

Marta Wolska

From: Flood Risk Management <floodriskmanagement@manchester.gov.uk>
Sent: 17 August 2022 10:27
To: Andy Losty
Cc: Marta Wolska
Subject: RE: Hammerstone roof area, proposed flow rates

Hi Andy,

Apologies for the delay, I have just come back from 2 weeks of annual leave.

Yes, I can confirm that the below total proposed flow rates to the ordinary watercourse are considered acceptable (new areas discharging to the culvert at Qbar and existing areas being reduced by 50% and restricted to the 1 in 30 year event).

Thanks,

Oliver

Oliver Timmins
Engineer (Flood Risk Management)
Mobile: 07814082200
Email: oliver.timmins@manchester.gov.uk

Lead Local Flood Authority
Highways
Growth & Development and Neighbourhoods Directorate
Manchester City Council
PO Box 532 Town Hall
Manchester
M60 2LA

Web: <http://www.manchester.gov.uk>

From: Andy Losty <Andy.Losty@curtins.com>
Sent: 02 August 2022 10:14
To: Flood Risk Management <floodriskmanagement@manchester.gov.uk>
Cc: Marta Wolska <marta.wolska@curtins.com>
Subject: RE: Hammerstone roof area, proposed flow rates

Oliver

Based on your comments below regarding the QBar rate, please see updated proposed drainage flows below:

BUILDING AREA	AREA m2	FLOW l/s							
		GREENFIELD			50%REDUCTION RATE			E	
		1 IN 1	1 IN 30	1 IN 100	1 IN 1	1 IN 30	1 IN 100	1 IN 1	1
Area 1A&B	2603	N/A			5.5	13	17	11	
AREA 2	6420	5.1	5.1	5.1	N/A				
AREA 3	1413				N/A				
TOTAL PROPOSED FLOWS									
total area	10436	10.6	18.1	22.1					

Based on Marta's e-mail below, restricting to the 1:30 year storm rate, this gives a max discharge rate of 18.1 l/s into the watercourse.

Greenfield runoff calculations attached for information.

We would be grateful if you could confirm that this is acceptable.

Regards

Andy Losty Project Engineer

Curtins

T. 0161 236 2394 | andy.losty@curtins.com

From: Flood Risk Management <floodriskmanagement@manchester.gov.uk>

Sent: 28 July 2022 12:22

To: Marta Wolska <marta.wolska@curtins.com>

Cc: Andy Losty <Andy.Losty@curtins.com>

Subject: RE: Hammerstone roof area, proposed flow rates

Hi Marta,

The approach of diverting the roof areas to the ordinary watercourse culvert would be considered appropriate.

However, we would request that new connections to ordinary watercourses are restricted to Qbar for all events. 50% reduction on brownfield rates of existing connections (only when the site is classed as brownfield) is still considered appropriate.

Thanks,

Oliver

Oliver Timmins

Engineer (Flood Risk Management)

Mobile: 07814082200

Email: oliver.timmins@manchester.gov.uk

Lead Local Flood Authority

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Growth & Development and Neighbourhoods Directorate

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From: Marta Wolska <marta.wolska@curtins.com>

Sent: 23 July 2022 11:52

To: Oliver Timmins <oliver.timmins@manchester.gov.uk>; Flood Risk Management

<floodriskmanagement@manchester.gov.uk>

Cc: Andy Losty <Andy.Losty@curtins.com>

Subject: Hammerstone roof area, proposed flow rates

Hi Oliver

As discussed. I would like to agree on the flow rate for Hammerstone from the existing building roof area.

As per attached 92506 indicates that

- the majority of the roof area labelled A2 surface water was discharging to the south public sewer,

- A3 discharging to public sewer or watercourse, CCTV was not carried out
- Area1 discharging to northern watercourse

The client has decided that the whole building will discharge to the northern watercourse through the rainwater harvesting tank

- 50% reduction of surface water flow rates from roof area (Area 1A&B) which previously discharged to northern watercourse
- greenfield rates from roof areaA2&A3

BUILDING AREA	AREA m2	GREENFIELD		
		1 IN 1	1 IN 30	1 IN 100
Area 1A&B	2603	N/A		
AREA 2	6420	4	8.6	10.55
AREA 3	1413			
TOTAL PROPOSED FLOWS				
total area	10436	9.5	21.6	27.55

It is proposed to limit surface water discharge rate from the tank to 21.6 l/s for all storm events as for smaller storm events the water will be retained in rainwater harvesting tank and used on site.

Substation will discharge as existing

Could you please confirm that would be acceptable

Marta Wolska Senior Engineer

Curtins

T. 0161 236 2394 | marta.wolska@curtins.com

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