

Mickle Trafford Main Report Details

Project:	Storm Christoph Section 19 Main Report		
Area:	Mickle Trafford		
Date:	10/08/22	Project No.:	5150735

Document history

Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
1.0	Draft for RMA Comment	TS	SF	EJG	EJG	10/08/22
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Client signoff

Client	Cheshire West and Chester Council
Project	Storm Christoph Section 19 Main Report
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Mickle Trafford

This Mickle Trafford specific Main Report should be read in conjunction with the Section 19 Flood Investigation – Main Report (January 2021 Storm Christoph Flooding Event).

1. Background

Mickle Trafford is a village located 3.5 miles northeast of Chester city centre, surrounded by farmland. Warrington Road (A56) runs north - south through the village, the Chester Warrington railway line passes to the east and the River Gowy flows just northeast of the village.

Topography in this area falls gently away from Mickle Trafford village centre towards the River Gowy to the northeast. Parts of Mickle Trafford are in the 1 in 30-year surface water flood risk zone (Appendix I).

The flood affected properties are located on Warrington Road, north of the village centre. A 100mm private drain runs from the internally affected property to a 225mm drain running along the rear of the property on private land. The exact outlet of this pipe is unknown, but it is thought it may be the culvert which runs east-west to Warrington Road main drain. There are also open ditches, located on the same private land, that run to the culvert.

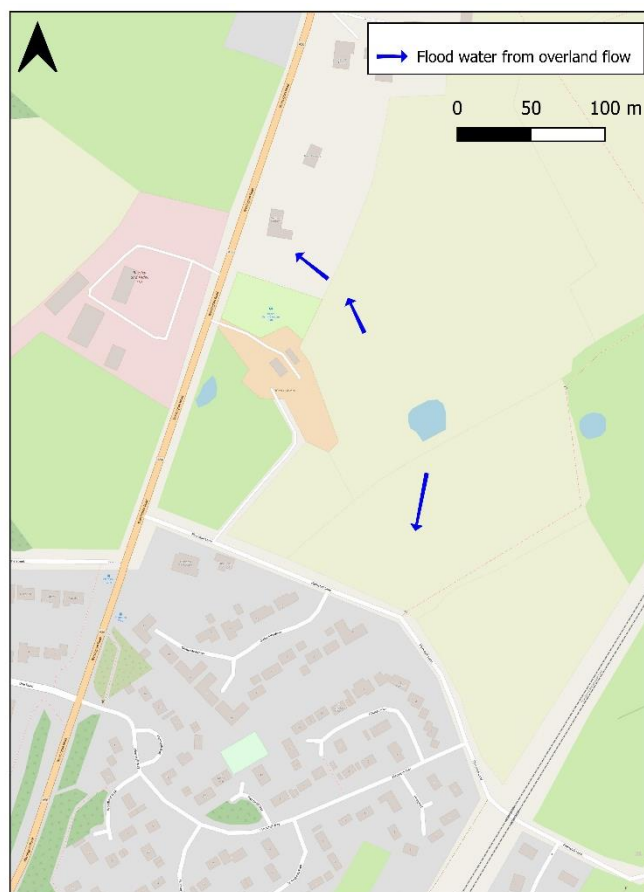
2. Flood Review

The significant rainfall from Storm Christoph inundated the fields behind the affected properties, fully saturating the ground. Surface water from the fields south of Warrington Road flowed into the property gardens and then entered one property to a depth of up to 100mm. It is reported that water was unable to drain away through open ditches or the culvert that leads to the main Warrington Road drain, this particular route is on overgrown, private land. Additionally, the 225mm drain, also located in private land, is in a poor state of repair and suffers from root ingress.

The route and condition of the surface water drainage and road drainage on Plemstall Lane and the area just north and south of the railway embankment is not documented; road flooding here indicates that potential blockages or capacity issues exist. Water was observed ponding on roads nearby and there were reports of blocked road drainage.

Flooding was also reported at Bridgend but at this time no further information is available.

Figure 1 shows details the flooding, developed in consultation with Cheshire West and Chester Council (CWaC), as Lead Local Flood Authority (LLFA), and affected property owners



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Figure 1 - Flood Overview

Key statistics of the Storm Christoph Flooding in Mickle Trafford are summarised in Table 1. A detailed timeline of the flood event can be found in Appendix II.

Table 1 - Flood Impact Summary

Residential properties affected:	Commercial premises affected:	Number of properties evacuated:	Number of properties flooded:	Number of domestic properties flooded:	Number of commercial premises flooded:	Comment
2	0	0	1	1	0	As reported to CWaC prior to publishing

Table 2 provides a brief summary of the flood event, impact and response in Mickle Trafford.

Table 2 – Mickle Trafford Flooding

Mickle Trafford	
Date	<ul style="list-style-type: none"> 20th January 2021
Affected Roads	<ul style="list-style-type: none"> Bridgend, Picton Gorse Lane, Warrington Road, Station Lane, School Lane, Ince Lane, Plemstall Lane
Flood Alert / warning issued?	<ul style="list-style-type: none"> The area is not covered by a Flood Warning or Flood Alert
Flooding Impacts and Observations	<ul style="list-style-type: none"> Property damage Additional stress and mental anguish on the community over such an event happening again
Summary of Flooding Incident Response During Event	<ul style="list-style-type: none"> Sandbags provided

Photographs that illustrate the extents of the flood event in Mickle Trafford can be seen in Figure 2 and Figure 3.



Figure 2 - Warrington Road. Afternoon 20/01/2021

Source: Resident



Figure 3 - Warrington Road. Afternoon 20/01/2021

Source: Resident

The following actions were undertaken prior to completion of the interim report:

- CWaC clearance of drains and gullies on Warrington Road and Plemstall Lane.
- Ditch to rear of property south of Warrington Road partially cleared by adjacent landowner.
- Mickle Trafford Parish Council have prepared an interim report.
- Meeting on site with affected residents 1st July 2021 with CWaC, as LLFA, and Parish Council.
- CWaC to assist the Parish Council in producing a Community Resilience plan if not already done so.

3. RMA Response

This section outlines the RMA response to the flood event at Mickle Trafford and identifies areas for improvement of flood risk. Consultations have been undertaken with the participating RMAs, local residents and business owners to inform this assessment.

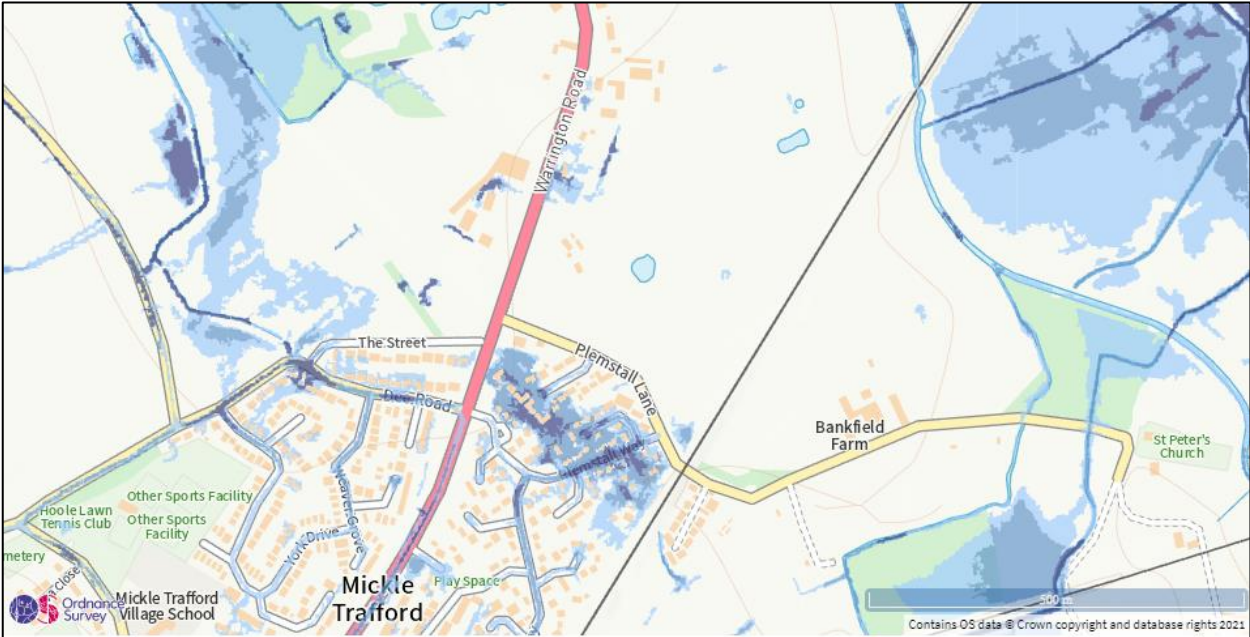
- CWaC, as LLFA, has contacted landowners of properties either side of the ditch to the rear of the affected properties and served notice, informing them of their riparian responsibilities for the maintenance of the ditch.
- CWaC, as LLFA, has contacted landowners of the properties either side of the culvert just off Warrington Road to the north of the affected property and served notice, informing them of their riparian responsibilities for maintenance of the culvert.
- CWaC, as LLFA, has contacted landowners either side of the culvert behind 'The Cedars' to the south of the railway embankment and served notice, informing them of their riparian responsibility for maintenance of the culvert.
- CWaC, as LLFA, continue to investigate the route of the 225mm running to the rear of the property on Warrington Road and subsequently inspect and repair or cleanse
- CWaC, as LLFA, and the Parish Council have started to work collaboratively to find solutions for ongoing flood issues with the village.
- CWaC, as LLFA, has made contact with the landowners of 'The Willows' and 'Meadow Farm' and served notice; informing them of their riparian responsibilities for the maintenance of their land drains.
- CWaC, as LLFA, continue extensive investigations and cleansing of road drainage system and on affected roads.
- The FloodHub has been promoted at several engagement events and at site visits with affected residents. A link is also included from the Flood pages of the CWaC website.

4. Recommended Actions

The following actions are recommended:

- Upon successful identification of the 225mm drain, undertake a condition survey and necessary cleansing activity.
- Complete investigation into flood risk and, if appropriate, progress development of solution.
- Support affected residents explore property protection measures.

Appendix I – Map



Extent of flooding from surface water

● High ● Medium ● Low ○ Very low

Source: EA

Appendix II – Timeline

Time	Mickle Trafford
20 th Jan afternoon	Water began to enter the rear of the properties from the field behind.
20 th Jan 15:00	Water reached knee height just outside the property.