

Project Case Study: Fagley Quarry, Bradford

Services: Demolition, Remediation and Preparatory Earthworks



Demolition | Enabling Earthworks | Remediation | Drilling | Civil Engineering | Plant & Technology | Geotechnical | Environmental | Planning | Renewable Energy

The Sirius Group: Confidence you can build on

Client: Keepmoat Homes

Project: Former Fagley Quarry, Bradford

Duration: 10 months

Services: Demolition, Remediation and Preparatory Earthworks

Sector: Residential

Contract value: £1.9m



Sirius has a fleet of the most up-to-date, fuel-efficient machines equipped with GPS for the most efficient and accurate works

Project Description

Demolition, Remediation and preparatory earthworks of former operational and backfilled quarries for development of 262 residential properties.

Site Features

The 31 acre site consisted two former quarries – one historically filled with up to 18m of largely inert landfill and quarry overburden soils and the second, part open void and part backfilled at a similar depth to the older quarry. Site infrastructure including offices, weighbridge, stone cutting sheds and warehousing were scheduled for demolition.

Early Involvement

Sirius' involvement in the project began 3 years prior to commencement, carrying-out extensive ground investigation, asbestos surveys, remediation design, quantification and abnormal cost analysis to support Keepmoat's purchase of the site. Sirius' project team engaged with both NHBC and Bradford City Council's highways department to define a scheme of remediation and ground improvement which would satisfy both parties requirements for indemnifying and adopting the development. The quarrying operation

The former Fagley Quarry before commencement of Sirius works



continued throughout the design and negotiation process, which presented cost variances for both remediation and proposed house foundations, which Sirius tracked and advised continuously. Regular dialogue with our client and the site's vendor ensured transparency of cost implications through the ongoing quarrying.



Geogrid installment



Compaction works



Earthworks

Works outline

- Asbestos removal & demolition of existing structures
- Eradication of Japanese Knotweed
- Culvert diversion
- Earthworks including screening & crushing of circa 230,000m³ soils & rock
- Depth specific earthworks & reinforcement to support proposed drainage & highways
- Surcharging & monitoring for proposed raft foundations.

Continuous tracking and recording of backfilled quarry features informed adjustment of ongoing earthworks to achieve foundation betterment for our client. The works were completed on-time and provided early phased release, allowing infrastructure and development to progress. The contract was completed at a previously agreed lump-sum, fixed price. The works were tested and validated to the satisfaction of regulatory authorities, supported by early involvement and liaison.



Highway excavation

All ground investigation, asbestos surveys, geotechnical design, demolition and preparatory earthworks were carried out by Sirius' technical and operational teams using Sirius plant & equipment.

Demolition, earthworks, remediation, drilling and civil engineering contractors. Geotechnical, environmental and planning consultants. Renewable Energy.

Sirius Offices:

North East Tel: 0191 378 9972
North West Tel: 01942 718 551
Central Tel: 0113 264 9960
Wales Tel: 01554 780 544

Email: info@thesiriusgroup.com

Website: www.thesiriusgroup.com

Follow **thesiriusgroup** on:

