

**Report on site visit to assess cleaning of Station Tavern Grosmont**

made by:

Tim Crowe, Director of Stonehealth Limited

On 20<sup>th</sup> January 2016

Ref: Job No: 843  
Customer ID: MILL002  
Steve Griffiths - Millson Associates

16 FEB 2016

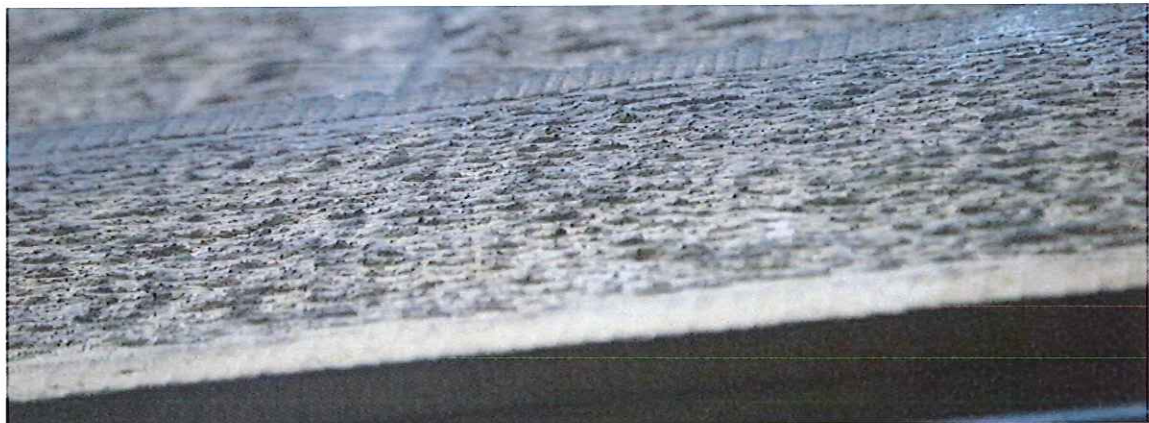


At the request of Steve Griffiths of Millsom Associates Tim Crowe of Stonehealth visited the Station Tavern Grosmont to view cleaning made by a local contractor using the Farrow Warm Slurry Blast System.

From previous experience of the Farrow system Tim Crowe was anticipating that major surface damage would be apparent, as this system is quite aggressive even with the water that would normally soften the impact of the abrasive cleaning. He presented a video clip make by Farrow Systems themselves that admitted pitting the surface of a boat which proves that the system is likely to cause damage.

See: <https://youtu.be/bOGkZL3bizs>

These two pictures show the string course in an uncleaned area and a cleaned area.





This picture shows a close up of a sharp combed finish



This picture shows the sharpness removed from the combed finish

This picture shows hard cement pointing and carbon that will be trapping moisture and ultimately causing frost damage.



This picture shows where the frost has already damaged the substrate through hard pointing, carbon and a lack of drip-groove on the window cill.





This Grosmont ironstone, as the name suggests has an abundance of iron rich minerals (sometimes as much as 40%) that creates the mustard discolouration and although this could be removed it is suggested that it is worth conserving these as they are part of the history of the building landscape.

#### Conclusion:

In my opinion the sides of the building that have been cleaned are over cleaned and much of the combed tool marks have been eroded due to the aggressive nature of the Farrow system. The over-bright colour of the iron stone shows the distinct possibility that hydrofluoric acid has been used in conjunction with the abrasive cleaning. (Test results will confirm this).

With Stonehealth DOFF and TORC systems a competent operator should identify those areas where there is a variation between different surfaces and the soiling patterns in order that they will reduce the intensity of the contrast. It is possible to feather out and make the whole area unified and therefore being aesthetically pleasing.

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Tim Crowe – Director of Stonehealth Limited

27<sup>th</sup> January 2016