

Leagram Mill Farm, PR3 2QS

Structural Report

Client: Kim Weld-Blundell

Author: Frazer Clarke

Date: 12/06/2025

Reference: 25039-PWA-00-XX-RP-S-1000-P01

PWAGROUP.CO.UK



Document Control

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Project: Leagram Mill Farm, PR3 2QS

Report: Structural Report

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Executive Summary

PWA were appointed to undertake a structural survey of Leagram Mill Farm, following proposals to convert the buildings into dwellings. This report assesses the structural condition of the buildings and highlight any defects requiring attention during the conversion works. The survey excludes non-structural elements such as electrical systems, decorative conditions, and non-structural timber fixtures.

A site inspection was undertaken on 6th July 2025 by Frazer Clarke of PWA Group. The inspection included external and internal elevations. Roof timbers, foundations and encased structural elements were not exposed for detailed inspection.

The smaller building is in a tolerable condition, with a partially collapsed roof, missing/loose masonry, small cracking and areas of damp.

The larger building is in a good condition, there is some areas that require repairs with missing/loose masonry and a compromised timber first floor. Some cracking is present though mainly noted as superficial.

It is recommended that:

- Repair and replace deteriorated timber and masonry components.
- Address roof failures by replacing missing or slipped slates and tiles and replacing roof where it has collapsed.
- Undertake a timber survey.
- Install appropriate wall ties and insulation liners to improve structural integrity.
- Ensure guttering is maintained, timber lintels are replaced and windows installed.

In conclusion the buildings require repairs to prevent further structural deterioration. A scheme of repairs and maintenance plan should be implemented to ensure the long-term stability of the buildings.



Contents

1.	Brief
2.	Unexposed Parts
3.	Method of Inspection
4.	Disclosure to a Third Party
5.	Description of the Site
6.	Inspection of the Site
6.1.	Building 1
6.2.	Building 2
7.	Recommendations
8.	Conclusion
8.1.	Building 1
8.2.	Building 2

Appendix A – Site Photographs

Appendix B – Desktop Study Information



1. Brief

PWA have been appointed to undertake a structural survey of Leagram Mill Farm following proposals being put forward to convert the buildings into dwellings. The purpose of the report is to comment on the structural condition of the buildings for their conversion and comment on any structural defects which will need addressing during the course of the conversion.

This report is confined to an inspection of the structural elements of Leagram Mill Farm. Therefore, the report excludes any inspection or comment on electrical and mechanical installations, decorative conditions, damp proofing, non-structural timber fixtures, fittings, mouldings, coverings and all other non-structural matters.

Whilst we will use all reasonable skill and care in preparing this report, it should be appreciated that we cannot guarantee that the property will be free from future defects or that existing defects will not suffer further deterioration.

2. Unexposed Parts

Internal inspection is made within the limits of ready accessibility, and it is not normal practice to expose foundations, encased ground beams or give detailed inspections of timber.

3. Method of Inspection

External and internal inspections of the property have been carried out from floor levels. This means that part of the structure, such as roof timbers could not be inspected in detail, and we cannot confirm that they are free from defect.

A site inspection was undertaken on 6^{th} July 2025 by Frazer Clarke of PWA Group. The weather at the time was clear so viewing of the external walls was not compromised. Internally, there was one area with limited light which compromised viewing however the remaining areas were not compromised.

4. Disclosure to a Third Party

This report may not be relied upon by a third party for any purpose without written consent of this practice. Furthermore, this report has been prepared and issued specifically for the benefit of the addressee and no responsibility will be extended to any third party for the whole or any part of its content.

5. Description of the Site

Leagram Mill Farm is located off Little Bowland Road, Leagram. There are two single storey buildings and are currently not used. It is unclear from historic maps when these were constructed.

From reviewing geological records in the area, we expect that the ground consists of boulder clay and limestone. (See appendix B)

The stone walls are of a rubble fill construction being some 400-600mm thick. All the external elevations are roughly coursed stone. The only exception to this is an area of the larger building which has a blockwork liner wall constructed within a steel frame inbound of the existing stone walls.

Internally the walls are roughly coursed stone with some whitewashed and some with concrete render. The exception to this is in the smaller building where some brickwork walls have been used.

The roof to the smaller building has a pitch of approximately 30°. The roof is clad in stone slates & the roof is a traditional rafter and purlin construction. The larger building roof varies in pitch & construction, varying from a traditional construction with blue slate to a truss construction with blue slate. Sections of this building looks to have been re-roofed recently.

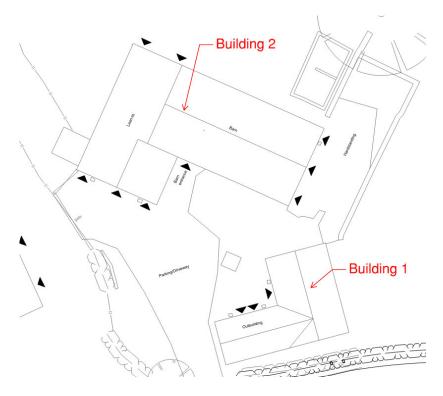


The external & internal lintels to the windows are a combination of timber, stone and concrete, with the timber and stone appearing to be historic and are not recent additions to the building.

The ground floor of the buildings are solid construction varying in heights and some areas being sloped.

6. Inspection of the Site

Refer to Appendix A for photos referenced in this report.



6.1. Building 1

The roof timbers visually appeared damp in areas, it was also noted that the roof has holes in across its length at the ridge and along its pitch. The structure is at risk of degradation from water ingress. (Photo 1 & 2).

A section of the roof is in a state of disrepair. The roof has collapsed. (Photo 3).

The external and internal walls are missing masonry, and holes are present in the wall. (Photo 4 & 5).

The external and internal walls have missing/loose mortar. (Photo 6).

Timber lintels are present over door openings; these will need replacing as part of the conversion works.

Damp was noted in areas of the building. (Photo 7).

There is a series of small vertical cracks varying in size from 1-5mm, some of these were noted in the finishes, but it was not possible to confirm whether these were present in the masonry. (Photo 8, 9 & 10).

The guttering is in poor condition and is missing in some areas, the structure is at risk of degradation from water ingress.



6.2. Building 2

The roof trusses visually appeared damp in areas.

The external and internal walls are missing masonry and holes are present in the wall. (Photo 11 & 12).

The external and internal walls have missing/loose mortar. (Photo 13).

Timber lintels are present over openings; these will need replacing as part of the conversion works.

There are windows missing, leaving the structure is at risk of water ingress.

A small area of first floor is in a state of disrepair, it has partially collapsed. (Photo 14).

The guttering is in poor condition and is blocked in some areas from vegetation and is also missing in some areas, the structure is at risk of degradation.

There is vegetation present on the external walls. (Photo 15).

Steelwork is showing signs of rust and oxidisation in areas. (Photo 16).

There is a series of small cracks varying in size from 0.1-5mm, some of these were noted in the finishes, but it was not possible to confirm whether these were present in the masonry. (Photo 17, 18 & 19).

7. Recommendations

Hairline cracks of less than 0.1mm in size are classed as negligible and no action is required for these.

Cracking ranging from 0.1-1mm can be treated using normal decoration methods.

Cracking ranging from 1-5mm should be treated using a suitable lining. Some external repointing may be required to ensure water tightness.

Cracking ranging from 5-15mm require opening up and being patched by a mason. External repointing and possibly a small amount of masonry replacement.

A full scheme for crack repairs should be undertaken.

A full timber survey must be undertaken to determine whether the timber is suitable for re-use and does not need replacing.

All slipped slates/tiles must be replaced and the roof made good.

Where the roof has failed, this must be replaced.

Any vegetation in gutters must be removed and maintained thereafter. Where further damage to the guttering has occurred or is missing these areas must be made good.

Any loose or missing mortar should be repointed/replaced and made good.

Any loose or missing masonry should be replaced and made good.

It is noted that timber lintels are present throughout the buildings, it would be advised that these are replaced with suitable concrete lintels.

Windows are to be installed to prevent water ingress.

Roof flashings above damp timbers must be repaired to prevent any further water ingress.



It is assumed that a blockwork liner wall will be constructed (where not currently present) to the internal perimeter of the buildings to allow for insulation to be introduced. The new blockwork liner wall should be tied back to the existing external walls using wall ties at appropriate horizontal and vertical centres. The wall ties should allow for vertical movement to allow for any settlement between the liner walls and existing walls. A new foundation will also be required to support the liner wall.

8. Conclusion

8.1. Building 1

Structurally speaking the building is suitable for conversion, providing the advised remedial works are undertaken, the lack of maintenance to the roof has resulted in the partial collapse and slates slipping therefore holes forming. A scheme of repairs is required to prevent any more collapse which will only accelerate if left unaddressed.

8.2. Building 2

Structurally speaking the building is in good condition, a small scheme of repairs is required to prevent any future issues or degradation of existing structural issues.

General maintenance should be carried out on both properties regularly and issues outlined in this report should be addressed and monitored to ensure that any defects do not deteriorate further or reappear.

Overall, if the above issues outlined are addressed then the buildings would be suitable for conversion.

Should any defects noted above be present, then a suitably qualified engineer should be notified.



Appendix A – Site Photographs

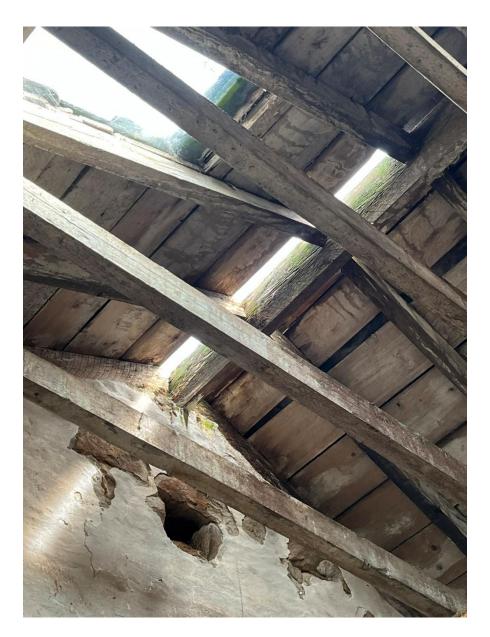


Photo 1



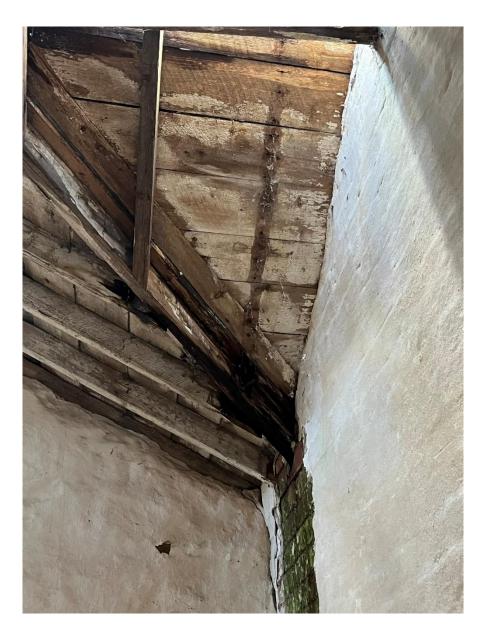


Photo 2





Photo 3



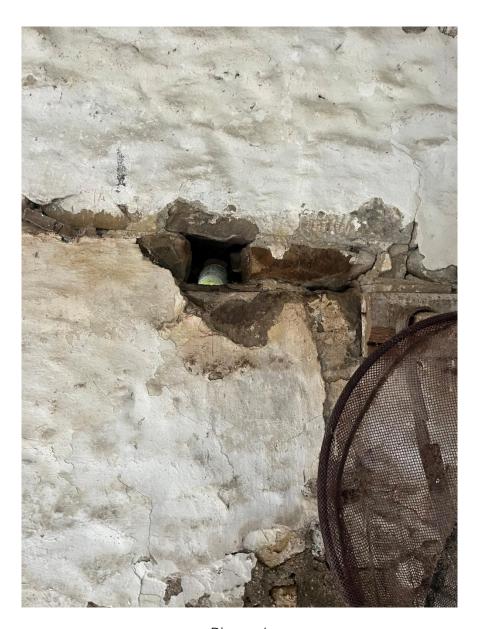


Photo 4



Photo 5



Photo 6



Photo 7

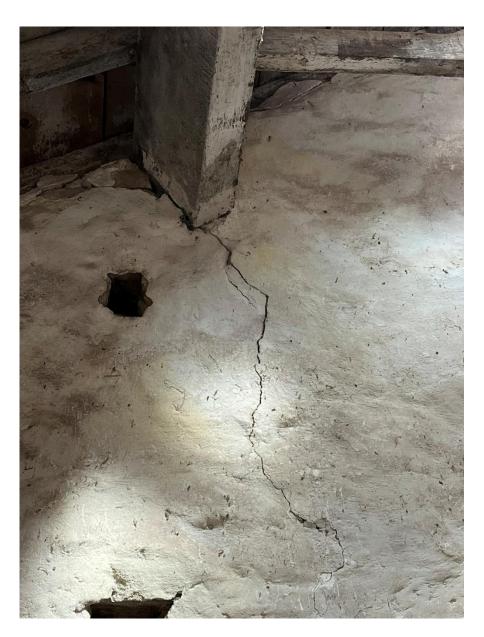


Photo 8



Photo 9

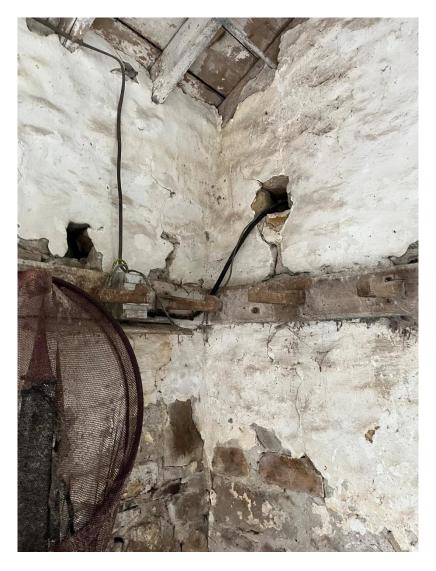


Photo 10





Photo 11





Photo 12

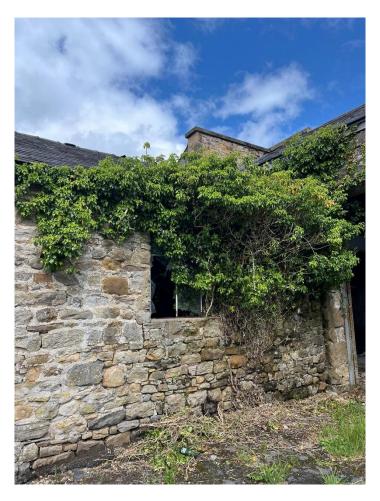


Photo 13





Photo 14



Photo 15





Photo 16



Photo 17

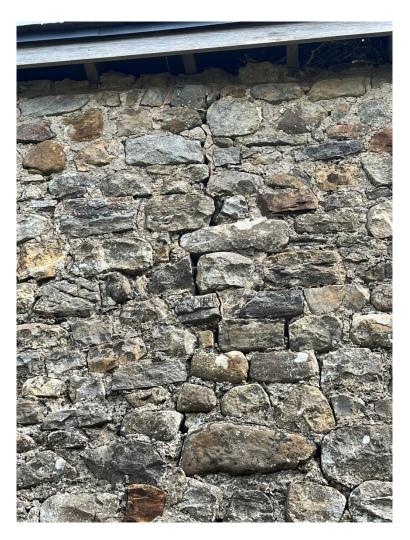


Photo 18

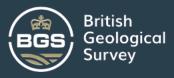




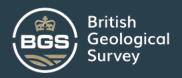
Photo 19



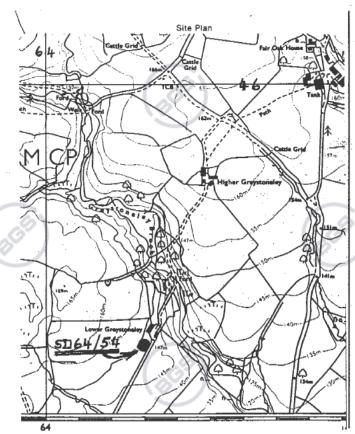
Appendix B – Desktop Study Information



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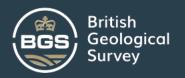
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Both properties are owned by MR Baily It is understood that this bhi supplies both the above mentioned properties DCf BGS informed of this amendment at are the Register & V.1. DCP.



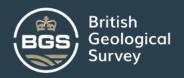
FORM WR-39/3



PUMPING TEST DATA

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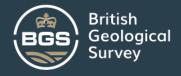


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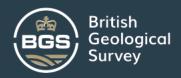


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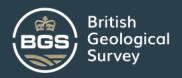
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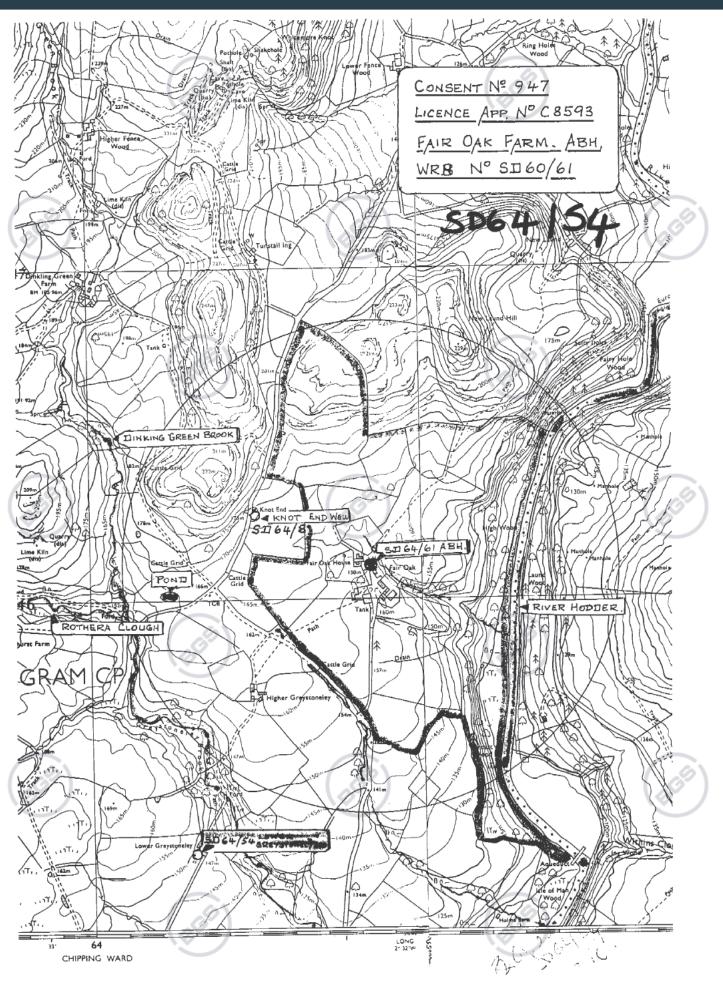


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