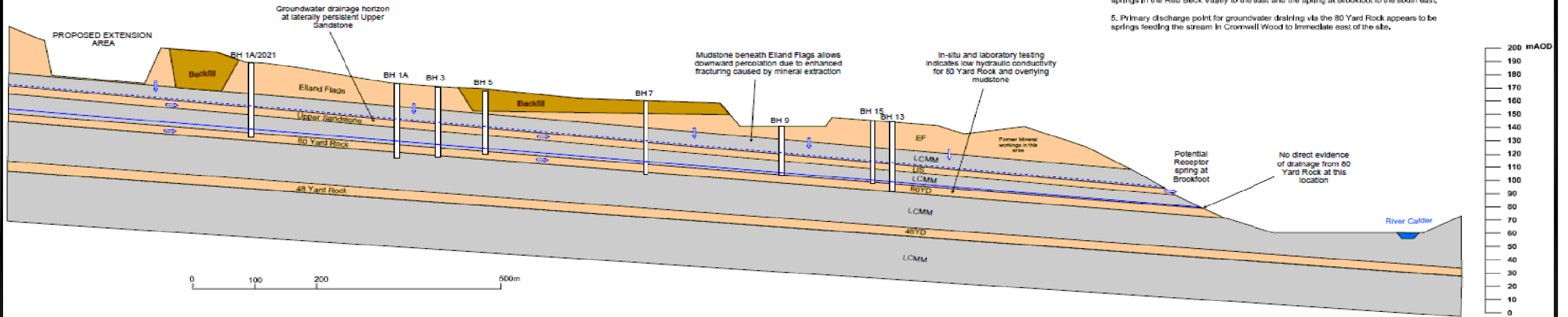


SECTION B - B'
NORTH WEST TO SOUTH EAST



Notes:

1. Groundwater level monitoring indicates that the Sandstone Unit in the mudstone and the underlying 80 Yard Rock both act as separate and hydraulically discrete groundwater drainage pathways.
2. Recharge to the Sandstone Unit occurs vertically via percolation through upper sections of mudstone beneath Elland Flags
3. Recharge to the 80 Yard Rock appears to come from lateral drainage from the north possibly related to minewater draining via deep mins working in former Water Clough Colliery to north of Cromwell Wood.
4. Primary discharge point for groundwater draining via Sandstone Unit appears to be the springs in the Red Beck Valley to the east and the spring at Brookfoot to the south east.
5. Primary discharge point for groundwater draining via the 80 Yard Rock appears to be springs feeding the stream in Cromwell Wood to immediate east of the site.

LOWER COAL MEASURES STRATA

| | |
|------|-----------------|
| EF | Elland Flags |
| LCMM | Mudstone |
| US | Upper Sandstone |
| LCMM | Mudstone |
| 80YD | 80 Yard Rock |
| LCMM | Mudstone |
| 48YD | 48 Yard Rock |
| LCMM | Mudstone |

HYDROLOGY

- Groundwater level in Upper Sandstone
- Groundwater level in 80 Yard Rock
- Groundwater flow direction

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Client:



Drawing No.
ESSD 8

Rev

Project:

PASTURE HOUSE QUARRY
WASTE RECOVERY PERMIT APPLICATION

Project No. 20293

Date: Sept 2021

Plan Title:

HYDROGEOLOGICAL CROSS SECTIONS

Scale: NTS @ A4

Drawn: PS

Chkd: