

## Case Study

**Client** Rydon Construction and Taylor Wimpey  
Furfield Quarry, Maidstone Kent

**Project date** 1998 – Present  
**Area** 12Ha

**Case Study date** March 09  
**Budget** £750 K

**Project: Reclamation, containment engineering and ongoing management of former domestic waste site for open space/ recreational use.**

### Services provided

Environmental Consultants; Civil Engineering Consultants; Geotechnical Consultants; Health and Safety Consultants; Project Management Consultants; Site Supervision Consultants (Resident Engineers/ Clerk of Works); Hydrology and Hydrogeology Consultants



### Project description

The site comprised a former domestic waste landfill site which was producing significant amounts of landfill gas. An area of greenfield development land was located adjacent to the landfill and both areas of land were under common ownership.

The local authority considered the landfill site itself as a Part IIA site as a result of the potential for uncontrolled migration of gas to adjacent houses and potential for groundwater contamination. Merebrook assisted both the council and potential purchasers by undertaking investigation of the land and producing reports on landfill gas production and migration risk assessment.



A complex Section 106 agreement was formulated, based on Technical Specifications for the reclamation of the landfill produced by Merebrook.

Workable control measures were developed which allowed the authority to consent to development of the greenfield parcel. These included the tender and procurement of an on-site landfill gas flare system, design of reactive landfill gas control barrier, supervision of installation of gas monitoring and control measures and design and supervision of landfill capping. The system includes a fully integrated remote telemetry and control system which is managed by Merebrook from the Kent office.

Merebrook is now overseeing the completion of the cap restoration and undertaking long term monitoring and validation of gas protection measures for adjoining development. There is an ongoing role in managing the gas control system and monitoring leachate quality.

The site was successfully remediated by unlocking the value of the development land to fund the restoration works