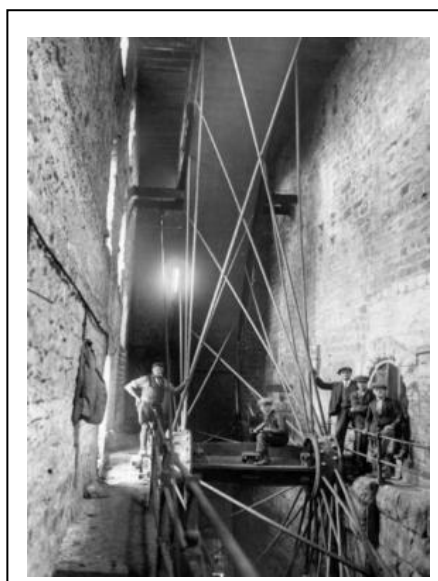


BUILDINGS OF HISTORICAL & ARCHITECTURAL INTEREST SADDLEWORTH LOCAL LIST RECORD

List No.	4-025
Area	DIGGLE 4
Township	SADDLEWORTH
Property Name & Address	Remains of Water Wheel Housing, Diggle New Mill
Grid Ref.	SE 01730 08070
Surveyor	M. Buckley
Photo	M & P Fox 2004



Current Use

Part of Pit Extant

Description of Building: age, style, notable/original features, significant alterations, general state of repair.

Diggle New Mill built by William Broadbent of Harrop Green in 1845-7 with the second largest water wheel in the UK. Wheel top fed by pipe from mill dam behind mill.

Wheel Details: 64ft 8in diameter; 7ft wide; 102 buckets, each 6ft wide, 1½in deep, 3in space between buckets, each holding 36 gallons of water, 37 bolts in each; axle 12ft 9in; wheel 32 segments, 7 bolts in each segment, 6ft 2¾in each segment length, 9ft wide, 3ft pitch; 800 teeth round rim; 64 shrouds, each shroud 6ft 3in long, 3 bolts in each shroud; 64 spokes, 2in diameter; 96 back plates; 7520 bolts in all the wheel. Each revolution occupies 45 seconds. About 190 h.p. Ref: Bernard Barnes Collection, SHS Archives, H/BB/3.

The wheel and water wheel housing had been dismantled by 1971 (Ref: SHSA, H/BB/3) and partially demolished. Only part of housing below axle level now remains.

Interesting features of the surroundings of the building/ its setting?

Original 4 storey Mill and offices now converted to appartments Dam behind extant. which supplied supplied water to the wheel.

Mapping evidence

1854 OS map: *Mapping Saddleworth I*: M. Buckley et al, SHS, 2007

