Geophysical Survey for Archaeological Prospection

J.M.Leigh surveys

Contact Details

For further information regarding J. M. Leigh Surveys or to get a quote call or email. Our web site is also regularly updated.

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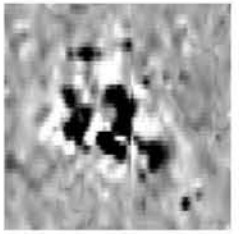
Rapid Geophysical Survey for Archaeological Projects



- Geophysical Survey Consultancy
- Survey Design & Methodology
- Geophysical Survey Fieldwork
- Concise Interpretation & Report

Profile

J. M. Leigh Surveys is an independent consultancy that has over 8 years experience in archaeological geophysics for commercial and research projects.

Experience to date has involved project management and research contributions in The Republic of Ireland, the United Kingdom and Romania.

We specialise in non-invasive geophysical evaluation of sites for archaeologists, planners and developers.

All projects at J. M. Leigh Surveys are supervised by Joanna Leigh (BSc Archaeological Sciences 1997, MSc Archaeological Prospection 1999) who has managed an extensive list of geophysical projects including road schemes, pre-planning projects, local area action plans and environmental impact assessments.

Current research work includes a project funded by The Heritage Council centring on a geophysical survey of monuments located within the Curragh, County Kildare.

Services

With our experience we are able to provide the most professional, cost effective and up to date techniques regarding client needs and can offer advice regarding survey techniques, methodology, ground conditions and geological complications.

We will respond quickly to any request for our services in any location.

Concise preliminary results are provided electronically upon client request soon after fieldwork is completed.

A full and concise geophysics report is provided for every survey accompanied with an additional copy supplied on digital format to facilitate their inclusion in the clients own documentation.

Special care is taken to present our findings in a format that can be easily understood and integrated by non-geophysical specialists.

The report consists of a summary page, highlighting the key information and results of the survey. A detailed section of the survey results are then provided with reference to any responses of archaeological potential or of archaeological interest. Survey diagrams display the site and survey location, and summary greyscale images and interpretations are also presented. The interpretation diagrams provide a clear representation of the results with reference to any archaeological implications.

Techniques and Methodology

Magnetometer and resistance surveys are the most frequently applied techniques for archaeological prospection.

Magnetometer Survey

For magnetometer surveys we use a fluxgate gradiometer. This instrument measures the vertical gradient of the local magnetic field and small magnetic variations resulting from buried archaeological remains, such as ditches and burnt features.

Magnetometer survey is ideal for identifying a variety of site types including occupational, industrial and ritual archaeology. Field survey with the gradiometer instrument is also considerably fast, and large areas can be accurately surveyed in a short time.

Resistance Survey

Resistance survey is highly effective in locating buried archaeological remains. A small electrical current is passed through the ground and the resulting earth resistance is measured. This technique is often applied in conjunction with magnetometer survey. Resistance survey can provide additional information and aid interpretation of the magnetometer survey results.