

Appendix D

BGS Borehole Data

Central L.S. N. West EA
BRITISH GEOLOGICAL SURVEY
RECORD OF SHAFT OR BOREHOLE

76/Kockdale
 6-inch or 1:10 000 Map Registration No.
SD91/109

I.P. WHITTER

Number of Shaft or Borehole: 89/5-1990

Name JACKMAN POLYMERS LTD. STOCKTON STREET,

Village LITTLEBOROUGH County LANCS.

Reference to a fixed point on 1-in or 1:50 000 Map)
SD 985-163. SD9332 1639

For which made COMMERCIAL PURPOSES

Level at shaft relative to O.D. _____ m. If not ground level give O.D. of beginning of shaft _____ m.

J.P. WHITTER (WATER WELL ENG) LTD Date of sinking JAN/FEB 1990

Location LANDGATE IND. EST. WIGAN RD. BRYN. WN4 0BZ Examined by _____



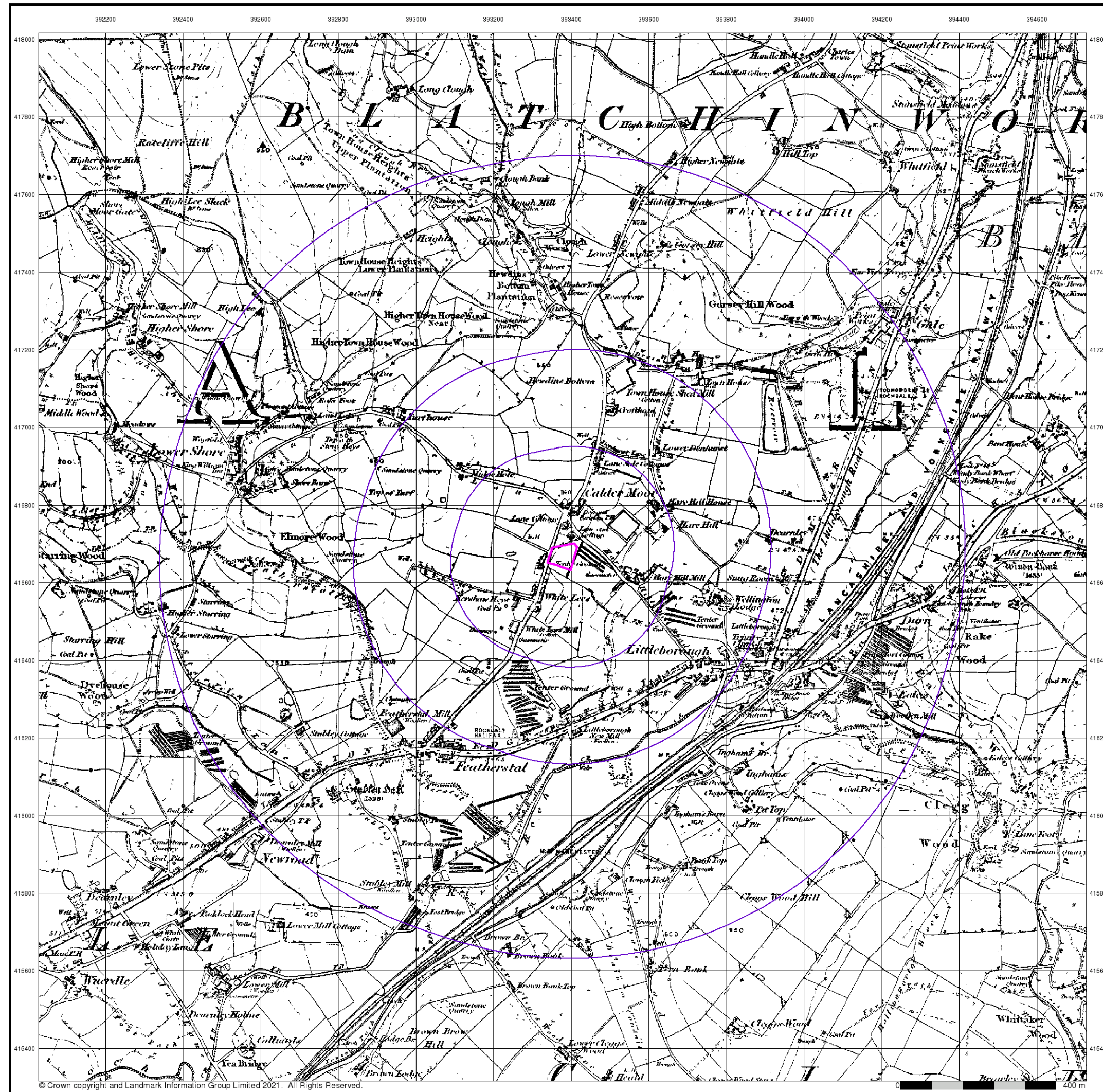
Specimen Numbers and Additional Notes

100 ft OF 6" WELDED STEEL CASING GROUTED INTO POSITION.
 130 ft OF 5" WELDED STEEL CASING GROUTED INTO POSITION.
 REST LEVEL OF WATER. - 1 METER. PUMPING LEVEL - 22 MM.
 FINISHED DEPTH. 250 FT. PUMP INTO. 120 FT.

Geological Classification	Description of Strata	Thickness	Depth	m
		FEET.	FEET.	
Till (undifferentiated)	CLAY	8		2.4
	GRAVEL	6	8	4.3
	SAND	15	14	8.8
Lower Coal Measures	MUDSTONE	44	29	22.2
	SHALE	25	73	29.8
	MINE WORKINGS.	5	98	40.2
	SHALE	22	103	47.0
A. Howard 11/12/97	SANDSTONE	125	125	75.1
			250	
			76-20m	

Appendix E

Historical Mapping



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LK GROUP

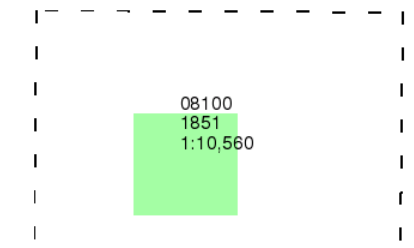
Lancashire And Furness

Published 1851

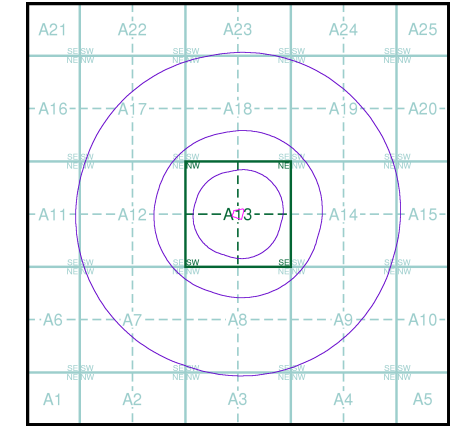
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details	
Order Number:	280322440_1_1
Customer Ref:	LKC 21 1310
National Grid Reference:	393380, 416670
Slice:	A
Site Area (Ha):	0.34
Search Buffer (m):	1000

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