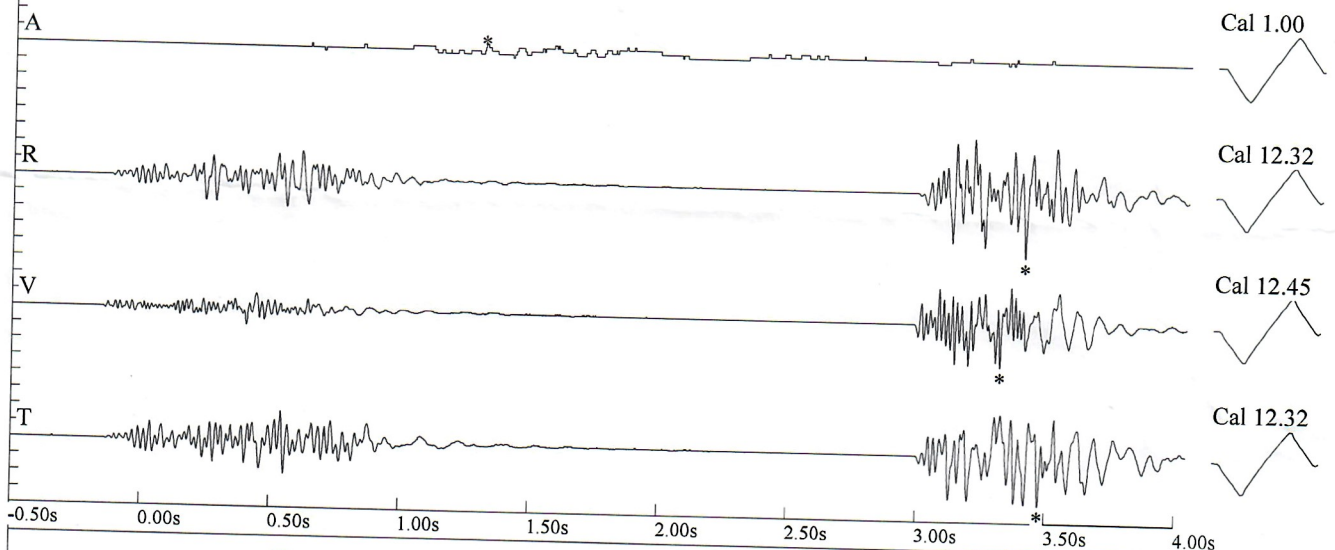
DENBIGH : D01 - D02-25
BRYN SEION: 441.3m
E/S: ANTHONY EVANS
S/F: M.KUBATEK / S.JONES
MIC: 80Kg D02-25
48 HOLES : 3 DECKS

D01-25 : 150 Holes M.C : 32 Kg

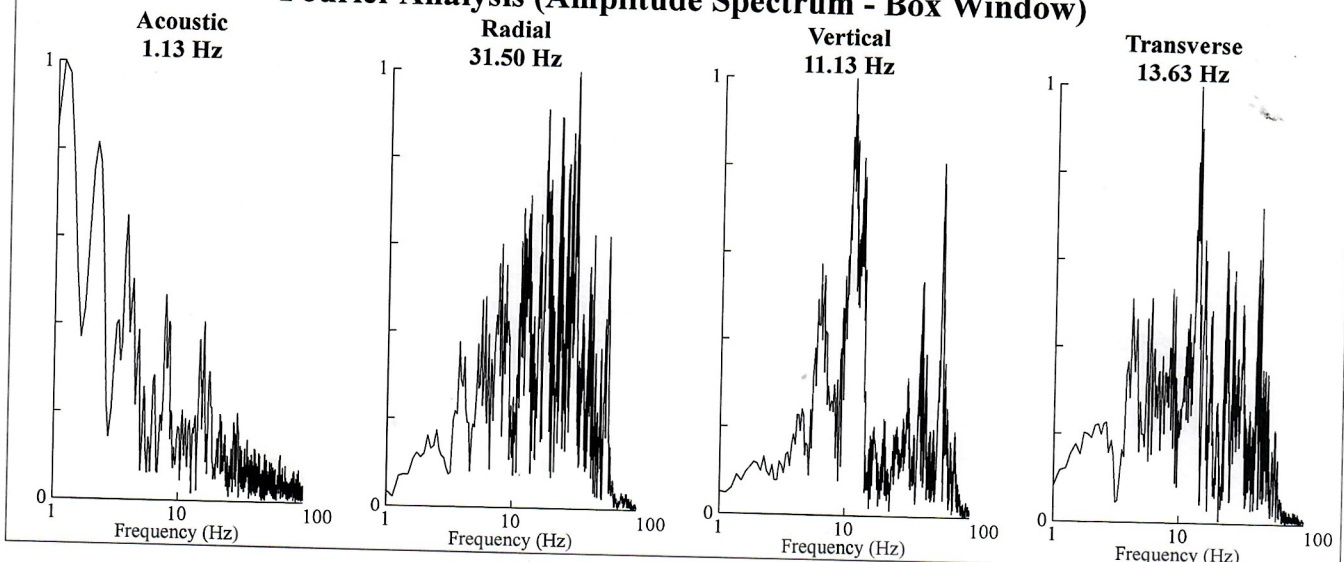
File Name: 6373202501281305129.dtb
 Number: 129
 Date: 28/01/2025
 Time: 13:57
 Serial Number: 6373
 Seismic Trigger: 0.508 mm/sec
 Acoustic Trigger: 142 dB
 Sample Rate: 1024
 Duration: 4.0 Seconds
 Pre-Trigger: 0.50 Seconds
 Gain: 8x
 Voltage: 6.3

Amplitudes and Frequencies
Acoustic: 106 dB, 0.04 Mb @ 0.0 Hz
Radial: 2.953 mm/sec @ 26.9Hz
Vertical: 1.937 mm/sec @ 46.5Hz
Transverse: 2.191 mm/sec @ 32.0Hz

Graph Information
Duration: -0.500 s To: 4.000 s
Acoustic Scale: 126 dB
Seismic Scale: 3.00 mm/sec (0.750 mm/sec/div)
Time Intervals at: 0.50 s



Fourier Analysis (Amplitude Spectrum - Box Window)



BLAST REPORT
DRILLING / BLASTING REPORT

SITE NAME	DENBIGH		BLAST REFERENCE		D02		DATE OF BLAST		28/01/2025										
BLAST LOCATION		2ND LEVEL DOWN																	
DRILLING																			
DRILLER/S		barry carson			RIG NUMBER/S		16		METERS DRILLED		1,006.0								
ADDITIONAL DRILL INFORMATION									RE DRILL METERS										
BLASTING																			
NOMINAL / AVERAGE BURDEN (m)		3.50		NOMINAL / AVERAGE SPACING (m)		3.20		AVERAGE DEPTH WITH SUBDRILL (m)		21.0		AMOUNT OF SUBDRILL (m)		0.5					
ROCK DENSITY (t/m ³)		2.60		NUMBER OF HOLES		48		HOLE DIAMETER (mm)		110		METERS FIRED		1,005.6					
PROPOSED FLOOR (masl)		106.5		CRITICAL BURDEN (m)		-20% Nominal		2.8		MIC (kg)		80		LOADING RATE (kg/m)		13.3			
INITIATION TYPE		ELECTRONIC H2		NUMBER OF DECKS		3		BLAST PATTERN (MARK WITH X)				STAGGERED		x		SQUARE			
BLAST VOLUME			11,011			TONNES			28,654										
EXPLOSIVES																			
EXPLOSIVES (EXTRA = Spares Used or any Excess Destroyed)						ACCESSORIES (EXTRA = Spares Used or any Excess Destroyed)													
Type		Target		Actual		Extra		Total		Type		Target		Actual		Extra		Total	
BOOSTER		144		145		1		145		Daveytronic-25		48		52		4		52	
										E100ms-24		48		50		2		50	
Blendex 80 (kg)		8700		8700		—		7784		Daveytronic-20		48		48		0		48	
9.2										E100ms-18		48		48		0		48	
										Daveytronic-10		48		48		0		48	
										E100ms-10.2		48		48		0		48	
										HARNES CONNECTING WIRE		2		—		—		2	
BLAST RATIO (t/kg)		3.29								H2 CONNECTORS (PACK OF)		2		—		—		2	
* All EXTRA Explosives and Accessories to be clearly identified on Loading Diagrams and Delay Plans																			
EXPLOSIVES SUPPLIER		EPC		MEMU ID		54		DELIVERY REFERENCE NUMBER		007126									
ENVIRONMENTAL																			
MONITORING POSITION		Bryn Seion			CO ORDINATES		—												
CLOSEST HOLE		31		DISTANCE		441.3m		CO ORDINATES		—									
TIME OF BLAST		13:58		WEATHER CONDITIONS		Cloudy, rain		PPV		2.5		AOP		106					
ADDITIONAL INFORMATION / CHARGES																			
Additional Shotfirer		Yes x1		Haulage Costs		—		Additional Explosives		—									
Explosives Supervisor		A.EVANS		Additional Drilling		—		Additional Detonators		—									
Additional Vibrographs		Yes x1		Pre Splitting		—		Other Costs		—									
POST BLAST COMMENTS																			
Few blocked holes, see loading sheet, Third of the holes wet, Good throw in blast pile. Burnt after boxes after blast																			
APPROVAL SIGNATURES (all the above has been completed and agreed with Quarry Management)																			
SHOTFIRER		EXPLOSIVES SUPERVISOR				QUARRY APPROVED				P/O NUMBER RAISED									
28.01.25		A. Evans				[Signature]													
NOTES AND STOPPAGES																			
Planned Blast Time:				Comments / Reasons:															
Actual Blast Time:																			
Reason for Delay:																			

DENBIGH : D01- D02-25
HINES IND. EST.
E/S: ANTHONY EVANS
S/F: M. KUBATEK/ S.JONES
MIC: 80 KG D02-25
48 HOLES: 3 DECKS

D01-25: 150 HOLES MIC: 32 KG

File Name: 4223202501281305097.dtb
Number: 097
Date: 28/01/2025
Time: 13:55
Serial Number: 4223
Seismic Trigger: 0.508 mm/sec
Acoustic Trigger: 142 dB
Sample Rate: 1024
Duration: 4.0 Seconds
Pre-Trigger: 0.50 Seconds
Gain: 8x
Voltage: 6.4

Amplitudes and Frequencies

Acoustic: 100 dB, 0.02 Mb @ 0.0 Hz

Radial: 2.127 mm/sec @ 22.2Hz

Vertical: 0.762 mm/sec @ 46.5Hz

Transverse: 1.080 mm/sec @ 22.2Hz

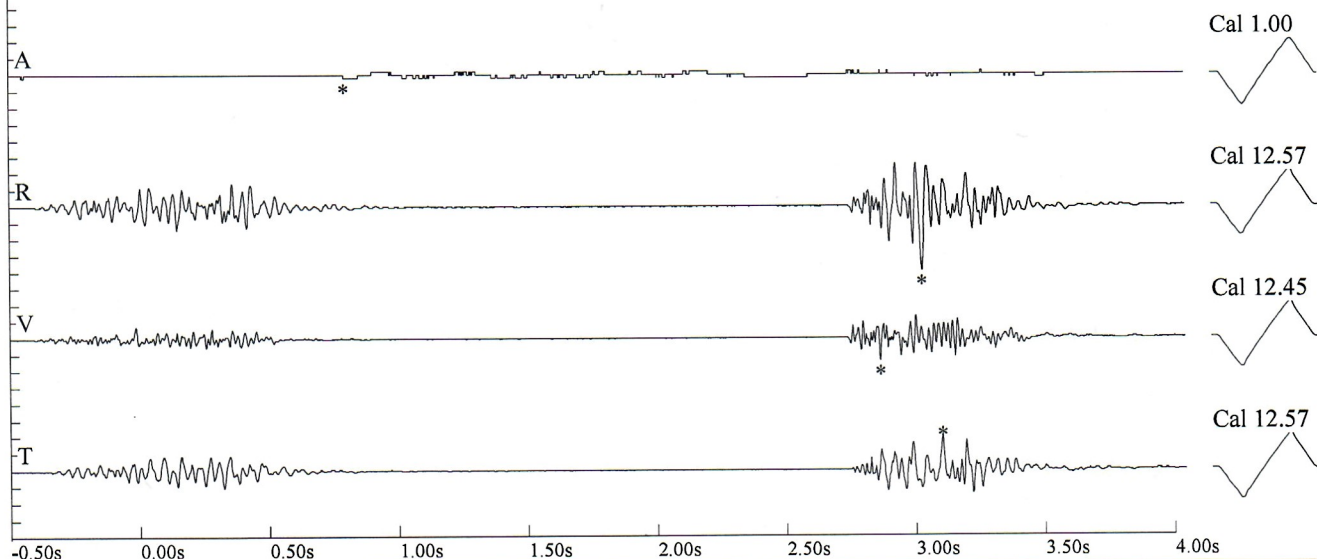
Graph Information

Duration: -0.500 s To: 4.000 s

Acoustic Scale: 126 dB

Seismic Scale: 2.15 mm/sec (0.538 mm/sec/div)

Time Intervals at: 0.50 s



Fourier Analysis (Amplitude Spectrum - Box Window)

