

A D Horner Limited

Land and Measured Building Surveyors

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Summary of Findings of A D Horner Limited at Marlbrook Tip, Alvechurch Highway, Bromsgrove

Work was carried out by our survey teams at Marlbrook Tip over a period of 6 days, concluding on 13th April 2011.

This topographic (land) survey information has been processed through a specialist 'ground modelling' software package to produce a level and contour map of the area.

A comparison has then been made between this contour map and the contour map supplied to the planning authority by Liberty Construction Ltd. (drawing 650.06.02 – Restoration Phasing). Note - we were unable to obtain the restoration drawing in a suitable format to use with our modelling software and had to resort to scaling co-ordinates from the paper copy. However, we are satisfied this method has produced an accurate representation of the drawing.

The current levels have also been compared with the original survey of the land undertaken by M&A Surveys on behalf of Liberty Construction Ltd in January 2003 (drawing 03/001_01).

Our conclusions are as follows :

The volume of material added to the site between the January 2003 survey and the A D Horner Ltd survey of April 2011 is 1,479,200 cubic metres.

According to the Restoration Phasing design, we estimate the volume of material which should have been brought to site is circa. 396,700 cubic metres.

This equates to 1,082,500 cubic metres of excess material.

To produce a 100% accurate volume calculation, the boundary of the land being compared would need to be identical. As this is not the case, fence/hedge lines have altered slightly over the period since the 2003 survey, we are quoting an accuracy of +/- 1%.

In order to illustrate where the excess material is situated, we have provided a plan of the site using different bands of colour to represent the depth in metres of material above the permitted design level. For example the green band shows where the existing ground levels match the permitted design, whereas the lilac band shows where existing ground is between 1.5 and 3.0 metres above the permitted design level.

We have also drawn 3 cross-sections across the site, which further illustrate the difference between the permitted design levels and the actual levels.

9th June 2011

