



## Mineral Stability Risk Assessment

Client	T & M Baillie
Report	M21-1243
Date	20th April 2021
Site	Rosehall Road, Shotts (NS 8636 5937)

### Introduction

The following list of maps and references have been examined in the preparation of this mineral stability risk assessment report.

- NPLE Borehole Database
- O.S. Geological Map NS 85 NE (Solid)
- County Geological Map Lanarkshire 13 NW
- Economic Geology of Central Scotland Area VI
- Coal Commission Sheets Lanark 13
- Abandonment Mine plans of Interest
  - Fortissat: s2086, L. Drumgray 1914
  - Brownrigg: 5757, L. Drumgray 1911
  - Brownrigg: 7243, Gas 1913
  - Currieside: 5545, Shotts Gas 1910
  - Dykehead: s2065, Mid Drumgray, Ball, Virtuewell 1874
  - Hartwoodhill: s2070, Furnace, Gas 1873
  - Hartwoodhill: s2364, Armadale Main, Gas 1900
  - Hillouserigg: s2087, Laigh, Smithy, Ball, Virtuewell
  - Kingshill: s2417, Wilsontown Main 1900
  - Mainbank: s2416, L Drumgray, Gas

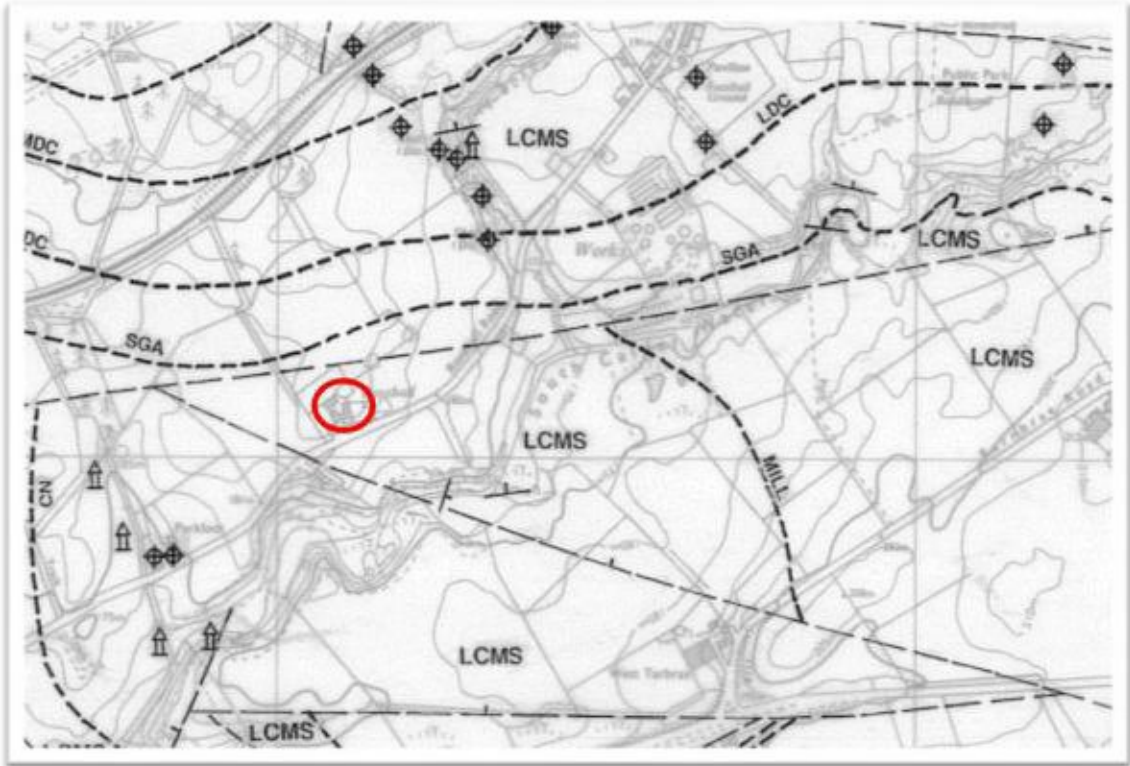
### Geology

The rockhead strata belong to the Lower Productive Coal Measures of the Carboniferous Series which dip down to the east.

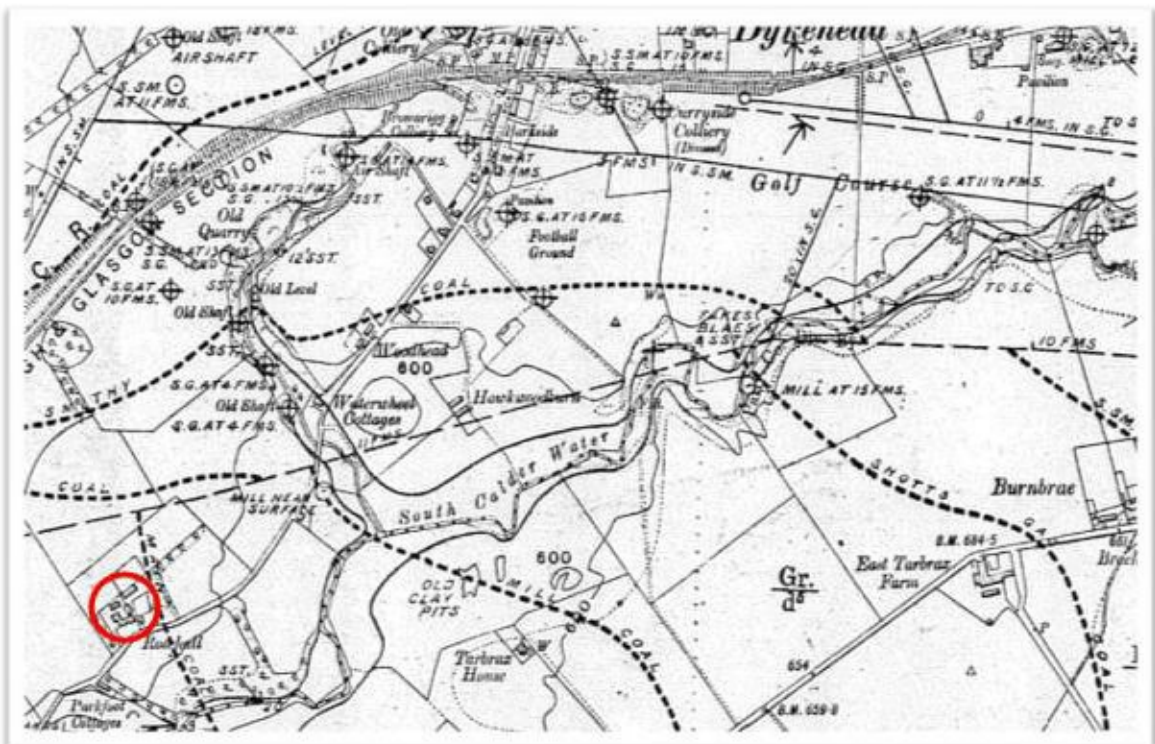
There are several faults around the location, trending northwest to southeast and southwest to northeast. Between these two faults, lies the Mill Coal Seam situated some distance to the east.

### Superficial Deposits

The superficial deposits are likely to consist of a firm / stiff glacial clay which according to the nearby borehole, is thought to be of the order of 6m to 8m in thickness.



Extract from Geological Map



Extract from County Geological Map

## **MINING**

Past mining has taken place in the Shotts Gas Coal on the northside of the fault situated on the north side of the South Calder Water. Old drift mines are noted to be present on the southside of the southern fault line lying to the south of the subject land and have worked the 0.58m thick Colinsburn Coal Seam. The Coal Commission Sheets / Plans show the limited extent of these workings remaining on the south side of the fault line lying to the south of the subject land.

The old Brownrigg, Currieside, Dykehead, Hartwoodhill & Fortissat Pits all lie to the north and on the north side of the Faultline having worked the Drumgray Seams.

We have found no record or indication that the seams lying below the Mill Coal Horizon have been worked in the vicinity of the subject land.

## **CONCLUSIONS**

Our review of the available mining data together with the borehole information leads us to believe that the subject site can be regarded as minerally stable and suitable for the proposed development envisaged.



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