

320190286P

FLOOD RISK ASSESSMENT

FRONT PORCH / CONSERVATORY at No 82 RIVERSIDE, CLITHEROE.

The porch has been built at the front of the existing dwelling and shares the same ground floor level as the house. There is a garden area to the front of the property with a garage and parking . The garden area is level with the existing carriageway. The property is at the end of a block of 3 no dwellings.

The application site lies to the east of the River Ribble and is within Flood Zone 2 on The Environment Agency Flood Map. The flood defences of Pendle Water have recently been improved.

Enclosed is the information received from the Environment Agency

The current site is defended to 1 in 50 years, however the Environment Agency require protection to 1 in 100 years.

It would be impossible to provide floor levels or generally carry out works that would satisfy this criteria as this is an existing property.

The proposals are to provide flood gates to both the porch door and the main house doors. This will provide some measure of defence to the property.

Flood Zones Map: Riverside, Low Moor, BB7 2NS

Produced: 16 May 2019
Our Ref: CL124309
NGR: SD7294841986

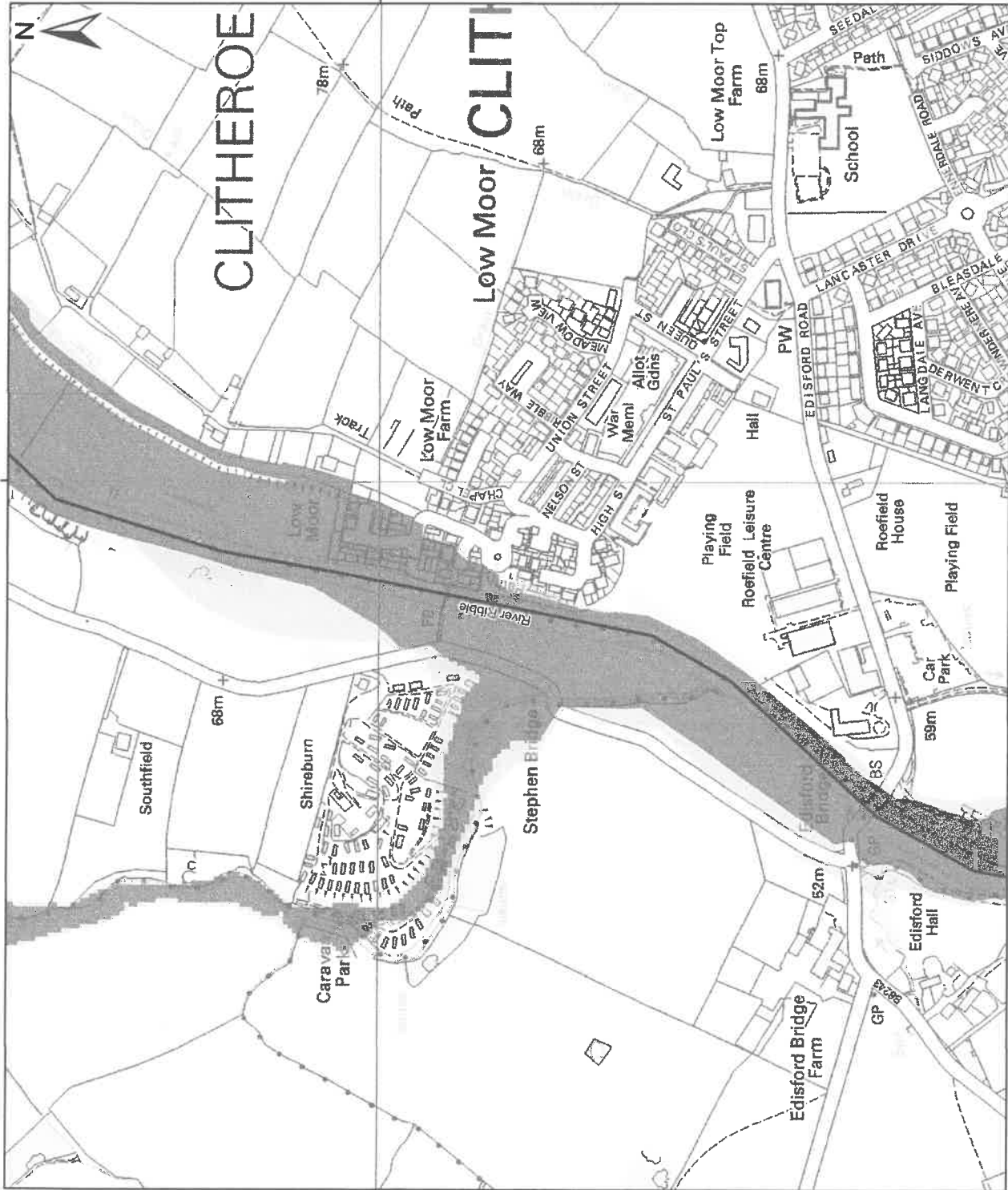
- Key**
-  Main River
 -  Areas Benefiting from Defences
 -  Flood Zone 3
 -  Flood Zone 2

Flood Zone 3 shows the area that could be affected by flooding:

- from the sea with a 0.5% or greater chance of happening each year
- or from a river with a 1% or greater chance of happening each year.

Flood Zone 2 shows the extent of an extreme flood from rivers or the sea with up to a 0.1% chance of occurring each year.

ABDs (Areas Benefiting from Defences) show the area benefiting from defences during a 0.5% tidal, or 1% fluvial flood event.



Modelled water levels with climate change using +20% flow allowances are not suitable for the majority of planning purposes. New climate change allowances can be checked on the following website: www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances.

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Fluvial Flood Level Map: Riverside, Low Moor, BB7 2NS

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Key

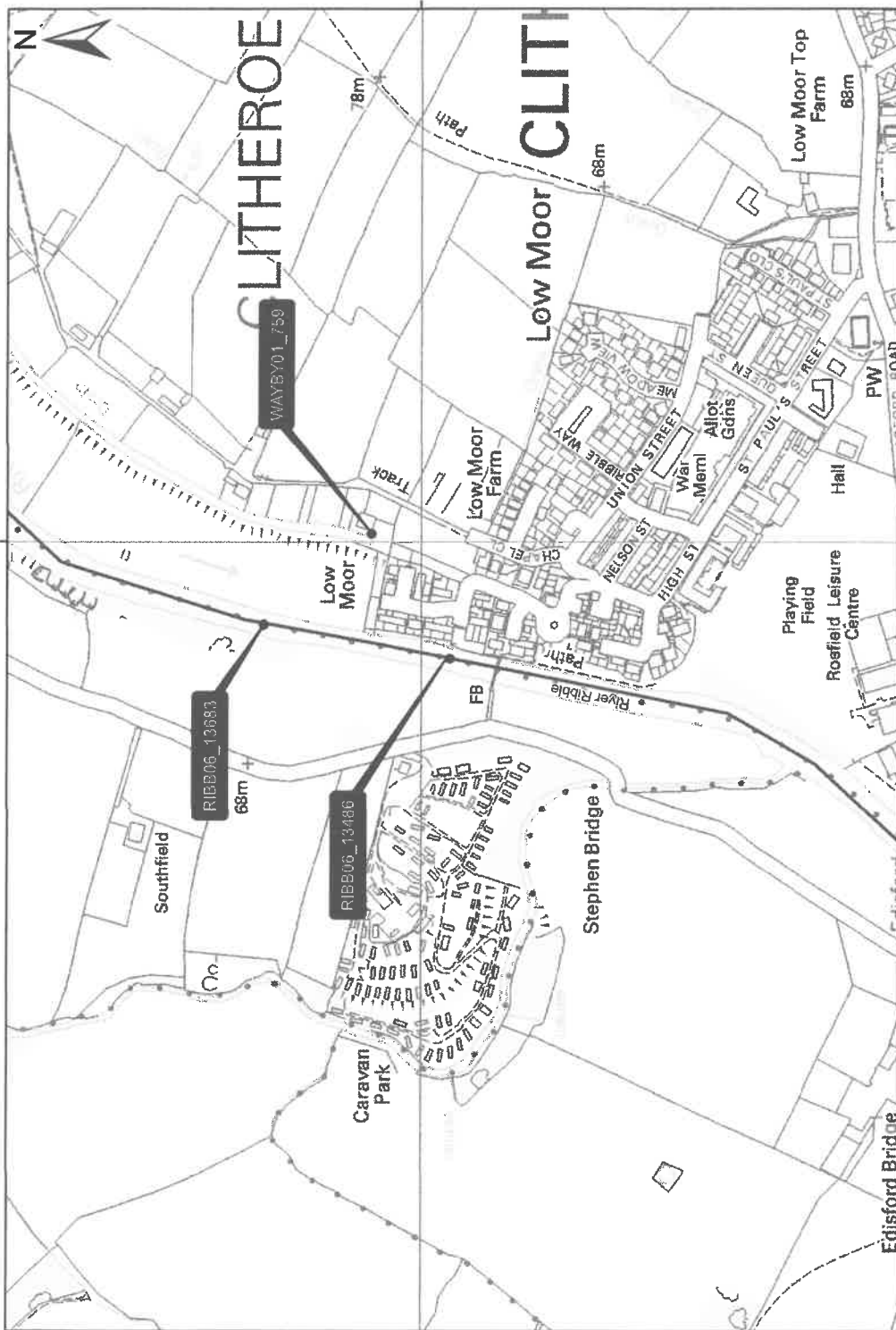
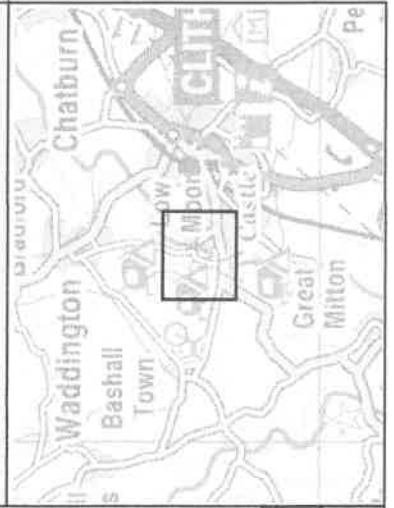


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Flood Flow ($m^3 s^{-1}$) and Level (mAAD) data for a range of annual probability of flooding

Node Point	0.1%			1% +Climate Change (20%)			1.0%			4.0%		
	Defended Level	Flow	Undefended Level	Defended Level	Flow	Undefended Level	Defended Level	Flow	Undefended Level	Defended Level	Flow	Undefended Level
WAYS01 759	54.23	16.03	54.22	14.74	12.84	54.19	10.32	54.16	10.33	54.02	5.23	54.02
RIBB06 13683	53.60	617.74	53.33	520.14	52.88	524.76	52.61	435.74	52.17	355.15	52.30	358.57
RIBB06 13486	52.73	633.96	52.33	535.53	52.22	606.83	51.94	446.06	51.76	446.07	51.41	360.39

Level data in mAAD (metres above ordnance datum). Flow data in m^3 per second

Data taken from Settle & Low Moor SFRM 2006



373000

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Historical Flooding: Riverside, Low Moor, BB7 2NS

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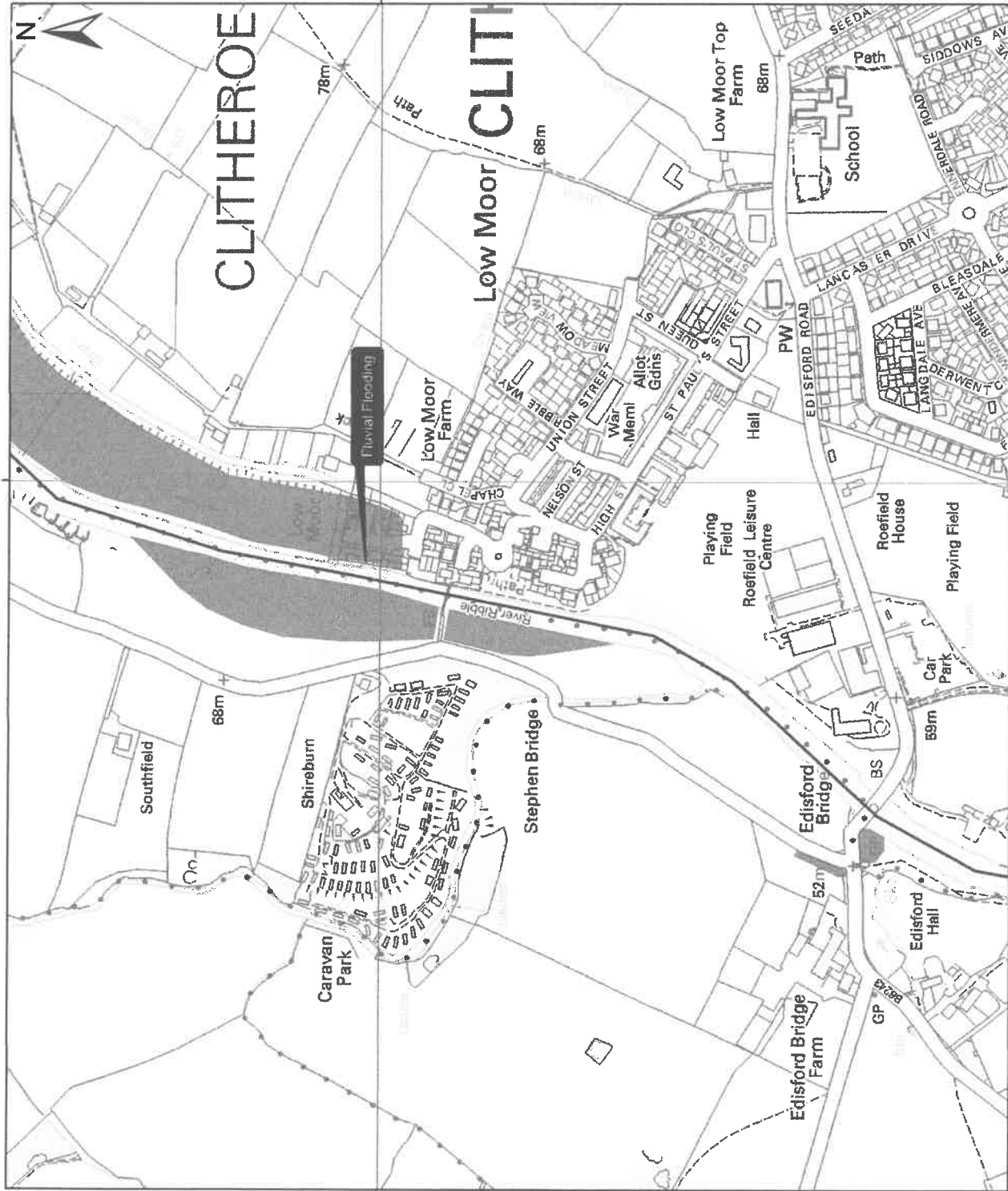
Key
 Main River
 31/01/1995 flooding

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CL124309 82 Riverside, Clitheroe

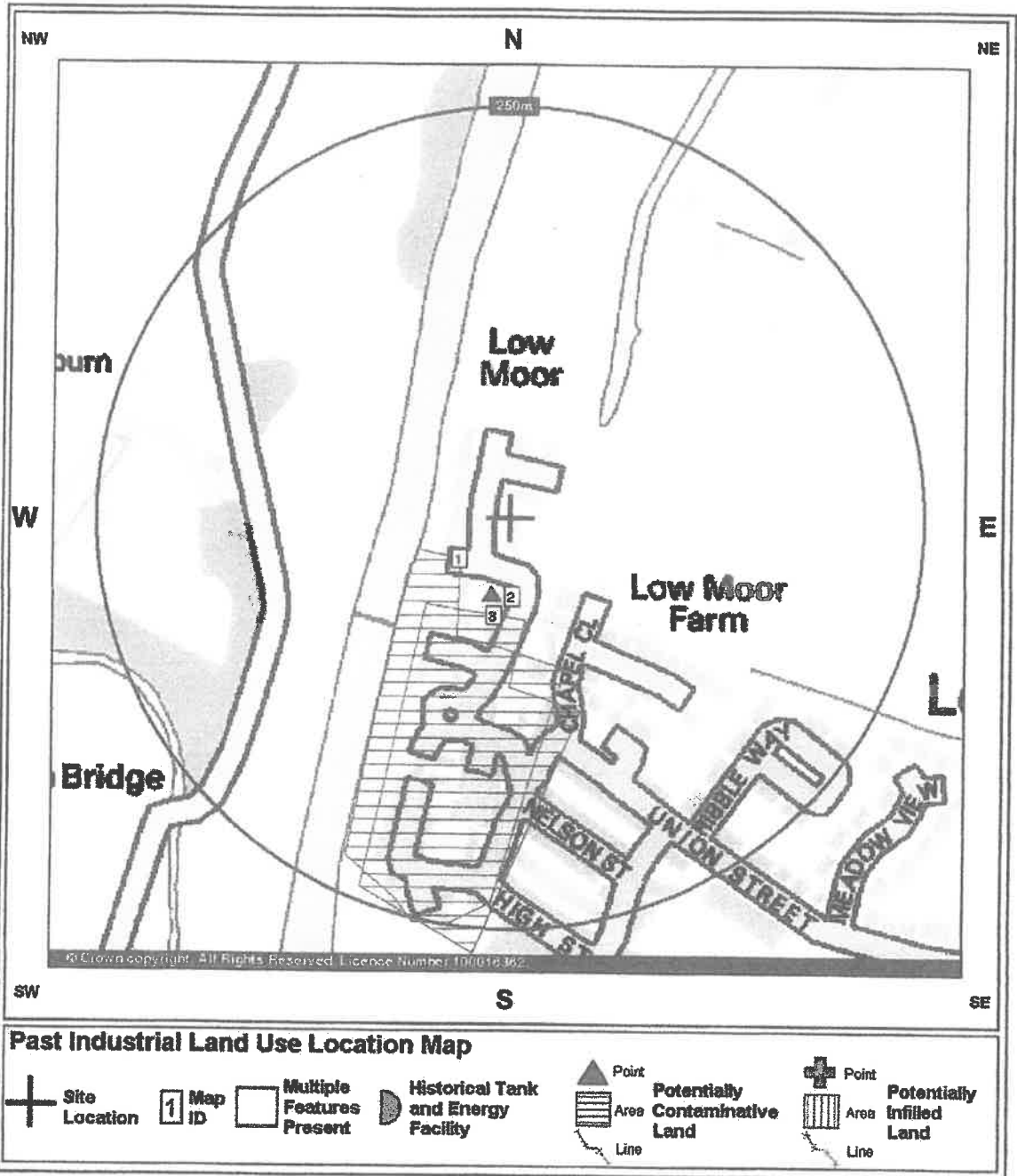


April 17, 2019

- Structures
- CARTO_TEXT
- ▬ Channels
- ⊥ Defences

Section B - Site History

B.1 - Past Industrial Land Use - Records within 0 - 250m

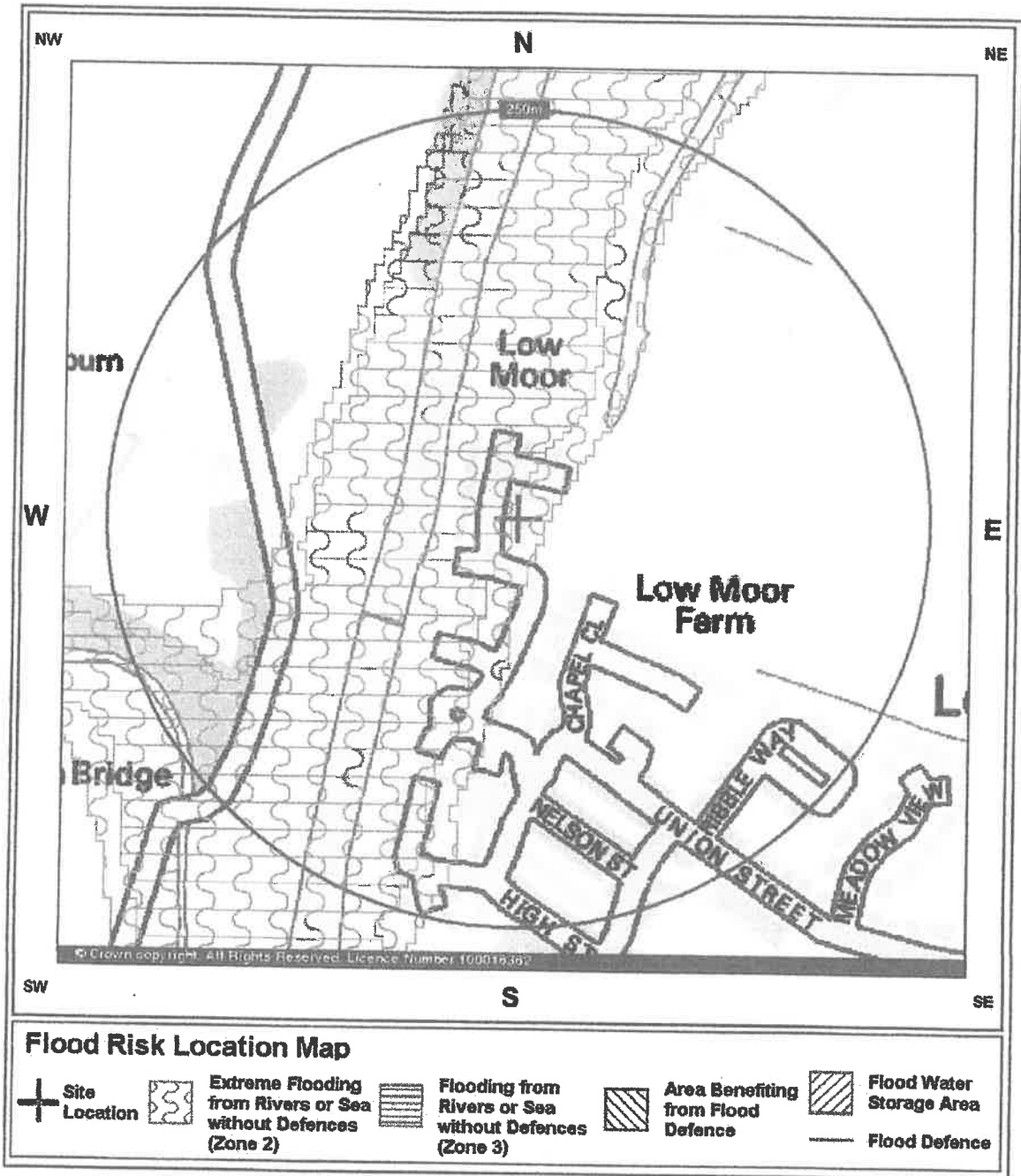


Potentially Contaminative Industrial Uses (Past Land Use)

Map ID	1
Direction	South-West
Distance	39m
Use:	Factory or works - use not specified
Date of Mapping:	1914-1955

Section D - Natural Perils

D.1 - Flooding - Records within 0 - 250m



Site Location	82 Riverside, Clitheroe	CL124309
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Fluvial Defences

Asset Ref.	National Grid Reference	Asset Type	Protection Type	Location	Maintained By	Design Standard (Return Period)	Overall Condition Grade (Excellent 1- 5 Very Poor)	Effective Crest Level (m)		E.C.I Data Quality (Reliable 1-4 Unreliable)	Length (m)	Height (m)
								UCL (mAOD)	DCL (mAOD)			
01210RIB80601131	SD 72992 42081	Embankment	Fluvial	Low Moor Farm	Unknown	50	3	52.29	52.51	2	89.9	-
01210RIB80601130	SD 72907 42058	Wall	Fluvial	Rear of Properties off Riverside	Unknown	50	3	52.49	52.42	1	98.4	-
01210RIB80601129	SD 72895 41965	Embankment	Fluvial	Rear of Properties off Riverside	Unknown	50	2	52.42	52.30	2	85.9	-

The Environmental Permitting (England and Wales) Regulations 2016 require a permit to be obtained for any activities which will take place:

- on or within 8 metres of a flood defence structure or culvert (16 metres if tidal)
- on or within 16 metres of a sea defence

Site Location	82 Riverside, Clitheroe	CL124309
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Fluvial Structures

Asset Ref.	National Grid Reference	Asset Type	Protection Type	Location	Maintained By	Design Standard (Return Period)	Overall Condition Grade (Excellent 1- 5 Very Poor)	Length (m)	Height (m)
01210RIB0601L29001	SD 72891 41965	Outfall	Fluvial	Rear of Properties off Riverside	Private	-	2	-	-



Jargon Buster: 'Flood Barriers'