

YENNADON QUARRY

PRODUCT AND ALTERNATIVE SOURCES

FOR

YENNADON STONE LTD.

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1.0 INTRODUCTION

- 1.1.1 An assessment of the stone produced from Yennadon Quarry and its market has been prepared by John Grimes Partnership Ltd on behalf of Yennadon Stone Ltd to accompany the Environmental Statement in support of the extension to Yennadon Quarry. This report should be read in conjunction with the 'Socio-Economic Report' produced by Vickery Holman (Appendix A6-a) and 'Yennadon Stone and the built environment: A review of the important role that stone from the quarry plays in maintaining the character and appearance of the local area' produced by Clifton Emery Design (Appendix A6-c).
- 1.1.2 Yennadon Quarry is currently active. It is proposed to extend the working area of the quarry to the north of the existing working area. In production terms, the dimension stone produced will continue to be extracted at the current rate up to a maximum of 10,000 tonnes per annum (t/a).
- 1.1.3 The quarry operators are seeking the extension to enable production to continue, as a minimum at current extraction rates and up to the maximum permitted, until the current planning permission expires in 2025. The operators intend to continue production up to 2025 regardless of the outcome of this planning application; however if permission is not granted, production levels will decline, resulting in a negative impact on employment and a source of local high quality building stone. Granting planning permission to extend the working area of the quarry will enable the quarry to sustain a viable future and continue to provide an invaluable source of local stone for building and restoration projects.
- 1.1.4 The purpose of this assessment is to provide additional information on the product and market for the stone from Yennadon Quarry, as well as considering the alternatives should the quarry cease operation.

2.0 BUILDING STONE PRODUCT

2.1 Overview of Building Stone in Southwest England

2.1.1 Devon and Cornwall's diverse geology is reflected in the wide range of types of stone that have been used in the construction of local buildings and other structures in the past, and which contribute to the degree of its local distinctiveness.

- 2.1.2 Significant sources of building stone in Devon include Cretaceous limestone (East Devon), Devonian limestone (South Devon), malmstone and chert (East Devon), Triassic and Permian sandstones (East & South East Devon), Culm Measures sandstone (Central & North Devon), Devonian sandstones (North & South Devon), Budleigh Salterton pebble beds (East Devon), granite (Dartmoor), white elvan (South West Devon), basalt and igneous tuff (Exeter, Totnes and Tavistock), dolerite (South Devon) and 'slate' (South, North and West Devon).
- 2.1.3 The most significant source of building stone in Cornwall is granite, which is extracted from a number of quarries throughout the county. Other sources include gabbro/ dolerite/basalt (West and East Cornwall), Seprentine (Lizard Peninsula), Grampound Grit (Mid Cornwall), sandstone (North Cornwall) and 'slate' (East-West Cornwall).
- 2.1.4 The term 'slate' is loosely applied throughout the southwest to the more or less fissile mudstones and siltstones (which have undergone various grades of metamorphism). The nature and appearance of the 'slate' across the region varies greatly from weak to strong, dark to light grey with green or red hues, brown iron oxide staining and quartz veining. Due to their variability, these meta-sedimentary rocks are often labelled as undifferentiated mudstones, siltstones and sandstone on many geological maps. A geological map of Southwest England is provided in Appendix 01 and an extract is provided in Figure 01 showing the locations of Yennadon Quarry and other similar 'slate' quarries in the region.

2.2 The Geology of Yennadon Quarry

2.2.1 The British Geological Survey is currently updating geological maps across the country. As part of this there has been a review of geological formations, which has resulted in the re-naming of some units. The rock formation¹ that Yennadon Quarry is located within is one such unit that has been re-named. Traditionally, this formation was known as the Kate Brook Slate, but is now known as the **Tavy Formation**.

¹ The stratigraphic nomenclature for rock strata of a similar age, lithology, facies, etc. A formation can be sub-divided into series or members.





Figure 01: Extract of Geology Map Showing Locations of Slate Building Stone Quarries

2.2.2 The Tavy Formation is part of the Tamar Group of Devonian sedimentary rocks. The Tavy Formation is Frasnian to Famennian in age. It mainly comprises pale green and grey-green slatey silty MUDSTONE with minor thin fine-grained sandstone beds. The South-West region has undergone 'regional' low-grade metamorphism, which has resulted in the mudstone becoming more "slatey" (cleaved; i.e. the rock is crystallised and platy minerals are realigned to form a slaty cleavage) in some localities. At Yennadon Quarry, the Tavy Formation has also been altered by the nearby Dartmoor Granite intrusion (i.e. 'contact' metamorphosed), which has 'altered' (recrystallized) the mudstone into an Hornfelsed Slate, which has resulted in the stone being

particularly strong and durable in comparison to slates from outside the metamorphic aureole (see Section 3.5 for strength and durability comparison). The extent of Hornfelsed Tavy Formation around Dartmoor is shown in Appendix 02.

2.2.3 The Tavy Formation is sandwiched between two other sedimentary units: the underlying Torpoint Formation (which is a purplish red slaty mudstone) and the overlying Burraton Formation (grey slate).

2.3 Product From Yennadon Quarry

- 2.3.1 Yennadon Quarry extracts a "Rustic Stone", which is the trade name for the regions iron stained slates. The stone from Yennadon Quarry is marketed as "Dartmoor Rustic Stone", which within the building industry has become widely known as "Yennadon Stone". There is a variation in colour from yellowy brown (which is the colour of the iron-stained natural joint faces) through to bluish grey (which is the colour of the cut faces). It has distinct subtleties in colour, tone and patina creating a variegated overall appearance when seen in a wall.
- 2.3.2 Yennadon Quarry is a sustainable local business, purchasing very little from outside Devon/Cornwall. Consumables (labour, fuel, oil, pallets, dumpy bags) are all purchased within the local area.
- 2.3.3 Yennadon Quarry is renowned for providing a high quality strong and robust stone that complies with Building Regulation requirements. Yennadon Stone is not prone to weathering and as a result does not tend to flake or delaminate, unlike some other slate stone types in the region. Yennadon Stone has the right appearance as a natural stone product that can be used both locally and regionally to comply with planning and conservation requirements. Used in:
 - The patching/repairs of existing buildings/structures
 - New developments (buildings/structures/paving)
- 2.3.4 Yennadon Stone Ltd is also renowned by developers for their prompt delivery and dependable supply. Yennadon Quarry is also unique locally for being able to supply developers with commercial quantities of the much sought after 'natural quoins'; i.e. nearly all of the joints (naturally occurring discontinuities) within the rock are virtually set at right angles, so that rectangular or square blocks are formed resulting in <u>all natural faces</u> having the rustic colouring. Most other quarries have to cut blocks to achieve a square end, which results in a different coloured end face (see photographs below).





'Natural quoins' from Yennadon Quarry



'Cut quoins' form other 'rustic stone' supplier (Lantoom Quarry).

2.4 Market

- 2.4.1 The main source of demand for the material comes from the construction industry, for new builds, extensions, boundary walls and building repairs. Slate stone is a predominant building material in the 'moorland fringe' settlements and is very evident in the fabric of buildings, walls and other structures. The market for the stone is principally throughout Devon and Cornwall with just 1% of supply going further afield. It is important to note that current levels of supply from the quarry underpin the viability of the operation.
- 2.4.2 A key role of Yennadon is making suitable stone available for use on Dartmoor and the fringe settlements where it has been used historically and is an integral part of the local scene. Indeed, even the existing (1991) planning conditions (condition b) state that: "A minimum of 75% of the total tonnage of stone leaving the quarry each year shall be building and walling stone to ensure that the output from the quarry contributes to the achievement of conservation objectives in the area".
- 2.4.3 It is clear from DNPA's Policy COR22 that there is no requirement for Yennadon Stone to be used solely within the National Park. This is discussed in the Planning Policy Context (Section 5.0) of the Environment Statement and can be summarised as follows: "Part 2 of Policy COR22 allows for small scale mineral working subject to a reasonable set of environmental, amenity and access considerations. However, while the quarried stone is per se a local material there is no caveat in the policy that this material should be for local needs only."

- 2.4.4 Making stone available for building projects further afield directly affects the viability of the quarry and its ability to make stone available locally, which has historically been the case as well. If the quarry only supplied stone to projects in the National Park then it would be unviable and cease to operate.
- 2.4.5 Local developers and architects often specify "Yennadon Stone" by name in planning applications. As such, the use of Yennadon Stone is often then named within the materials list as part of the planning conditions. Conservation officers request the use of local stone in order to retain the character of an area, both in new builds and in renovation works.
- 2.4.6 Recent planning application examples where Yennadon Stone was specified by a local council include:
 - Construction of a bridge for pedestrians and cyclists at Peak Hill, Dousland (Application No: 0174/14). This development lies within Dartmoor National Park and the Applicant (Devon County Council) specified Yennadon Stone in their Planning Statement.
 - New extended toilet block facilities at Whitestrand, Salcombe (Application No: 41/3057/11/DC). This development lies within an AONB and Conservation Area and the Agent/Applicant (South Hams District Council) specified Yennadon Stone as cladding to match the appearance of the main building at the site.
- 2.4.7 In order to assess Yennadon Stone's market, sales have been evaluated on the basis of (delivery) location, type (building or walling stone) and size of order (see Appendix 04). The latter provides an indication of the size of development; i.e. <10t is likely to be for renovations or small extension; 10t to 100t is likely to be for a small to medium developer; and >100t is likely to be for a moderate to large housing or commercial development. The total sales by area are provided in Table 1 and differentiated sales (building or walling stone) are presented graphically in Figure 02.



| | Cut and selected stone | | | Percentage of |
|----------------------------------|------------------------|------------|------------------|-----------------------|
| Percentage of sales within area | >100t | 100t - 10t | <10 1 | total number of sales |
| Dartmoor National Park + fringes | 0 | 36 | 64 | 8 |
| South Devon | 5 | 40 | 55 | 37 |
| North Devon | 5 | 68 | 27 | 4 |
| East Devon | 11 | 39 | 50 | 4 |
| East Cornwall | 8 | 41 | 52 | 17 |
| Mid Cornwall | 28 | 52 | 20 | 7 |
| West Cornwall | 16 | 67 | 16 | 4 |
| Other | 0 | 36 | 64 | 1 |
| | • | | | 100% |

Table 1: Percentage of Sales within each Area

- 2.4.8 Development within the boundaries of Dartmoor National Park is carefully controlled by the local authority in line with their planning policies. As such, moderate to large developments are very rare. The small number of small to medium-sized developments and renovations permitted within Dartmoor National Park, have to comply with strict development criteria and the use of local stone is encouraged to retain the character of the area. 'Local stone' on Dartmoor comprises both granite and rustic stone. Although granite stonework dominates in much of the National Park, which reflects the underlying geology, there are few population centres within this central area of the National Park, such as Princetown and Moretonhampstead. Most of the larger population centres are located on the western and southern outer edges of the National Park, such as Yelverton, Horrabridge, Ashburton and Buckfastleigh, where rustic stone is the dominant 'local stone'.
- 2.4.9 Considering the relatively low population density on Dartmoor and low level of developments granted within the National Park, Yennadon Stone is considered to be an important source of both building and walling stone for the National Park. The production statistics from Yennadon Quarry reflect the propensity of small to medium developments and renovations within the National Park boundary; i.e. the quarry is fulfilling the condition "to contribute to the achievement of conservation objectives in the area".
- 2.4.10 There are also a number of major communities within the 'fringes' of Dartmoor, such as Tavistock, Ivybridge, Bovey Tracey and Okehampton. The Dartmoor Fringes are also considered to be an important area where 'local' building stone should be used to retain the character of the area as a whole. Yennadon Stone is a principal source of both building and walling stone for developments within the Dartmoor Fringes.





- 2.4.11 Taken together, Yennadon Stone's sales within Dartmoor National Park and the Dartmoor Fringes is the third largest market area after South Devon and East Cornwall (see Table 1). It should be noted that 64% of all sales with Dartmoor National Park and its fringes are to small developers, which demonstrates the high level of demand from local builders for small developments and the re-instatement of existing / older buildings.
- 2.4.12 Yennadon Stone's largest market area is South Devon. The South Hams, which makes up most of this market area primarily comprises an Area of Outstanding Natural Beauty (ANOB). The second largest market area for Yennadon Stone is East Cornwall, which is dominated by sales within the Tamar Valley.
- 2.4.13 It is evident from Table 2 that the majority of Yennadon Stones customers (within each market area) are dominated by small developers and builders. Sales to medium and large developers are often influenced by the lack of production capacity of rustic stone from alternative sources (see Section 3.0); whereas Yennadon Stone Ltd is renowned by developers for their prompt delivery and dependable supply.
- 2.4.14 National and local developers, including Wainhomes, Taylor Wimpey, Persimmon, Barratts, Linden, Cavanna, Bloor and many more currently get the vast majority of their natural building stone from Yennadon Quarry. Commercial developers, such as Dawnus Construction, and social housing contractors, such as 3MS construction, also draw the bulk of their natural stone from Yennadon Quarry, as do various merchants. It should be noted that sales to medium and large developers outside the South Devon, Dartmoor and East Cornwall areas are often influenced by the lack of production capacity of rustic stone from alternative sources.
- 2.4.15 Examples of current and recent residential and commercial developments that have used Yennadon Stone are listed in Table 3, which provides an indication of the larger developments that use Yennadon Stone. Photographic examples of some of these recent developments that use Yennadon Stone is provided in Figure 03.
- 2.4.16 There is also a large demand for Yennadon Stone from builders' merchants. Yennadon Stone are the foremost supplier of Rustic Building Stone to Travis Perkins, Jewsons, Palladium Keyline, Bradfords, RGB, RGC and Interline.



Figure 03: Examples of recent developments using Yennadon Stone



Bottle Park, Lee Mill [Cavanna Homes]



Private residence, East Allington



Cotehele Mill (National Trust), Tamar Valley

Higher Moor, Avonwick [Linden Homes]



Walling and paving, Little Dartmouth

> Tesco Store, Kingsbridge





| Developer | Location | | Product type* |
|-----------------|--------------------|--------------|---------------|
| | St Martins Meadow | Liskeard | 80/20 |
| | Carrolsland | Staddiscombe | Small Walling |
| | Fairfields | Probus | Rustic |
| | Helmers Field | Chillington | Rustic |
| | Penlee/Meadowlands | Plymouth | 25/75 |
| Taylor Wimpey | Tregorrick | St Austell | Small Walling |
| | Barton Brake | Wembury | Rustic |
| | St Aubyn | Mabe | 75/25 |
| | Pen an Dre | Truro | Rustic |
| | Liskey Hill | Perranporth | 75/25 |
| | Kitley | Yealmpton | Rustic |
| | Kensey Parc | Launceston | Rustic |
| | Pochin Meadows | St Austell | Rustic |
| | Foundry Parc | Charlestown | Rustic |
| | Green Lane | Bodmin | Rustic |
| | Oak Meadow | Hatherleigh | Rustic |
| | Carnsmerry | Bugle | Rustic |
| | Inns Park | Camelford | Rustic |
| Wainhomes | Berry Park | Saltash | Rustic |
| | Porth Meadow | Par | Rustic |
| | Batheway Fields | North Tawton | Rustic |
| | Porthpean Road | St, Austell | Rustic |
| | Hill Hay Close | Fowey | Rustic |
| | Menear Road | St Austell | Rustic |
| | Trewollack | Quintrell | Rustic |
| | Burlawn Meadow | St Austell | Rustic |
| | Stourscombe Vale | Launceston | Rustic |
| Redrow Homes | Orleigh Cross | Newton Abbot | 75/25 |
| | Tiddybrook Meadow | Tavistock | Rustic |
| | Canyke Fields | Bodmin | 80/20 |
| | Broome Park | Okehampton | Rustic |
| Parratt Homos | Panorama | Plymouth | 20/80 |
| Ballali Homes | | Bovey Tracey | Rustic |
| | Canes Orchard | Brixton | Rustic |
| | The Spires | Ermington | Rustic |
| | Pilmere | Saltash | 50/50 |
| | Arundel Parc | St Columb | 50/50 |
| | Tregloweth | Truro | 50/50 |
| | Lowen Bre | Truro | 50/50 |
| Persimmon Homes | Dickens Reach | Liskeard | 50/50 |
| | Saltram Gardens | Plymstock | 50/50 |
| | Palmerston Heights | Plymouth | 50/50 |
| | Strawberry Fields | Penryn | 50/50 |
| | Laureate Heights | Sidmouth | 50/50 |
| | Okemont Grove | Okehampton | 50/50 |



| Developer | Location | | Product type* |
|----------------------------------|--------------------------|---------------------|---------------|
| Cavanna Homes | St Annes | Saltash | Rustic |
| | Bottle Park | Lee Mill | Rustic |
| | Bostons Yard | Plymstokc | Rustic |
| | 504K, Airport | Plymouth | 50/50 |
| Bloor Homes | Batson Cross | Salcombe | Rustic |
| | Baltic Quay | Totnes | Rustic |
| | Broadclose Farm | Bude | Small Walling |
| | Liskerret Vale | Liskeard | 80/20 |
| | The Central | Bodmin | Rustic |
| | Tors Farm | Bridestowe | Rustic |
| Lindon Homos | Boscawen Woods | Truro | Rustic |
| Linden nomes | | St Mabyn | Rustic |
| | | St Merryn | 70/30 |
| | Ker Street | Plymouth | 50/50 |
| | Higher Moor | Avonwick | Rustic |
| | | Holbeton | Rustic |
| Small to medium-sized developers | J&M Homes | Yelverton | 85/15 |
| | Bloor Homes | Loddiswell | Rustic |
| | Kingsman Construction | Salcombe | Rustic |
| | Tesco Store | Kingsbridge | Rustic |
| | Lidl Store | Woolwell | 25/75 |
| Commorcial Schomos | Lidl Store | Tavistock | Rustic |
| Commercial Schemes | Cormac/Duchy of Cornwall | Truro | Smalls |
| | Tremough Campus | Falmouth | Rustic |
| | Highway Structures | South West Highways | Small Walling |

*Rustic Building Stone; Small Walling Stone; Combined Rustic/Walling

Table 2. Examples of Recent Developments using Yennadon Stone

- 2.4.17 A potentially increasing market for Yennadon Stone is as a replacement for Hurdwick Stone, which was used extensively in Tavistock (World Heritage site) and the surrounding area. Hurdwick Stone comprises Upper Devonian pillow lavas and schalsteins of igneous origin and was extracted from Hurdwick Quarry until the 1930's and again from 1989 until 2002. It was the main building stone for many of Tavistock's main buildings, including the Bedford Hall, Guildhall, Town Hall and Police Station. Today, there are no quarries within the Tavistock area producing the same type of dimension stone.
- 2.4.18 The cut slate from Yennadon Quarry, when cut square and the faces textured, provides a comparable stone and due to its relatively high strength and durability is now commonly used as a replacement for Hurdwick Stone in extensions, renovations and repairs (see Figure 04).



Figure 04: Hurdwick Stone



Town Hall, Tavistock, built with Hurdwick Stone

Recent extension in Tavistock built with Yennadon Stone as a Hurdwick replacement

3.0 ALTERNATIVES TO YENNADON STONE

3.1 Alternative Local Sources of 'Rustic Stone'

- 3.1.1 There are a variety of different 'slate' stone types that have historically been quarried throughout Devon and Cornwall. The character and appearance of these indigenous stones has played a significant role in contributing to the local distinctiveness of the built environment in different parts of the counties. The term 'slate' for building stone is loosely applied to mudstones and siltstones that have undergone various grades of metamorphism. The nature and appearance of these stones varies greatly. Stones can be weak or strong, durable or non-durable, dark or light grey, have green, to yellow, to red hues, and be characterised by brown iron oxide and/ or quartz veining.
- 3.1.2 Most other existing 'slate' quarries in the region produce a dark grey "Blue" slate (which can be used as both traditional roofing slate and dimension stone, etc.). There are limited other sources of 'Rustic Stone' within the Southwest. Whilst there are slates that share some 'characteristics' with Yennadon Stone, none extract the high quality Hornfelsed Slate produced at Yennadon. As such, there are none that can provide exact and viable alternatives in terms of stone type, quality, colour, strength and durability.

- 3.1.3 There are just two other sources of a similar rustic stone available within a 30 mile radius of Yennadon, namely Mill Hill Quarry and Lantoom Quarry. Neither provide appropriate replacements with regard to stone type, quality, colour, strength and durability.
- 3.1.4 There are other small slate stone quarries in Cornwall, Callywith, Trecarne and Tredinnick that produce a rustic stone. Although, Callywith and Trecarne do produce a cut dimension stone for building / facing, neither are a character replacement for Yennadon Stone. Tredinnick Quarry only produces an unprocessed product suitable for hedging stone.
- 3.1.5 None of the other sources of rustic dimension stone with a similar colour that is typical of West Dartmoor / Devon and East Cornwall extract the Hornfelsed Slate produced at Yennadon or can produce the tonnage currently demanded by the construction market. The Hornfelsed Slate at Yennadon is particularly strong and durable in comparison to the other rustic stone sources outside the metamorphic aureole. Yennadon Quarry's product is also unique in providing commercial quantities of natural quoins.
- 3.1.6 These 'alternative' quarries are discussed further below.

3.2 Mill Hill Quarry

- 3.2.1 Mill Hill Quarry near Tavistock is operated by Mill Hill Quarries Ltd., who also operates the Trevillet Slate Quarry near Tintagel ("blue stone"). The Mill Hill Quarry extracts "Rustic Stone" from the Upper Devonian Tavy Formation (blue/grey in colour with iron stained faces). Although Mill Hill Quarry is regarded as operational, the production of Rustic Stone is sporadic and on a relatively small scale. The quarry is currently close to its operational limit, although it does have permission to extend into adjacent woodland (see extract from Devon County Minerals Local Plan 2004 in Appendix 03), this area is currently not being worked due to significant archaeological features being present.
- 3.2.2 Their Trevillet Quarry (Tintagel) predominantly produces a 'blue slate' that is used for building stone, roofing, walling and paving. The Trevillet site can also produce very limited amounts of 'rustic' building/walling stone, which is imported into the Mill Hill site for processing.

- 3.2.3 Mill Hill also operated Longford Quarry within Dartmoor National Park until operations ceased several years ago. Longford produced a rustic stone similar to Yennadon Stone.
- 3.2.4 Should Yennadon Quarry reduce production output, Mill Hill Quarries could not currently achieve the production capacity required by developers. Even if the Mill Hill Quarry site were to start extracting stone from the adjacent woodland, it is noted that the local road network is inadequate to support additional quarry traffic, and therefore could not increase production rates to satisfy the demand.

3.3 Lantoom Quarry

- 3.3.1 Lantoom Quarry is situated near Liskeard. Lantoom as a company operates four other quarries; however it is only the Lantoom Quarry site that produces a 'Rustic Slate' dimension stone. It should be noted that Lantoom Quarry also produces various other 'slate' stone and hardcore/aggregate products, not just dimension stone. Lantoom Quarry has planning permission until 2042.
- 3.3.2 Lantoom Quarry is located within the **Saltash Formation** of Emsian to Tournasian Age. This formation comprises a dark grey silty Mudstone with variable but very subordinate amounts of laminae and thin beds of siltstone and sandstone. Due to its age and regional metamorphism this meta-mudstone can have the appearance and characteristics of a slate and quarries within such deposits are often termed as Slate Quarries. The bedding width is typically 100mm to 200mm thick, which controls the final block size. The maximum block size produced at Lantoom Quarry is 300mm.
- 3.3.3 The 'slate' at Lantoom Quarry is blue-grey in colour. The natural weathering of joints within the bedrock also results in the 'faces' of the extracted blocks having the orangebrown colour associated with 'Rustic Stone'. The original grey colour is revealed on sawn faces.
- 3.3.4 The 'rustic stone' produced at Lantoom Quarry has some similarities in appearance but many differences in terms of strength and durability. Laboratory testing was carried out in order to provide an indication of the difference in the performance of Yennadon Stone with that of Lantoom Stone (as a possible alternative source), a number of samples from both quarries were sent to an independent UKAS accredited laboratory for the following comparative tests:
 - Compressive Strength;

- Water Absorption; and
- Resistance to Salt Crysatllisation
- 3.3.5 The results are provided in Appendix 06 and discussed in Section 3.5 below.
- 3.3.6 During 2013 Lantoom Quarry stated on their website that 'Rustic Stone' is their most popular building stone material and that as it is often in high demand "delivery can be subject to long lead times". This indicated that Lantoom Quarry would be unable to cope with increased demand. It should be noted that their website was refurbished following submission of the original planning permission and this statement is no longer present.
- 3.3.7 It is understood that Lantoom Quarry have experienced supply difficulties in recent years. In 2011Yennadon Stone hired a mobile saw and labour to Lantoom Quarry for six weeks to cut 150 tonnes of stone as Lantoom were unable to meet an order. In addition in the same year, Yennadon Stone supplied a site in Cornwall with stone from Yennadon Quarry at the request of the developer as Lantoom were unable to meet an urgent order.
- 3.3.8 In their objection to the original planning application, Stephens Scown Solicitors, who were acting on behalf of Lantoom Quarry, indicated that should Yennadon Quarry cease production, Lantoom Quarry would be able to accommodate any increase in demand / sales and would also be able to employ any Yennadon Quarry staff made redundant.
- 3.3.9 Yennadon Quarry commissioned an independent review of the financial performance of Lantoom Ltd. and their ability to absorb Yennadon Quarry's business demand from Wills Accountants. Their report is provided in Appendix 05. Wills Accountants indicated that based on publically available data held at Companies House, Lantoom Ltd has been cash flow insolvent for the financial years seen and have reported losses in two of the last five years recorded. Wills Accountants have concluded that they are of the opinion that Lantoom Ltd would struggle to have the financial stability in its present form to replicate the business of Yennadon.
- 3.3.10 With regard to Stephens Scown Solicitors' latter assertion regarding Yennadon Quarry's employees relocating to Lantoom Quarry, this would be an unrealistic round trip of 56



miles and a 1.5 hour commute. Considering the typical wage of quarry workers, this commute would be financially impractical.

3.4 Other Sources

3.4.1 There are three other small slate stone quarries in Cornwall, Callywith, Trecarne and Tredinnick. None of which supply a building stone considered to be a character replacement for Yennadon Stone. Callywith and Trecarne do produce a cut dimension for building / facing stone, however, Tredinnick Quarry only produces an unprocessed product suitable for hedging stone. A summary of these three quarries are provided below.

Callywith Quarry, located near Bodmin, Cornwall, predominantly supplies hedging stone and stone for pathways, driveways and rockeries. It can produce a masonry stone, with cut (grey) quoins. The natural joint faces are a more brownish grey in colour, which is characteristic of building stone in mid to west Cornwall.

Trecarne Quarry, located near Delabole, North Cornwall produces a range of slate products including hedging, paving and hardcore. The slate is highly cleaved, with irregular jointing. Building stone suitable for housing predominantly comprises cut faces, which are grey in colour.

Tredinnick Quarry is located near St Issey, Wadebridge. It is a small operation that produces a grey shale (low-grade metamorphic slate) used as a hedging stone. It forms an irregular stone with reddish joint faces. It does not produce a building dimension stone. (There is a second Tredinnick Quarry near Grampound, which produced a gritstone (granular in appearance). It has been nonoperational for approximately 10 years).



3.4.2 None of these three quarries are considered to be a viable production alternative source as their 'rustic' stone does not have a similar colouring to Yennadon, Mill Hill or Lantoom; and could not provide the required production capacity should Yennadon cease operation.

- 3.4.3 Based on the fact that Mill Hill Quarry could not viably increase production to supply demand; and that the other three quarries mentioned above are not considered suitable alternatives (due to differences in colour, shape, quality and product type), Lantoom Quarry would be the main beneficiary should Yennadon Quarry reduce output. Given that Lantoom Quarry has experienced delivery problems in the past and is considered unlikely to meet future demand in its present financial form, it is considered that sustainable alternative sources of rustic stone are scarce.
- 3.4.4 The net effect is that if Yennadon Quarry reduces capacity, then apart from the alternative stone at these two small-scale quarries, the only other sources of the same type of stone are to be found in North Wales and China, which would have a significant transport and carbon footprint cost. Delivery times for developers will also significantly increase, and could potentially cause significant delays in construction. As a result either costs of construction will increase or customers will seek alternative building styles, such as render or brick, adversely impacting on the policies for preserving local character in new design.

3.5 Comparison of Rustic Stone from Lantoom Quarry and Yennadon Quarry

- 3.5.1 In order to provide an indication of the difference in the performance of Yennadon Stone with that of Lantoom Stone (as a possible alternative source), a number of samples from both quarries were sent to an independent UKAS accredited laboratory for the following comparative tests:
 - Compressive Strength;
 - Water Absorption; and
 - Resistance to Salt Crysatllisation
- 3.5.2 The Compressive Strength of a rock is the loading required to cause failure and is used as a measure of design strength. The table below provides the range of compressive strengths to which descriptive terms can be assigned to the building stone.

| Descriptive Term | Compressive Strength (MPa) |
|------------------------|----------------------------|
| Extremely strong rock | >200 |
| Very strong rock | 100-200 |
| Strong rock | 50-100 |
| Moderately strong rock | 12.5-50 |
| Moderately weak rock | 5.0-12.5 |
| Weak rock | 1.25-5.0 |
| Very weak rock | 0.60-1.25 |

Table 3: Descriptive Terms Based on Compressive Strength

- 3.5.3 Water Absorption is the mass of water required to saturate the stone, expressed as a percentage of the solid mass of the stone. The test is an indicator of weathering resistance (i.e. susceptibility to freeze-thaw action and salt crystallisation). In general, the lower the percentage the better, with an absorption of less than 5% being preferable.
- 3.5.4 Resistance to Salt Crystallisation provides a measure of durability and behaviour of the stone in the environment (i.e. weathering characteristics). The test involves 15 cycles of wetting (in a salt solution) and drying (where the salts crystallise out). Fine pores cannot accommodate the increasing accumulations of salts and are eventually broken apart by the expansive forces of the crystal growth, causing the stone to physically decay. The susceptibility of dimension stone to salt crystallisation damage varies depending to a considerable extent on the size and distribution of pores. In the natural environment, soluble salts can include sea salt, road salt, acid gases, etc. The durability of the stone is assessed by the magnitude of its weight loss.
- 3.5.5 The test results from Yennadon Stone and Lantoom Stone are summarised in the table below.

| | Yennadon Stone | Lantoom Stone | | |
|--------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|--|--|
| Compressive Strength (MPa) BS EN 1926:2006 | 80 | 22 | | |
| Descriptive Term | Strong rock | Moderately strong rock | | |
| Water Absorption (%) BS EN 13755:2008 | 3.2 | 6.7 | | |
| Resistance to Salt Crystallisation: Mass Change after 15 cycles (%) BS EN 12370:1999 | -8.8 (full 15 cycles completed) | -44.2 (stopped after 12 cycles due to disintegration) | | |
| Table 4: Summary of Laboratory Testing | | | | |

3.5.6 The laboratory analysis demonstrates Yennadon Stone's high strength and durability and low weathering potential. With regard to strength, Yennadon Stone lies within the <u>upper range of 'Strong Rock'</u>. These laboratory results clearly reflect the contact metamorphic processes that Yennadon Stone have been subject to, which result in the contact metamorphosed hornfels being of higher strength than meta-mudstones and slates located outside the metamorphic aureole. The high durability and low weathering potential would result in Yennadon Stone being less likely to flake and delaminate on weathering than meta-mudstones / slates located outside the metamorphic aureole. 3.5.7 With regard to comparing the aesthetic appearance of the Yennadon Stone and Lantoom Stone, the photographs below were provided by Stephens Scown on behalf of Lantoom Ltd as part of their objection to the previous planning submission. The upper photographs illustrates the 'selected walling' stone, which is an unprocessed product; and the lower photographs illustrate the 'cut building' stone which has been cut (processed) to achieve stone suitable for building.



'Selected walling' stone – Lantoom Stone Red lines highlight some of the irregular block shapes.



Lantoom's mixed rustic/cut stone



JOHN GRIMES

'Selected walling' stone – Yennadon Stone Note: parallel edges.



Yennadon's 50/50 rustic/cut stone

3.5.8 The photographs were submitted by Stephens Scown with the aim of showing the similarity between Lantoom Stone and Yennadon Stone; i.e. both show a brown 'rustic stone'. However, it is considered that these photographs also demonstrate marked differences between the two products:

- Yennadon Quarry produces naturally rectangular stone with parallel faces with near right-angled corners, which result in regular parallel mortar bedding joints; whereas Lantoom Quarry produces a combination of angled and flat stone, which results irregular and undulating mortar bedding joints.
- 2. Yennadon Stone is a 'mellow' yellowish brown product; whereas Lantoom Stone is darker and more orange brown in colouration.
- 3.5.9 The laboratory results demonstrate that Yennadon Stone is stronger, more durable and less prone to damage (flaking and delamination) due to weathering than stone quarried from Lantoom. There are also key differences in colour and tone. Whilst natural faces from Yennadon predominantly ranges from mellow yellow to brown hues with some hints of bluish grey; natural facing from Lantoom tends to have more dark yellow to orange brown hues. It is also quite different as a cornering material, Lantoom Stone generally needs to be cut to work at right angles to produce a quoin. Unlike Yennadon Stone which produces natural quoins.
- 3.5.10 Although Lantoom Quarry produces a rustic stone, it does <u>not</u> have the same colour, shape, quality and strength and cannot be compared as like for like.
- 3.5.11 The main reason for these differences is that the two quarries fall within different underlying geological areas; Yennadon in the Tavy Formation and Lantoom in the Saltash Formation.
- 3.5.12 In addition to the differences identified, Lantoom Quarry also does not have the production capacity that Yennadon has (as indicated by Wills Accountants report). It is considered likely that Lantoom Quarry would be the main alternative source should Yennadon Quarry reduce capacity. Given that Lantoom Quarry has experienced delivery problems in the past and is considered unlikely to meet future demand in its present financial form, it is considered that sustainable alternative sources of rustic stone are scarce.

3.6 Opening a New Quarry

- 3.6.1 The Hornfelsed Slate deposit that Yennadon Stone quarries lies predominantly within the boundary of Dartmoor National Park, as shown in Appendix 02.
- 3.6.2 Much of the 'contact metamorphosed' Tavy Formation that lies to the south of the Dartmoor Granite outside the National Park comprise inter-bedded metamorphosed

slates, meta-basic rocks/volcanic tuff, and metamorphosed limestone/calcareous rocks (calc-flinta). In addition, the granite intrusions in this area have also undergone chemical alteration known as kaolinisation, which also chemically altered the surrounding meta-sedimentary rocks, resulting in them being more clayey /softer. As such, is considered unlikely that a viable alternate source would be present in this area.

- 3.6.3 To the east of the Dartmoor Granite, there is an area of a slates within the metamorphic aureole, however these are recorded as being dark grey in colour and also lie within the National Park boundary.
- 3.6.4 Therefore, alternative sources of Rustic Stone from high grade Hornfelsed Slate are limited outside the National Park.

4.0 CONCLUSIONS

- 4.1 The stone produced from Yennadon Quarry is a Dartmoor Rustic Stone (known widely as Yennadon Stone). It is a metamorphosed sedimentary rock that is well suited to, and favoured as, a building stone due to its indigenous appearance (colour), high strength, square jointing (including natural quoins) and resistance to both frost and weathering. As such, it has an established reputation in the market place as a good, flexible, high quality building product.
- 4.2 The market for Yennadon Stone comes from the construction and building industry, from which the main demand is for facing stone to new buildings and extensions, and for walling. Yennadon Quarry also supplies a high percentage of local builders for small developments and the re-instatement of existing / older buildings. Planning policies continue to encourage the use of local materials through the requirement for developments to incorporate local features and/or be in-keeping with the surrounding built environment.
- 4.3 Yennadon Stone's production statics for sales within Dartmoor National Park reflect the sizeable amount of small to medium developments and renovations within the area and lack of larger developments. Yennadon Stone is considered to be an important source of both building and walling stone for the National Park (in areas where granite is not the dominant 'local' stone in the surrounding built environment).

- 4.4 A key role of Yennadon is making suitable stone available for use on Dartmoor and the fringe settlements where it has been used historically and is an integral part of the local scene. Indeed, even the existing (1991) planning conditions (condition b) state that: "A minimum of 75% of the total tonnage of stone leaving the quarry each year shall be building and walling stone to ensure that the output from the quarry contributes to the achievement of conservation objectives in the area".
- 4.5 In addition, DNPA's planning policy COR22 states that there is no requirement for stone from quarries within the National Park to be used solely within the National Park. There are also a number of communities within the 'fringes' of Dartmoor, where 'local' building stone is considered essential to retain the character of the Dartmoor area as a whole. Yennadon Stone is a principal source of both building and walling stone for developments within the Dartmoor Fringes.
- 4.5 Taken together, Yennadon Stone's sales within Dartmoor National Park and the Dartmoor Fringes is the third largest market area after South Devon and East Cornwall,. It should be noted that 64% of all sales with Dartmoor National Park and its fringes are to small developers, which demonstrates the high level of demand from local builders for small developments and the re-instatement of existing / older buildings.
- 4.6 Yennadon Stone's largest market area is South Devon (South Hams) and the second largest is East Cornwall (which is dominated by sales within the Tamar Valley). The majority of Yennadon Stones customers are small to medium developers, builders and builders merchants. Sales to medium and large developers outside the South Devon, Dartmoor and East Cornwall area are often influenced by the lack of production capacity of rustic stone from alternative sources. Yennadon Stone Ltd is renowned by developers for their prompt delivery and dependable supply.
- 4.7 Alternative sources of this product are scarce, with only two quarries within a 30 miles radius able to provide a similar type of stone; both of these quarries suffer from a lack of production capacity; a situation which will exacerbate should Yennadon Quarry reduce production. The net effect is that if Yennadon Quarry reduces output prematurely, then apart from the alternative stone at these two quarries, the only other sources of the same type of stone are to be found in North Wales and China, which would have a significant transport and carbon footprint cost. As a result either costs of construction will increase or customers will seek alternative building styles, such as

render or brick, adversely impacting on the policies for preserving local character in new design.

4.8 Yennadon Stone is considered to be an important source of building and walling stone both in the Dartmoor area and region as a whole. The reduction of output from Yennadon Quarry would have a significant effect on the supply and demand for 'local' rustic stone within the region and will have a detrimental effect on future developments and renovations within Dartmoor National Park and surrounding areas.



APPENDICES



APPENDIX 01

Geological Map of Southwest England







Superficial deposits

- ALLUVIUM CLAY, SILT AND SAND
- BLOWN SAND SAND AND GRAVEL
- PEAT PEAT
- RAISED MARINE DEPOSITS SAND AND GRAVEL
- RIVER TERRACE DEPOSITS (UNDIFFERENTIATED) SAND AND GRAVEL

Bedrock geology

- BRACKLESHAM GROUP AND BARTON GROUP (UNDIFFERENTIATED) SAND, SILT AND CLAY EOCENE TO MIOCENE ROCKS
- (UNDIFFERENTIATED) CLAY, SILT, SAND AND GRAVEL
- GAULT FORMATION AND UPPER GREENSAND FORMATION (UNDIFFERENTIATED) -
- MUDSTONE, SANDSTONE AND LIMESTONE PERMIAN ROCKS (UNDIFFERENTIATED) -SANDSTONE AND CONGLOMERATE.
- INTERBEDDED UNNAMED EXTRUSIVE ROCKS, PERMIAN -
- LAVA, FELSIC
- UNNAMED EXTRUSIVE ROCKS, PERMIAN -
- IOLSWORTHY GROUP MUDSTONE, SILTSTONE AND SANDSTONE
- DINANTIAN ROCKS (UNDIFFERENTIATED) -IMESTONE WITH SUBORDINATE SANDSTONE AND ARGILLACEOUS ROCKS
- UNNAMED EXTRUSIVE ROCKS, CARBONIFEROUS MAFIC LAVA AND MAFIC TUFF
- UNNAMED EXTRUSIVE ROCKS, CARBONIFEROUS LAVA, MAFIC

- LOWER DEVONIAN ROCKS
- (UNDIFFERENTIATED) SANDSTONE AND CONGLOMERATE, INTERBEDDED
- DEVONIAN ROCKS (UNDIFFERENTIATED) -LIMESTONE, MUDSTONE AND CALCAREOUS MUDSTONE
- UNNAMED EXTRUSIVE ROCKS, DEVONIAN -MAFIC LAVA AND MAFIC TUFF
- UNNAMED EXTRUSIVE ROCKS, DEVONIAN -LAVA, MAFIC
- UNNAMED EXTRUSIVE ROCKS, DEVONIAN -TUFF, MAFIC
- UNNAMED IGNEOUS INTRUSION, DEVONIAN -FELSIC-ROCK
- UNNAMED IGNEOUS INTRUSION, DEVONIAN -IGNEOUS-ROCK, MAFIC
- INNAMED IGNEOUS INTRUSION, DEVONIAN -ULTRAMAFITITE
- UNNAMED EXTRUSIVE ROCKS CARBONIFEROUS - TUFF, MAFIC UNNAMED IGNEOUS INTRUSION.
- CARBONIFEROUS TO PERMIAN FELSIC-ROCK
- UNNAMED IGNEOUS INTRUSION, CARBONIFEROUS TO PERMIAN IGNEOUS-ROCK, MAFIC
- TEIGN VALLEY GROUP MUDSTONE, SILTSTONE AND SANDSTONE
- UPPER DEVONIAN ROCKS (UNDIFFERENTIATED) MUDSTONE, SILTSTONE AND SANDSTONE
- UPPER DEVONIAN ROCKS (UNDIFFERENTIATED) SANDSTONE AND CONGLOMERATE, INTERBEDDED
- MIDDLE DEVONIAN (UNDIFFERENTIATED) -
- MUDSTONE, SILTSTONE AND SANDSTONE
- LOWER DEVONIAN ROCKS (UNDIFFERENTIATED) MUDSTONE, SILTSTONE AND SANDSTONE



APPENDIX 02

Tavy Formation Hornfelsed Slate Deposits



FILENAME: P:\7000-7999\7397 Yennadon Quarry\Drawings\Drawings\JGP\Drawings\Current\Extensions\geology, PLOTTED BY: Tom Spiller, DATE: 07 November 2013 12:05:53



APPENDIX 03

Extract from Devon County Minerals Plan 2004 regarding Mill Hill Quarry

MILL HILL

LOCATION

(NGR SX 452748)

The Consultation Area lies two kilometres west of Tavistock.

GEOLOGY

The quarry works Upper Devonian slates that are bluegrey in colour with many of the bedding planes being heavily stained with iron oxides.

PLANNING HISTORY

Quarrying operations have taken place at Mill Hill for over 400 years and the decorative slate and building stone produced here is in demand both locally and outside the County. Quarrying operations are controlled by a number of planning permissions granted between 1950 and 1968, and another granted in 1986 that included a voluntary agreement to discontinue working on parts of the earlier permission areas.

Although not currently worked, the planning permission to extract stone from Ogbeare Woods has been implemented and will feature in the continued development of the site. An application in 1974 to extract slate from the spoil area south of Higher Lumburn Bridge was refused because of the proximity of residential properties on the opposite side of the valley.

ROMP STATUS

Mill Hill Quarry is an Active Phase I site which was determined on 24 November 1999. The Approved Scheme includes conditions controlling the working scheme, access, traffic and protection of the public highway as well as environmental protection measures, restriction on the hours of working and requirements for landscaping, restoration and aftercare of the mineral site.

DESCRIPTION OF OPERATIONS

Mill Hill Quarry specialises in high quality, high value stone production for specialist building purposes. These include cut and natural building stone, flooring material, rockery stone, and garden walling and decorative stonework. Rock is loosened from the quarry face by controlled blasting, and fallen stone is selected by hand for various uses. There is a high proportion of waste for which there are currently limited markets. Stone is also imported from two other quarries in the same ownership for dressing and resale.



Mill Hill Quarry.

COMMENT

- The Mineral Consultation Area lies in an area classified by the Environment Agency as a minor aquifer.
- The local road network is inadequate for additional quarry traffic.
- Ogbeare Woods contain the remains of a 15th century leat that is of significant archaeological interest.



Pallets of cut stone wrapped ready for transport.

PROPOSALS

PROPOSAL: INSET 43.1

The MPA will ensure that the features of the 15th century leat are recorded before it is affected by mineral working.

INSET PLAN 43



DEVON COUNTY MINERALS LOCAL PLAN




APPENDIX 04

Summary of Sales by Area (2005 - Nov 2013)



Deliveries to Customers Within Dartmoor National Park (2005 - Nov13)

| Location | Cu | t (Building) St | one | Selected (Walling) Stone | | |
|------------------------|-------|-----------------|--------|--------------------------|------------|--------|
| | 100t+ | 100t - 10t | n/e10t | 100t+ | 100t - 10t | n/e10t |
| Ashburton | | | х | | | |
| Ashburton | | | | | х | |
| Ashburton | | | х | | | |
| Belstone | | | | | х | |
| Bittaford | | | х | | | |
| Bittaford | | | х | | | |
| Havtor | | | | | х | |
| Havtor | | | | | | х |
| Horndon | | | | | х | |
| Horrabridae | | | x | | | |
| Horrabridge | | | | | х | |
| Horrabridae | | | х | | | |
| Horrabridae | | | | | | х |
| Horrabridae | | | x | | | |
| Horrabridae | | | | | x | |
| Horrabridae | | | | | | x |
| Horrabridae | | x | | | | |
| Horrabridae | | ~ | x | | | |
| Horrabridae | | | | | x | |
| Lee Moor | | | x | | ~ | |
| Lydford | | x | ~ | | | |
| Lydford | | ^ | | | | x |
| Mary Tavy | | x | | | | ~ |
| Mary Tavy Mary Tavy | | ~ | | | | x |
| Mary Tavy Mary Tavy | | | | | | × |
| Mary Tavy Mary Tavy | | | | | × | ~ |
| Mary Tavy Mary Tavy | | | | | ~ | x |
| Mary ravy | | | | | x | ~ |
| Peter Tavy | | | x | | ~ | |
| Peter Tavy | | x | ~ | | | |
| Shauah Prior | | ~ | | | × | |
| Shaugh Prior | | | | | x | |
| Shaugh Prior | | | | | ~ | x |
| Shaugh Prior | | | | | x | ~ |
| Shaugh Prior | | | | | ~ | x |
| Sheepstor | | | | | x | ~ |
| Sticklepath | | | x | | ~ | |
| Walkhampton | | | x | | | |
| Walkhampton | | | | | | x |
| Walkhampton | | | | | | x |
| Walkhampton | | | | | | x |
| Walkhampton | | | Y | | | ~ |
| Walkhampton | | | ^ | | | Y |
| Walkhampton | | v | | | | ~ |
| Walkhampton | | ^ | | | ~ | |
| | | | | | X | |
| Widecombo | | | | | | X |
| Volverton | | | | | X | |
| Volverton | | | X | | | |
| Velverten | | | | | X | |
| | | | X | | | |
| Velverton | | | X | | | |
| Velverton | | | | | | X |
| | | | | | | X |
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| reiverton | 1 | | | 1 | 1 | Х |



| Yelverton | | | х | |
|-----------|---|---|---|---|
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| Yelverton | | | | х |
| Yelverton | | | | х |
| Yelverton | | х | | |
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| Yelverton | х | | | |
| Yelverton | | | х | |
| Yelverton | | х | | |
| Yelverton | | х | | |



Deliveries to Customers Within Dartmoor Fringes (2005 - Nov13)

| | Cu | t (Building) Sto | one | Selected (Walling) Stone | | |
|-----------------|-------|------------------|--------|--------------------------|------------|--------|
| Location | 100t+ | 100t - 10t | n/e10t | 100t+ | 100t - 10t | n/e10t |
| Ashbury | | | х | | | |
| Avonwick | | х | | | | |
| Beaworthy | | | х | | | |
| Beaworthy | | | x | | | |
| Beaworthy | | | | | x | |
| Bere Alston | | | | | x | |
| Bere Alston | | | | | x | |
| Bere Alston | | | | | x | |
| Bere Alston | | | × | | ~ | |
| Bere Alston | | | × | | | |
| Bere Alston | | | × | | | |
| Bere Alston | | | ~ | | | × |
| Bere Alston | | | | | | × |
| Boro Forrors | | | | | | ~ |
| Bevey Tracey | | | | | | X |
| | | ~ | | | | × |
| | | X | | | | |
| Bovey Iracey | | | | | | X |
| Bovey Iracey | | | | | X | |
| Bovey Iracey | | | | | | X |
| Bovey Iracey | | X | | | | |
| Bovey Tracey | | | | | | X |
| Brentor | | X | | | | |
| Brentor | | | | | X | |
| Brentor | | | | | | x |
| Brentor | | | | | x | |
| Brentor | | | х | | | |
| Brentor | | | х | | | |
| Bridestowe | | x | | | | |
| Bridestowe | | x | | | | |
| Bridestowe | | | | | | x |
| Broadwoodwidger | | | х | | | |
| Chillaton | | | х | | | |
| Chillaton | | | | | x | |
| Chillaton | | | | | | х |
| Clearbrook | | | x | | | |
| Cornwood | | | | | | х |
| Cornwood | | | | | | х |
| Cornwood | | | | | | х |
| Crapstone | | | х | | | |
| Crapstone | | | х | | | |
| Crapstone | | | | | х | |
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| Crapstone | | | | | X | |
| Crapsione | | | X | | | |
| Crapsione | | | | | | X |
| Crapstone | | | | | | X |
| Crapstone | | | Х | | | |
| Dinnaton | | | | | Х | |
| Dinnaton | 1 | | | 1 | | Х |



| Dinnaton | | | | | | х |
|---------------|---|---|---|---|---|---|
| Diptford | | | | | х | |
| Diptford | | х | | | | |
| Diptford | | | | | х | |
| Dousland | | | | | | х |
| Dousland | | | х | | | |
| Dousland | | | x | | | |
| Dousland | | | | | | x |
| Dousland | | | Y | | | ~ |
| Dousland | | | ~ | | x | |
| Dousland | | | | | ^ | x |
| Dousland | | | | | | x |
| Dousland | | | × | | | ~ |
| Dousland | | | X | | | × |
| Drowstoignton | | | | | v | ~ |
| Cranafan | | × | | | X | |
| Grenolen | | X | | | | |
| Grenofen | | | | | X | |
| Grenoren | | | X | | | |
| Gulworthy | | Х | | | | |
| Gulworthy | | | | | Х | |
| Hemerdon | | | | | | Х |
| lvybridge | | | | | | Х |
| lvybridge | | | | | | х |
| lvybridge | | | х | | | |
| lvybridge | | | | | x | |
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| lvybridge | | | | | | х |
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| lvybridge | | х | | | | |
| lvybridge | | | | | | х |
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| lvybridae | | | × | | | |
| lvybridae | | | х | | | |
| lyybridge | | | | | | х |
| lvybridge | | | | | x | |
| lvybridge | | | | | | x |
| Lamerton | | x | | | | ~ |
| Lee Mill | | x | | | | |
| Lee Mill | | | × | | | |
| | | | ^ | | | Y |
| Maristow | | | | ~ | | ^ |
| Milton Coombe | | | | ^ | | ~ |
| Milton Coombo | | | | | | ~ |
| | | | | | | X |
| | | | | | X | |
| | | | | | X | |
| Okenampton | | X | | | | |
| Okenampton | X | | | | | |
| Okehampton | X | | | | | |
| Okehampton | | Х | | | | |
| Okehampton | | | | | Х | |
| Okehampton | | | | | Х | |
| Okehampton | | | Х | | | |
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| Okehampton | | | x | | |
|----------------|---|---|-----------------------------------------|---|---|
| Okehampton | x | | | | |
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| Okehampton | | | | | Х |
| Roborough | | | | | Х |
| Sparkwell | | | | х | |
| Sparkwell | | | | | х |
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| Sparkwell | | | х | | |
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| Tavistock | | | | х | |
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Deliveries to Customers to East/North Cornwall (2005 - Nov13)

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Deliveries to Customers in East Devon (2005 - Nov13)

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| Woodbury | | | | х | | |
| Woodbury | | | Х | | | |



Deliveries to Customers in North Devon (2005 - Nov13)

| | Cut (Building) Stone | | | Selected (Walling) Stone | | |
|-------------------|----------------------|------------|--------|--------------------------|------------|--------|
| Location | 100t+ | 100t - 10t | n/e10t | 100t+ | 100t - 10t | n/e10t |
| Barnstaple | | Х | | | | |
| Barnstaple | | | | | | Х |
| Barnstaple | | Х | | | | |
| Barnstaple | | Х | | | | |
| Bideford | | х | | | | |
| Bideford | | х | | | | |
| Croyde | | | | | х | |
| Croyde | | | Х | | | |
| Dulverton | | | Х | | | |
| Fremington | | | х | | | |
| Hatherleigh | | х | | | | |
| Hatherleigh | | х | | | | |
| Hatherleigh | х | | | | | |
| Huntsham | | | | | x | |
| llfracombe | | х | | | | |
| llfracombe | | | | | Х | |
| llfracombe | | | х | | | |
| llfracombe | | Х | | | | |
| llfracombe | | | х | | | |
| Muddiford | | х | | | | |
| Newton St Petrock | | | | | х | |
| North Tawton | | | х | | | |
| North Tawton | | | х | | | |
| Northlew | | | | | х | |
| Pancrasweek | | | | | х | |
| Saunton | | | Х | | | |
| Saunton Sands | Х | | | | | |
| South Molton | | | | | х | |
| Spreyton | | х | | | | |
| Taunton | | Х | | | | |
| Taunton | | | | | | х |
| Tedburn St Mary | | | | | х | |
| Tiverton | | | х | | | |
| Tiverton | | | | | х | |
| Tiverton | | | х | | | |
| Tiverton | | х | | | | |
| Virginstowe | | | | | х | |
| Waddeton | | | | | х | |
| Willand | | | | | х | |
| Woolacombe | | Х | | | | |
| Woolacombe | | Х | | | | |
| Yeoford | | х | | | | |
| Yeoford | | | | | х | |
| Yeoford | | | | | х | |



Deliveries to Customers in Mid Cornwall (2005 - Nov13)

| | Cu | t (Building) Ste | one | Selected (Walling) Stone | | |
|------------------|--------------------|------------------|--------|--------------------------|------------|--------|
| Location | 100 1 + | 100t - 10t | n/e10t | 100t+ | 100t - 10t | n/e10t |
| Bodmin | | | | | x | |
| Bodmin | | х | | | | |
| Bodmin | | | х | | | |
| Bodmin | | х | | | | |
| Bodmin | | x | | | | |
| Bodmin | x | | | | | |
| Bodmin | | х | | | | |
| Bodmin | | x | | | | |
| Bodmin | x | | | | | |
| Bugle | x | | | | | |
| Caralaze | x | | | | | |
| Charlestown | x | | | | | |
| Crantock | | x | | | | |
| Crantock | | × | | | | |
| Cubert | | x | | | | |
| Duporth | | x | | | | |
| Ladock | | x | | | | |
| Lerryn | | | | | | x |
| Lerryn | | × | | | | ~ |
| Lostwithiel | | | | | x | |
| Lostwithiel | | | × | | ~ | |
| Lostwithiel | × | | ~ | | | |
| Lostwithiel | ^ | × | | | | |
| Mawaan Porth | | ^ | | | | v |
| Mawgarrionn | | | | | × | ^ |
| Mevagissey | | ~ | | | ^ | |
| Mitchell | | × | | | | |
| Mitchell | × | ^ | | | | |
| Mitchell | ^ | v | | | | |
| Mitchell | | ~ ~ | | | | |
| Mitchell | | X | | | | |
| Mitchell | | × | Y | | | |
| | | | X | | | |
| | | | × | | X | |
| Navguev | | | X | | | |
| Newqudy | | ~ | X | | | |
| Newqudy | | X | | | | |
| Newquay | | X | | | | |
| Padstow | | | | X | | |
| Par | | | | | X | |
| rui Dar | X | | | | | |
| rui Delleenie | | | X | | | |
| | | X | | | | |
| roizeath | | | Х | | | |
| Port Isaac | | Х | | | | |
| Porth | | X | | | | |
| Portloe | | | | | Х | |
| Probus | х | | | | | |
| Rock | | х | | | | |
| Rock | | | х | | | |
| Rock | | | х | | | |
| St Agnes | X | | | | | |
| St Austell | X | | | | | |
| St Austell | | | х | | | |
| St Austell | | х | | | | |
| St Austell | | | | | x | |



| St Austell | X | | | | |
|-----------------|---|---|---|------|---|
| St Austell | | | | Х | |
| St Austell | | | | Х | |
| St Austell | | | | Х | |
| St Austell | | | | | х |
| St Columb Major | × | | T | | |
| St Columb Major | | х | | | |
| St Columb Major | | x | | | |
| St Columb Major | | x | | | |
| St Columb Major | × | | | | |
| St Columb Major | | | х | | |
| St Mabyn | x | | | | |
| St Mabyn | | х | | | |
| St Merryn | × | | | | |
| St Newlyn East | | х | | | |
| St Newlyn East | | | х | | |
| St Wenn | | х | | | |
| Trelights | | х | | | |
| Tremough Campus | × | | | | |
| Tremough Campus | | х | | | |
| Tresillian | | | х | | |
| Trevose | x | | | | |
| Trispen | × | | | | |
| Truro | × | | | | |
| Truro | | | | Х | |
| Truro | | х | | | |
| Truro | x | | | | |
| Truro | | х | | | |
| Truro | x | | | | |
| Truro | x | | | | |
| Truro | x | | | | |
| Truro | | x | | | |
| Truro | × | | | | |
| Wadebridge | | x | | | |



Deliveries to Customers in West Cornwall (2005 - Nov13)

| Location | Cut (Building) Stone | | | Selected (Walling) Stone | | |
|--------------------|----------------------|------------|--------|--------------------------|------------|--------|
| | 100t+ | 100t - 10t | n/e10t | 100t+ | 100t - 10t | n/e10t |
| Breage | | х | | | | |
| Carharrack | | х | | | | |
| Carnon Downs | | | | | х | |
| Carnon Downs | | | х | | | |
| Falmouth | | | | | | х |
| Falmouth | | х | | | | |
| Feock | | х | | | | |
| Flushing | | | х | | | |
| Fowey | | х | | | | |
| Fowey | | | | | х | |
| Fowey | | х | | | | |
| Gorran Haven | | х | | | | |
| Grampound | | х | | | | |
| Grampound | | х | | | | |
| Hayle | | х | | | | |
| Hayle | | х | | | | |
| Helford | | х | | | | |
| Helston | | х | | | | |
| Helston | | | | | х | |
| Helston | | х | | | | |
| Helston | | | х | | | |
| Helston | | | х | | | |
| Mabe | x | | | | | |
| Mount Hawke | | | | | х | |
| Mullion | | х | | | | |
| Mullion | | х | | | | |
| Mullion | | х | | | | |
| Penpol | | | | | х | |
| Penryn | x | | | | | |
| Penryn | x | | | | | |
| Penryn | | | Х | | | |
| Penryn | х | | | | | |
| Perranporth | | | х | | | |
| Perranwell Station | | | х | | | |
| Portreath | | x | | | | |
| Portreath | | x | | | | |
| Portreath | | x | | | | |
| Portreath | | x | | | | |
| Restronguet | | x | | | | |
| St Ives | | x | | | | |
| Stithians | | х | | | | |



Deliveries to Customers Outside Devon/Cornwall (2005 - Nov13)

| | Cu | ut (Building) Sto | one | Selected (Walling) Stone | | |
|-------------------|-------|-------------------|--------|--------------------------|------------|--------|
| Location | 100t+ | 100t - 10t | n/e10t | 100t+ | 100t - 10t | n/e10t |
| Andover | | | | | | х |
| Bridgwater | | x | | | | |
| Bristol | | x | | | | |
| Bristol | | x | | | | |
| Bristol | | x | | | | |
| Chelmsford, Essex | | | | | х | |
| Crowcombe | | | | | х | |
| Godstone, Surrey | | | | | х | |
| Isle of Man | | | | | | х |
| Lympstone | | | | | | х |
| Tamworth | | | х | | | |



APPENDIX 05

Wills Accountants Report

Wills Accountants

09 April 2015

The Directors Yennadon Stone Ltd Yennadon Quarry Iron Mine Lane Dousland Yelverton Devon PL20 6NA

Dear Sirs

Lantoom Ltd ("the company")

Assignment

You have asked us to critically appraise the financial performance of the company and their suitability to be able to absorb your business should that ever occur, in response to your application for planning which was countered by the company stating that they could replicate your business from their quarry.

The company is registered in England number 04129832 and has a financial year of 31 March.

The company extracts Cornish stone from its quarry some 30 miles from the Yennadon quarry.

Information available

We have been supplied with the abbreviated accounts for the company for the years ended 31 March 2009 to 2014 which are readily available in the public domain at Companies House as well as certain information regarding the market place and the products that we have gleaned by working with you.

Disclaimer

This is a brief appraisal of the financials of the company – this is not meant to be an exhaustive, nor is this meant to be a due diligence exercise and that that involves – and your use of this information is solely for your own purposes and what use you make of this report is entirely at your own risk. The comments below are based solely on the information supplied other factors could exist which we are not aware of which could alter the thoughts now being expressed.

Results

CCA

From our review of the financial information we can state:

1. Cash Flow and insolvent position.

The company has in all the financial years seen, been cash flow insolvent – the current liabilities being greater than the current assets for each year. Indeed in 2013 if it were not for the revaluation reserve the company would be Balance Sheet insolvent.

We would question how the company would be able to cope financially with the additional influx of the Yennadon business should that occur, pushing towards servicing an additional £1 million of sales, and the fact that the majority of customers use extended credit terms.

There would also be a need we consider, for the company to make additional investments in plant and equipment in the region of £400k, which again would add pressure on the company's liquidity and resources.

Thus there would be, in our view, a serious concerns on cash flow as the company is not generating and keeping sufficient cash flow to pay its way as it is.

Cash flow issues are the major cause of company closures. From the website of Dun & Bradstreet they state:

"90% of small business failures are caused by poor cash flow. Put simply, not enough cash coming in the door and too much going out. Getting paid on time and managing your outgoings is critical to business success".

2. Closing stock position and potential over stocking

Stocks of stone in 2014 are the highest for the years we have seen records of from Companies House back to 2009.

It is not unusual to hold a certain amount of stone in stock, however holding too much stock ties in cash flow and uses up valuable resource unnecessarily. We would question why a quarry would hold any significant level of stocks except for a small period of time.

We would estimate that the company are holding at least 4 weeks stock holding, this not only ties up cash, but also creates a representation within the accounts which would increase the profitability of a business artificially if the company so decided.

In this business sector we consider that during its peak call off periods of 6-8 weeks are the normal, and thus would question why a company would hold some 4 weeks of stock or approximately 300 tonnes of stock.

This business sector has the unique ability to be able to create its own stock, by using its own labour to work on the seam and create stock holdings if it so wished. In ordinary commercial business' the approach is NOT to keep stock if at possible to any great extended and keep your stock holding with your suppliers and only requisition it when orders require. Increasing stock levels and/or the costs attached to that stock holding in a financial year does though have the effect of increasing a company's profits, not that we are suggesting that this was the practice that the company adopted here.

3. Erratic recent profit and loss performance

The company has an uncertain profit pattern, and swings wildly from profit to loss year from year in the years we reviewed. Losses being reported in 2 of the last 5 years recorded at Companies House, thus there is a 40% probability of a loss in 2015?

This is worrying as it present a picture of business that is not consistent and thus the management are not reacting to the costs of the business while the company is forecasting to make a loss, or they are but too late, and then gaining the positive action the subsequent year, the relax and let overheads take over again resulting in a loss the following year. This pattern does not bode well for a business not does it paint the management efficiency in a good light.

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Overall conclusion

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à.

From the information available from Companies House and our knowledge of this business sector gleaned from Yennadon Stone Ltd and are of the opinion that the company would struggle to have the financial stability in its present form to replicate the business of Yennadon.

We trust this brief report on the company will prove useful to you in your re-application of the planning request to help counter any such similar claims made by the company to counter your re-application.

Yours faithfully

Villo Accountants Lta

Wills Accountants Ltd



APPENDIX 06 Certificates of Laboratory Analysis



| _aboratory reference no(s) : | 15-62130 - 192 | 2163 | Head Office Certificate No: 192163-15-62130-M77 |
|----------------------------------------------|---------------------------|----------------------------------|-------------------------------------------------------------------|
| Client : | John Grimes | Partnership Ltd | |
| Certificate address : | Leonards Roa Ivybridge | d | |
| | Devon PL21 0RU | | |
| Contract : | Yennadon Qua | arry | |
| lient Supplied Information | A.U. 55 1002 | | |
| Supplier's name: | Yennadon Qua | arry | |
| commercial name of stone: | Yennadon Sto | ne | 10 A |
| Petrographic name of stone: | Cube Set 1 - S | tone Samples | ~ |
| Country and region of extraction: | Data not supp | lied | |
| Surface finish of samples: | Sawn | | |
| Sampled by : | Data not supp | lied | |
| Direction of plane of anistropy: | Not shown on | specimens | |
| Date received : | 16/03/2015 | | |
| Preparation/Conditioning: | In accordance | with BS EN 137 | 55:2008 |
| Results: | 50+5 mm | | |
| specimen dimensions. | Sample No. | Water Absorption | |
| | 1 | 3.5% | |
| | 2 | 2.0% | |
| | 3 | 4.7% | |
| | 4 | 3.5% | |
| | 5 | 2.3% | |
| | 6 | 2.9% | |
| | Mean | 3.2% | |
| /ariation from test procedure : Remarks : | None | | |
| | | | ->> |
| Tested by : SS Date tested : | 22.04.15 | Approved : Bates Laboratory A | Annager [] D. Faulkner Quality Manager [] M Slater Senior Techn |

Page 1 of 1

Head Office

Unit 14 Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE

Tel 01202 622858 Fax 01202 625045

Registered Office

Hegistered Office Unit 14 Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE ACS Testing Limited Registered in England and Wales No. 4639658



Quality Testing & Materials Consultancy to the **Construction Industry**





| | | | | TESTED | IN ACCO | RDANCE WITH E | BS EN 1926:2006 | |
|-------------------------------|----------------------|---------------|---------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Laboratory re | ference no(s | 5): | | 15-62130 | - 192163 | | Head Office Certificate No : | 192163-15-62130-M81-NS |
| Client : | | | | John Gri | mes Parti | nership Ltd | | |
| Certificate ad | ldress : | | | Leonards | s Road | | | |
| | | | | lvybridge | • | | | |
| | | | | Devon | u | | | |
| Contract : | | | | Yennado | n Quarry | | | |
| Mant Currelind | -formation | | | | | | | |
| Supplier's na | me' | | | Yennado | n Quarry | | | |
| Commercial | name of ston | e: | | Yennado | n Stone | | | |
| etrographic | name of stor | ne: | | Cube Set | t 1 - Stone | e Samples | | |
| Country and | region of extr | raction: | | Data not | supplied | | | |
| Surface finish | n of samples: | | | Sawn | | | | |
| Sampled by : | | | | Data not | supplied | | | |
| Direction of p | lane of anist | ropy: | _ | Not show | vn on spe | cimens | | |
| Date receive Preparation/(| a : Conditionina: | | | 16/03/201 In accord | lo lance with | h BS EN 1926:20 | 06 | |
| lesults: | 3. | | | | | | | |
| Specimen Ty Direction of k | pe: bading: | | | Cut Unkne | own | | | |
| | | | Width | Broadth | | Comprossiva | | |
| | Sample | Height | widui | Dieauur | Failure | Strongth | | |
| | No | neight | | | Load | R | | |
| | 0.0395 | (mm) | (mm) | (mm) | (kN) | (Mpa) | | |
| | 1 | 53 | 52.0 | 53.5 | 270 | 97 | | |
| | 2 | 54 | 49.7 | 49.5 | 190 | 77 | | |
| | 3 | 49 | 49.0 | 49.3 | 320 | 132 | | |
| | 4 | 50 | 53.5 | 52.2 | 170 | 61 | | |
| | 5 | 51 | 50.6 | 48.1 | 180 | 74 | | |
| | 6 | 49 | 52.5 | 52.5 | 210 | 76 | | |
| | 7 | 50 | 54.8 | 53.7 | 170 | 58 | | |
| | 8 | 53 | 48.3 | 52.0 | 160 | 64 | | |
| | 9 | 48 | 53.5 | 50.7 | 250 | 92 | | |
| | 10 | 52 | 49.4 | 51.7 | 170 | 67 | 3 | |
| | | | 1 | Me | an value | 80 | | |
| | | | Ve | riation Co | efficient | 0.28 | | |
| | | | | | enterent | 0.20 | | |
| ariation from | n test proced | ure : | None | | | | | |
| | | | | | | | | |
| temarks : | None | | | | | | | |
| | | | | | | | | |
| | | | | | | | \geq | |
| | | | | | | | | |
| ested by : | JM | Date test | ed : | 14.0 | 4.15 | Approved : | | 25/04/2015 |
| roved Signa | tories : [] S | J White H | lead of La | boratories | [] A Bate | s Laboratory Man | ager [] D. Faulkner Quality Mana | ager [] M Slater Senior Techn |
| | samples shall be | e retained fo | r 28 days al | ter completio | n of testing, | unless written notice is | received within 14 days of certification | requesting sample retention. |
| Bulk | | The st | atement for | compliance v | with the given | n specification relates | only to the test covered by this certificate the scope of UKAS Accreditation | 8. |
| Bulk | | | 1 Iniparate | and the state of the party of the second state of | the set of | the second s | the second state with the second state of the | |
| Bulk | | | This test rec | ort shall not b | be reproduce | ed, except in full, witho | ut written approval of the laboratory | |
| Bulk | | | This test rep | ort shall not t | be reproduce | ed, except in full, witho Page 1 of 1 | ut written approval of the laboratory | |
| Bulk | | - | This test rep | ort shall not t | be reproduce | ed, except in full, witho Page 1 of 1 | ut written approval of the laboratory | |
| Bulk | | | This test rep | oort shall not b | be reproduce | except in full, witho Page 1 of 1 | ut written approval of the laboratory | |

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| | CERTI | FICATE (| OF TEST - DETERMINATION OF RESISTANCE TO SALT CRYSTALLISATION TESTED IN ACCORDANCE WITH BS EN 12370:1999 | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|--|
| aboratory reference no(s): 15-62234 - 192784 | | | | | | Head Office Certificate No: 192784-15-62234-M71 | | | | |
| Client : | | | John Gri | mes Partne | rship Ltd | | | | | |
| Certificate address : | | | Leonards Ivybridge Devon PL21 0RI | s Road 9 U | | | | | | |
| Contract : | | | Yennado | n Quarry | | | | | | |
| Client Supplied Informatio Supplier's name: Commercial name o Petrographic name o Country and region o Surface finish of san Sampled by : Direction of plane of Date received : | | Yennadon Quarry Yennadon Stone Cube Set 1 - Stone Samples Data not supplied Sawn Data not supplied Not shown on specimens | | | | | | | | |
| Preparation/Conditio | oning: | | In accord | lance with l | BS EN 12370:199 | 9 | | | | |
| 4223227 | Sample No | Height (mm) | Width (mm) | Breadth (mm) | Mass Change | Rema | arks | | | |
| | | | | | % | N | | | | |
| | 1 | 41.2 | 40.8 | 41.6 | -15.1 | Nor | ne | | | |
| | 3 | 42.0 | 41.8 | 38.6 | -0.8 | Nor | ne | | | |
| | 4 | 41.1 | 40.3 | 41.1 | -17.0 | Nor | ne | | | |
| | 5 | 40.9 | 39.4 | 41.1 | -4.9 | Nor | ne | | | |
| | 6 | 39.7 | 41.0 | 41.2 | -14.2 | NOI | ne | | | |
| Variation from test pr Remarks : | rocedure : See atta | None ched pho | otographic | c records - j | prior to and post | testing | | | | |
| ested by : JM/J proved Signatories Bulk sam | B/PJ Date teste : [] S J White ples shall be retaine Th | ed : Head of I od for 28 dav statemen Opinie This tes | 11. aboratorie ys after comp t for complian ons and interp t report shall | 05.15 es [] A Bat letion of testing nce with the giv pretations if stal not be reprodu | Approved : es Laboratory Ma , unless written notice en specification relate ted above are not with ced, except in full, with Page 1 of 1 | nager []D. is received with s only to the test in the scope of C rout written appr | Faulkner Quality in 14 days of certificat t covered by this certifi UKAS Accreditation roval of the laboratory | 14/05 Manager [.] M Slater Senior ion requesting sample retention. cate. | i/2015 Techni | |
| Head Office Unit 14 Blackhill Road West | | Regist Unit 1 Blackh | ared Office 4 ill Road We | st | 6 | B | Quality Testing | & Materials Consultancy | - 9 | |

Tel 01202 622858 Fax 01202 625045

Poole Dorset BH16 6LE ACS Testing Limited Registered in England and Wales No. 4639658







CERTIFICATE OF TEST - DETERMINATION OF RESISTANCE TO SALT CRYSTALLISATION TESTED IN ACCORDANCE WITH BS EN 12370:1999

PHOTOGRAPHIC RECORDS





| Client : John Grimes Partnership Ltd Certificate address : Leonards Road hybridge Devon PL21 0RU Contract : Lantoom Quarry Client Supplied Information Supplier's name of stone: Commercial name of stone: Commercial name of stone: Commercial name of stone: County and region of extraction: Data not supplied Sawn Sampled by : Data not supplied Data not supplied Data not supplied Data not supplied Data not supplied Data not supplied Sawn Data not supplied Data not supplied Sawn Data not supplied Sawn Data not supplied Data not supplied Source finish of samples: Data not supplied Data not supplied Sawn Data not supplied Sawn None Remarks : None | Laboratory reference no(s) : | 15-62128 - 192 | 2161 | Head Office Certificate No : | 192161-15-62128-M77 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------|---------------------|------------------------------|---------------------|
| Certificate address : Leonards Road lyybridge Devon PL21 0RU Contract : Lantoom Quarry Contract : Lantoom Quarry Commercial name of stone: Lantoom Stone Petrographic name of stone: Data not supplied Starles finish of samples: Sawn Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date roceived : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: Specimen dimensions: S025 mm Sample No. Absorption 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% Variation from test procedure : None Remarks : None | Client · | John Grimes I | Partnership Lt | d | |
| Detrinicate address . Lobor Devon PL21 0RU Contract : Lantoom Quarry Zient Supplied Information Supplied Information Supplied Information Supplied Information Supplied Information Supplied Information Surface finish of samples: Lantoom Quarry Commercial name of stone: Lantoom Stone Cube Set 2 - Stone Samples Data not supplied Surface finish of samples: Data not supplied Sawn Data not supplied Direction of plane of anistropy: Not shown on specimens Date roceived : 160/32015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: South Stand Texture Sample No. Specimen dimensions: 50±5 mm Surface finish of sample No. Absorption 1 1 6.1% 2 2 9.9% 3 3 2.6% 4 4 6.3% 5 5 7.6% 6 6 7.8% Mean Wariation from test procedure :: None Remarks : None | Contificato address : | Leonards Roa | ud | | |
| Devon PL21 ORU Contract : Lantoom Quarry Supplied Information Supplied name of stone: Lantoom Quarry Commercial name of stone: Lantoom Stone Petrographic name of stone: Lantoom Stone Surface finish of samples: Data not supplied Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date reviewed : n accordance with BS EN 13755:2008 Preparation/Conditioning: In accordance with BS EN 13755:2008 Statter Sufficient of plane of anistropy: Specimen dimensions: South Mathematical accordance with BS EN 13755:2008 Statter South BS EN 13755:2008 Statter Sample No. Absorption 1 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 <td>Jerundale address .</td> <td>lvybridge</td> <td></td> <td></td> <td></td> | Jerundale address . | lvybridge | | | |
| Contract : Lantoom Quarry Client Supplied Information Supplier's name: Lantoom Quarry Commercial name of stone: Lantoom Stone Petrographic name of stone: Cube Set 2 - Stone Samples Country and region of extraction: Data not supplied Surface finish of samples: Sawn Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: South and the state of th | | Devon PL21 0RU | | | |
| Client Supplied Information Supplied's name: Lantoom Quarry Commercial name of stone: Lantoom Stone Petrographic name of stone: Cube Set 2 - Stone Samples Country and region of extraction: Data not supplied Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: Souther Southe | Contract : | Lantoom Qua | rry | | |
| Supplier's name: Lantoom Quarry Commercial name of stone: Lantoom Stone Petrographic name of stone: Cube Set 2 - Stone Samples Country and region of extraction: Data not supplied Surface finish of samples: Sawn Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Tesults: Soget mm Specimen dimensions: 50±5 mm Specimen dimensions: 50±5 mm Variation from test procedure : None Arriation from test procedure : None Remarks : | Client Supplied Information | | 200.40.7 | | |
| Commercial name or stone: Lancoon stone Petrographic name of stone: Cube Set 2 - Stone Samples Country and region of extraction: Data not supplied Surface finish of samples: Sawn Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: Souts Specimen dimensions: 50±5 mm Sample No. Absorption 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Supplier's name: | Lantoom Qua | rry | | |
| Percent product a struction: Country and region of extraction: Surface finish of samples: Sawn Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: South So | Commercial name of stone: | Cube Set 2 - S | ie Stone Samples | | |
| County and register of extraction. Saturn register Surface finish of samples: Sawn Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: South received : Specimen dimensions: 50±5 mm Sample No. Water Absorption 1 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Petrographic name of stone: | Data not supp | lied | | |
| Sampled by : Data not supplied Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: Souther Southers Specimen dimensions: 50±5 mm Sample No. Water Absorption 1 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Surface finish of samples: | Sawn | | | |
| Direction of plane of anistropy: Not shown on specimens Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: Soft 5 mm Specimen dimensions: 50±5 mm Sample No. Water Absorption 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Sampled by : | Data not supp | lied | | |
| Date received : 16/03/2015 Preparation/Conditioning: In accordance with BS EN 13755:2008 Results: Sol±5 mm Specimen dimensions: 50±5 mm In accordance with BS EN 13755:2008 Results: Sample No. Sample No. Water Absorption 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Direction of plane of anistropy: | Not shown on | specimens | | |
| Preparation//Conditioning: In accordance with BS EN 13755:2008 Results: 50±5 mm Sample No. Water 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Date received : | 16/03/2015 | | | |
| Results: 50±5 mm Sample No. Water Absorption 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Preparation/Conditioning: | In accordance | with BS EN 1 | 3755:2008 | |
| Specimen dimensions: 50±5 mm Sample No. Water Absorption 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | Results: | | | | |
| Variation from test procedure : None | Specimen dimensions: | 50±5 mm | | | |
| 1 6.1% 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | | Sample No. | Water Absorption | | |
| 2 9.9% 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | | 1 | 6.1% | | |
| 3 2.6% 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | | 2 | 9.9% | | |
| 4 6.3% 5 7.6% 6 7.8% Mean 6.7% | | 3 | 2.6% | | |
| 5 7.6% 6 7.8% Mean 6.7% | | 4 | 6.3% | | |
| 6 7.8% Mean 6.7% Variation from test procedure : None | | 5 | 7.6% | | |
| Mean 6.7% Variation from test procedure : None Remarks : 1 | | 6 | 7.8% | | |
| Variation from test procedure : None Remarks : | | Mean | 6.7% | | |
| Remarks : | Variation from test procedure : | None | | | |
| | Remarks : | NONE | | \ | |
| | | | | | |
| | NE VALUES AND DESCRIPTION | 211 0 <i>26628036</i> 7 | 200700000000000 | | 06/05/2015 |

Opinions and interpretations if stated above are not within the scope of UKAS Accreditation This test report shall not be reproduced, except in full, without written approval of the laboratory

Page 1 of 1

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Quality Testing & Materials Consultancy to the Construction Industry





| | | CERTIF | IGATE U | TESTED | IN ACCO | RDANCE WITH E | 3S EN 1926:2006 | |
|-----------------------------|---------------|-------------------------------|-------------------------------------------|--------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Laboratory refere | ence no(s | :): | | 15-62128 | - 192161 | | Head Office Certificate No : | 192161-15-62128-M81-NS |
| Client : | | | | John Gri | mes Parti | nership Ltd | | |
| Certificate addre | SS : | | | Leonards | s Road | | | |
| | | | | lvybridge | , | | | |
| | | | | | | | | |
| | | | | PL21 0RU | J | | | |
| Contract : | | | | Lantoom | Quarry | | | |
| Client Supplied Infor | mation | | | TATAL STATES | | | | |
| Supplier's name: | | | | Lantoom | Quarry | | | |
| Commercial nam | ne of ston | e: | | Lantoom | Stone | | | |
| etrographic nar | ne of stor | ie: | | Cube Set | 2 - Stone | e samples | | |
| Jountry and regi | on or extr | action: | | Sawa | supplied | | | |
| Surrace finish of | samples: | | | Data not | eunnlind | | | |
| Sampled by : | a of onict | 000 | | Not cher | supplied | cimens | | |
| Date received | e or anistr | opy. | | 16/03/2016 | in on spe | williens | | |
| Preparation/Con | ditionina | | | In accord | , lance wit | h BS EN 1926:200 | 06 | |
| Paculto | | | | | | | | |
| Specimen Type: | | | | Cut | De | | | |
| Direction of loadi | ing: | | | Unkno | own | | | |
| - - | | | | | | | ř. | |
| | Sample | | Width | Breadth | Failure | Compressive | | |
| | No | Height | | | Load | Strength | | |
| | 140 | | | 2010-002755 | Loud | R | | |
| | | (mm) | (mm) | (mm) | (kN) | (Mpa) | | |
| | 1 | 51 | 49.0 | 49.5 | 30 | 12 | | |
| L 1 | 2 | 48 | 50.0 | 48.3 | 60 | 25 | | |
| L | 3 | 49 | 49.6 | 48.9 | 60 | 25 | 0 | |
| | 4 | 47 | 49.9 | 46.0 | 60 | 26 | | |
| | 5 | 48 | 49.8 | 45.8 | 50 | 22 | | |
| L | 6 | 50 | 48.0 | 50.2 | 70 | 29 | | |
| | 7 | 50 | 49.2 | 50.1 | 30 | 12 | | |
| F | 8 | 48 | 49.3 | 49.8 | 00 | 24 | | |
| H | 9 | 50 | 50.8 | 49.6 | 20 | 32 | | |
| | 10 | 50 | 48.3 | 49.6 | 30 | 22 | | |
| | | | | tandard D | an value | 7 | | |
| | | | Va | riation Co | efficient | 0.32 | | |
| | | | 133 | | water of the officer | | | |
| Variation from te | st proced | ure : | None | | | | | |
| | | | | | | | | |
| Remarks : N | lone | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | 4.45 | Anneniedi | | ACIACIONAL |
| Tested burn | M | Date test | ed : | 14.04 | 4.15 | Approved : | | 06/05/2015 |
| Tested by : J | ies 11S | J White H | ead of La | boratories | [] A Bate | es Laboratory Mana | ager [] D. Faulkner Quality Mana | iger [1] M Slater Senior Techni |
| proved Signator | 100.110 | and a local difference of the | . 20 4 | tor according | a alteriter | unloss welter seller is | manium within 14 down of continention | national cample retention |
| proved Signator Bulk sam | ples shall be | e retained for The st | r 28 days af atement for | ter completion compliance v | n of testing, with the give | unless written notice is n specification relates | received within 14 days of certification r only to the test covered by this certificate | requesting sample retention. a. |
| proved Signator Bulk sam | ples shall be | e retained fo The st | r 28 days af atement for Opinions a | ter completion compliance v and interpreta | n of testing, with the give tions if state | unless written notice is n specification relates d above are not within | received within 14 days of certification in only to the test covered by this certificate the scope of UKAS Accreditation | requesting sample retention. a. |

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| Con the state of the second | | | TEST | ED IN ACCO | ORDANCE WIT | H BS EN 12370:1999 | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Laboratory reference | | 15-62128 - 192161 | | | Head Office Certificate No: 192161-15-62128-M71 | | | |
| Client : | | | John Grimes Partnership Ltd | | | | | |
| ortificate address : | | | Leonarde | Road | | | | |
| Certificate address : | | | lyybridge | | | | | |
| | | | Devon | | | | | |
| | | | PL21 OR | J | | | | |
| | | | | | | | | |
| Contract : | | | Lantoom | Quarry | | | | |
| lient Supplied Information | | | | | | | | |
| Supplier's name: | | | Lantoom Quarry | | | | | |
| Commercial name of stone: | | | Lantoom Stone | | | | | |
| Petrographic name of stone: | | | Cube Set 2 - Stone Samples | | | | | |
| Country and region of extraction: | | | Data not | supplied | | | | |
| Surface finish of samples: | | | Sawn Data act supplied | | | | | |
| Sampled by : Direction of plane of printerest | | | Not show | n on speci | mens | | | |
| Direction or plane or anistropy: | | | 16/03/2015 | | | | | |
| Preparation/Conditioning: | | | In accordance with BS EN 12370:1999 | | | | | |
| esults: | | | | | | | | |
| | | | | | | | | |
| | Sample | Height | Width | Breadth | Mass | Remarks | | |
| | No | (mm) | (mm) | (mm) | Change | | | |
| | | | | | % | | | |
| | 1 | 39.0 | 40.4 | 39.6 | -30.6 | Stopped at 12 cycles | * | |
| | 2 | 40.6 | 40.5 | 40.5 | -43.2 | Stopped at 12 cycles | | |
| | 3 | 40.3 | 40.5 | 41.2 | -62.2 | Stopped at 12 cycles | | |
| | 4 | 39.0 | 40.7 | 38.0 | -42.7 | Stopped at 12 cycles | | |
| | 5 | 39.1 | 39.4 | 39.7 | -20.5 | Stopped at 12 cycles | | |
| | 0 | 30.9 | 39.2 | Joan Value | -44.2 | Otopped at 12 eyeles | | |
| | | | | | | | | |
| ariation from test pro | cedure : | Test stop | oped after | 12 cycles i | instead of the | required 15 cycles, sam | ples extensively disintegrated. | |
| fariation from test pro | cedure : See atta | Test stop ched pho | oped after otographic | 12 cycles i records - j | instead of the prior to and po | required 15 cycles, sam st testing | ples extensively disintegrated. | |
| fariation from test pro | cedure : See atta | Test stop | oped after otographic | 12 cycles i records - | instead of the prior to and po | required 15 cycles, sam st testing | ples extensively disintegrated. | |
| /ariation from test pro Remarks : | cedure : See atta | Test stop | oped after | 12 cycles i c records - j | instead of the prior to and po | required 15 cycles, sam | ples extensively disintegrated. | |
| /ariation from test pro Remarks : | cedure : See atta | Test stop | oped after | 12 cycles i c records - i | instead of the prior to and po | required 15 cycles, sam st testing | ples extensively disintegrated. | |
| /ariation from test pro Remarks : | Cedure : See atta | Test stop ched pho | oped after otographic | 12 cycles i c records -) | nstead of the prior to and po | required 15 cycles, sam st testing | ples extensively disintegrated. | 5/2015 |
| /ariation from test pro temarks : ested by : JM/JB. | /PJ Date teste | Test stop ched pho ed : <i>Head of I</i> | oped after otographic 11. | 05.15 012 cycles i 05.15 | instead of the prior to and po Approved : es Laboratory | required 15 cycles, sam st testing Manager [] D. Faulkner (| ples extensively disintegrated. 14/05 Quality Manager (*) M Slater Senior | 5/2015 Technic |
| /ariation from test pro temarks : ested by : JM/JB/ proved Signatories : Bulk sample | /PJ Date teste []S J White as shall be retained | Test stop ched pho ed : <u>Head of L</u> d for 28 day | pped after otographic 11. aboratorie rs after comp | 05.15 05.15 | Approved : es Laboratory | st testing Manager [] D. Faulkner | ples extensively disintegrated. 14/05 Quality Manager M Slater Senior certification requesting sample retention. | 5/2015 Technic |
| /ariation from test pro temarks : ested by : JM/JB/ proved Signatories : Bulk sample | /PJ Date teste [] S J White as shall be retaine Th | Test stop ched pho ed : <u>Head of L</u> of for 28 day opinie | pped after ptographic tographic 11. aboratoric rs after compil t for compila ins and inter | 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05 | Approved : es Laboratory , unless written no en specification rel ed abova are not | Anager [] D. Faulkner (bittes only to the test covered by ittes only test | ples extensively disintegrated. 14/05 Quality Manager M Slater Senior certification requesting sample retention. this certificate. itation | 5/2015 Technic |
| fariation from test pro temarks : fested by : JM/JB proved Signatories : Bulk sample | /PJ Date teste] S J White as shall be retaine Th | Test stop ched pho ed : <u>Head of L</u> d for 28 day re statemo Opinic This tes | pped after otographic stographic safter complia t for complia t for complia t report shall | 12 cycles i records - records - 05.15 ss [] A Bat letion of testing rece with the giv retations if sta not be reprodu | Approved : es Laboratory , unless written no en specification rel ted above are not v ced, except in full, | required 15 cycles, sam st testing Manager [] D. Faulkner (ice is received within 14 days of itses only to the test covered by ithin the scope of UKAS Accred without written approval of the la | ples extensively disintegrated. 14/05 <u>Quality Manager</u> M Slater Senior certification requesting sample retention. this certificate. litation boratory | 5/2015 Technic |
| fariation from test pro temarks : fested by : JM/JB proved Signatories : Bulk sample | /PJ Date teste []SJ White as shall be retaine Th | Test stop ched pho ed : <u>Head of L</u> d for 28 day re stateman Opinic This tes | 11. aboratorie s after complia ins and interr treport shall | 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05.15 05 | Approved : es Laboratory , unless written ret en specification ret ted above are not ced, except in full, Page 1 of 1 | tequired 15 cycles, sam st testing | ples extensively disintegrated. 14/05 Quality Manager M Slater Senior certification requesting sample retention. this certificate. litation boratory | 5/2015 Technic |
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CERTIFICATE OF TEST - DETERMINATION OF RESISTANCE TO SALT CRYSTALLISATION TESTED IN ACCORDANCE WITH BS EN 12370:1999

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