

This report is being issued to create renewed awareness of details of the long standing problem, a holistic solution for which is still eluding the various agencies. A recent letter to Birkrigg owner K.Leveredge from Ben Wallace advised by LCC position only reiterates the vulnerability of the low laying area (see Flood Risk Map attached). Flood Management legislation mandates Section 19 reports by LCC (The Lead Flood Authority), which whilst noting this flooding have had little effect. The following FLAG report suggests areas and actions that we believe should be considered to mitigate this vulnerability and alleviate the hardship caused.

**Location: Area View**



**Factors causing flooding:**

- 1-Field drainage and filling in of ditch (Field Owner)
- 2-Carr Lane / A588 blocked gullies (LCC)
- 3-Carr Lane / A588 blocked underground pipes (UU)
- 4-Carr Lane / A588 lack of traffic management during flood event, forces water waves onto properties (LCC)
- 5-Drainage ditch restricted by unapproved piping by property owner (Queensland)
- 6-‘Wardleys Pool’ & ‘Kiln Lane’ watercourses lack of desilting (property owner? / EA)
- 7-‘Wardleys Pool’ flap valve restricts flood flows at high tides(EA)

**History of action taken:**

- 1-2012 Area flooded and has been with the Making Space for Water and Flood Forum until now.
- 2-2014 New road gully installed draining to piped culvert. The gully gets regularly blocked by silt washing from the higher field, and the piped culvert flows are insufficient
- 3-2015 Another Road gully considerably to the north near Carlyns ( 5 properties from Coppins) installed.
- 4-2018 LCC cleaned gullies and will check after next rain
- 5-2020.LCC install new surface water drain pipe providing connection to northern outfall. This proved unsuccessful in alleviating flooding.
- 6-2021 EA recognises that the unconsented piped ditch (noted in 2013) needs their intervention with the landowner.

**FLAG report, comment and request for action:**

**General**

The plan used above from 2013 notes in blue (ref E) the Queensland pipe culverted and standing waters. The same conditions still apply and occur at numerous property flooding events, which have happened since.

Our report covers:

- a) Flow into the area from the field
- b) Flow across the road
- c) Flow into the properties
- d) Flow from the properties
- e) Flow away from the area

**a)-Flow into the area from the field : (LCC,WBC)**

The surface water from the field (ref A) used to flow into a water course which has is now filled consequently the water flows onto the A588 causing flooding with the inability of the road drainage to cope.

Can LCC consider re-establishment of the watercourse and introduction of a culvert/pipe under the road.  
The field to the north (ref F) uses this solution.  
Can WBC or LCC advise if there are specific farming techniques that can be recommended or mandated to reduce run-off to the A588?  
Does LCC have powers and or road traffic responsibilities that can be used mandate actions to prevent the landowner flooding the road and increasing accident risks?

**b)-Flow across the road (WBC, LCC, UU)**

LCC have installed a new pipe in 2020, and also new road gully's in the past, however these soon silt up with the water flow from the field (ref A) and the piped culvert (ref E) upon which they rely, easily floods.  
As a FLAG we have requested Information with regards surface water drains and foul drains in this area.  
Can WBC, LCC or UU supply this for our information?  
The current system of gully cleaning/unblocking relies on the public reporting system. Does the LCC maintain a list/register of gullies that require lots of cleaning because of silt, and this information being used to target areas for increased scrutiny and preventative action?

**c)-Flow into the properties (WBC, LCC)**

The A588 road level has risen with various constructions and resurfacing reducing kerb heights  
Can LCC respond to the suggestions that have been made with regards drainage kerbs (beany blocks) on the West side of A588 in front of the vulnerable properties (ref D) preventing/reducing ingress into the properties? Of course the successful operation of this would require the Queensland culvert (ref E) to be flowing sufficiently  
Can WBC, LCC introduce/install speed control measures so as to prevent 'waves' of water being created by inconsiderate motorist. These could be permanent that could be switched on or warning signs that can be left with residents with permission to deploy. The flooding is greatly exacerbated by bow waves of water created by traffic.

**d)-Flow away from the properties (EA, LCC)**

Removal of the unapproved pipe would assist water flows. This was surveyed and noted in 2013 without action.  
The latest minutes of the MSFW meeting notes an action for EA , can they advise when they will contact the owner and what the course of action may be requested. If he is to be requested to remove the pipes

**e)-Flow away from the area (EA)**

Notwithstanding the piped culvert water still stands as indicated in 2013 (ref E)  
The open watercourse (ref H) 'Kiln Lane Pool' - EA id 348633, drains the local area into 'Wardleys Pool' EA id 376083.  
MSFW minutes of Mar/2014 indicate a silt survey was carried out by EA. Can the EA confirm when the next survey is planned, and what can be done with regards to improving drainage flows for the area.

**FLOOD RISK MAP EA**

