



31st May 2020

Our reference – 32323

Coal Authority Permit reference – 19664

Re: Site investigation at land off Ravenfield Drive, Barnsley, S71 1UP

To whom it may concern,

Ground Support Services (Uk) Ltd (GSS) were commissioned by Lee Forster of ABS Developments to undertake intrusive rotary site investigation works at the above site address to ascertain the presence of shallow mining beneath the proposed development.

To facilitate this a permit was applied for in the client's name / company (Lee Forster / ABS Developments). The Coal Authority mentioned the site may be faulted but no other concerns were raised about our scope of works or the proposed borehole depths.

We commenced drilling on site by initially drilling a 30m borehole (BH7) to ascertain the presence and thickness of any coal seams beneath the site. As well as meeting the criteria of "shallow mining" this is also considered good practice in mining areas.

One coal seam was encountered in this borehole at 18.00m but it was intact and unworked. Additional boreholes were then drilled on other corners of plots (including an additional borehole to 30m) across the site to 21.00m looking for evidence of mining in that coal seam or additional coal seams but none were encountered.

The results are summarised below

No	Depth	Start of coal	End of coal	Thickness	Mining/Coal
7	30	18	19.2	1.2	No Mining
1	30	17.9	19.1	1.2	No Mining
6	21	18.1	19.1	1	No Mining
5	21	18	19	1	No Mining
8	21	18	19	1	No Mining
4	21	18.2	19.2	1	No Mining
2	21	17.9	19	1.1	No Mining
3	21	18	19.1	1.1	No Mining
	186	18.0125	19.0875	1.075	

As can be seen from the table no evidence of mining or loss of flush was found in any of the boreholes or of any faulting across the site.

We installed three gas monitoring wells (piezometers) to facilitate a gas risk assessment if required due as a result of the findings of a historic land use survey / phase 1 report identifying other receptors for ground gas.

A copy of the drilling logs, plan and permit documents are attached.

Thomas Perks

Project Management

Ground Support Services (uk) Ltd