

Topographic Survey, Old Fen, Garboldisham

Mike Harding and Laura Cox used a laser level to undertake topographic surveys of the accessible parts of Old Fen on 26th March 2013. The weather was cloudy, cold but clear. The site was wet with hollows holding water. Dense scrub prevented access to much of the site but high laser positions allowed all of the reed areas to be surveyed.

The main TBM used was the north-west corner of the concrete bridge where the track crosses the main stream. This was determined by OHES to be 20.61m AOD.

The levelling was accurate; there was zero error on the first main loop around the fen, with 1mm error on the second loop.

A Temporary Bench Mark was levelled onto the **top flat of the lower hinge of the pedestrian gate entering Scarfe's Meadow**. This is at 20.935m AOD. Figure 1 shows this location.

The reduced levels were rounded to the nearest cm and plotted on the map of Old Fen. Locations are approximate as locations of topographic points were located by eye in the field. They are probably as accurate as a hand-held GPS on this site because of the dense reed and scrub and the valley position, all of which affect GPS readings. Levels are shown on Figure 2.

Figure 1 : Location of TBM at Scarfes Meadow: 20.935m AOD



Figure 2: Levels for accessible areas of Old Fen. All figures are mAOD.

