Appendix C Environment Agency’s Data and Information

From: **GMMC Info Requests** InfoRequests.GMMC@environment-agency.gov.uk
Subject: GMMC243272AB Response attached from the Environment Agency
Date: 14 December 2021 at 10:12
To: ukfloodrisk@gmail.com

GR

Dear Sohan,

Re: 93 Victoria Road, Old Moat, Manchester

Thank you for your enquiry which was received on 1/12/21.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

I enclose the data requested.

We have no records of flooding affecting the site. However, this does not mean flooding has not occurred in the past or that it will not flood in future. We recommend that you also contact United Utilities and Manchester Council who may hold additional information (the former especially in relation to sewer flooding).

There are no flood defences in the vicinity of the site.

Here are some additional links that may be of use:
https://www.gov.uk/guidance/flood-risk-assessment-local-planning-authorities
https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances

Please refer to the Open Government Licence which explains the permitted use of this information.

Please get in touch if you have any further queries or contact us within two months if you'd like us to review the information we have sent.

Kind regards,

Anne Ball
Customer and Engagement Officer
Greater Manchester, Merseyside and Cheshire
Email: Inforequests.gmmc@environment-agency.gov.uk

From: UK Flood Risk [mailto:ukfloodrisk@gmail.com]
Sent: 01 December 2021 23:43
To: Enquiries, Unit <enquiries@environment-agency.gov.uk>
Subject: 211202/jf05 Request for Product 4 Flood Maps and Modelling data 93 Victoria Road, Old Moat, Manchester

Dear Sir/Madam

Re: Request for Product 4 Flood Maps and Modelling data

I'm working as a Flood Risk Consultant for this site. On behalf of the clients I kindly request you to provide me the most up-to-date **Product 4 flood maps & Modelling data** for the following site:

93 Victoria Road, Old Moat, Manchester M14 6BP

A Site Location Map with approximate boundary lines is attached for your reference. Please could you provide me the following information:

- Information on historic flood events and flood outlines if available around the site,
- Flood depths/water levels and velocity data at the site for a range of events,
- Flood Extent maps (fluvial/tidal),
- Information on flood defences if present,
- Modelled flood maps and flood extents for a range of events including the 1 in 20 year, 1 in 100 year, 1 in 200 year and 1 in 1000 year events,
- Flood depths/levels from breaching and overtopping scenario if available,
- Modelled flows and water levels for a range of events including different scenarios of climate change,
- Flood Hazard Mapping if available,
- Surface water flooding issues and flood maps,
- Reservoir flood maps,
- Any flood-related information that would be useful for the flood risk assessment of this site.

I look forward to hearing from you in due course.

Yours Sincerely

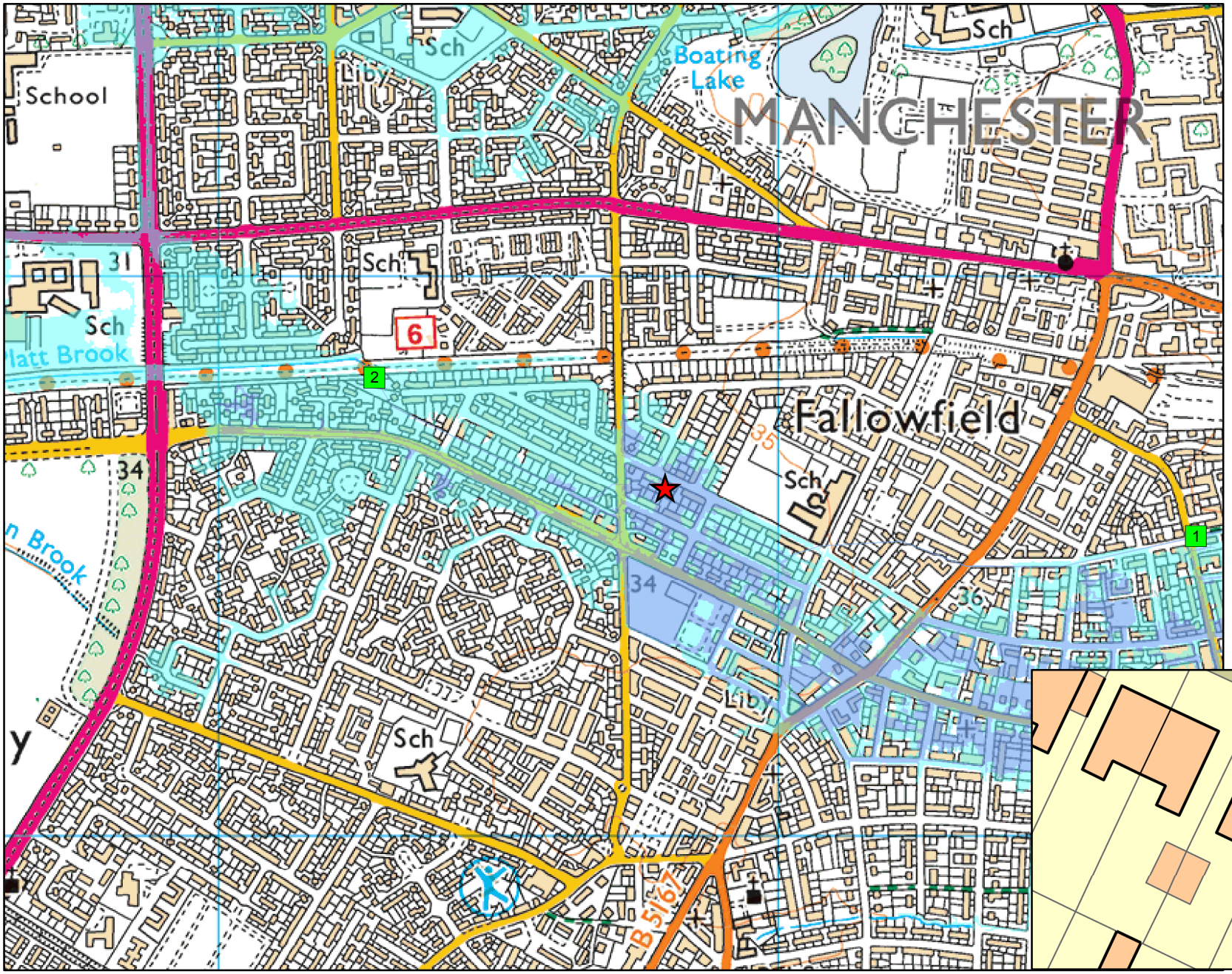
Sohan

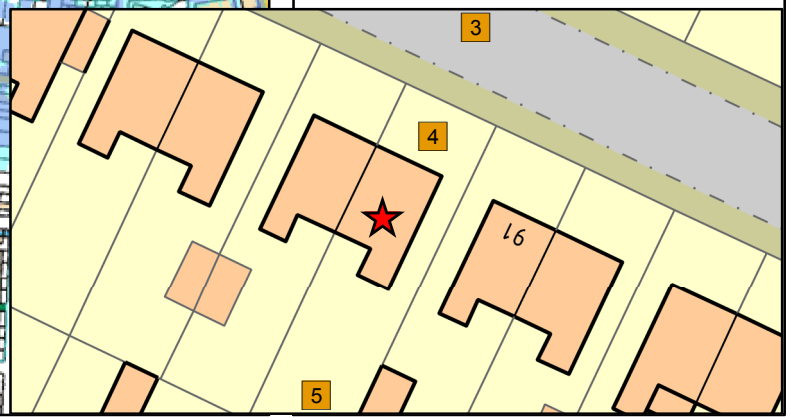
Sohan Ghimire
Flood Risk Consultant

UK Flood Risk
55 Shepherds Lane
Dartford DA1 2NL

t: 020 3797 6380 m: 07411 924733
e: ukfloodrisk@gmail.com

Detailed Flood Map centred on 93 Victoria Road, Old Moat, Manchester, M14 6BP.
Created on 07/12/2021 [GMMC243272AB]





Environment Agency

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Legend

- Site Location
- Model Measurements
- 2D Levels
- Main River
- Flood Zone 3
- Flood Zone 2

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Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 08708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

					Undefended																Defended																		
Map Reference	Model Node Reference	Easting	Northing	Data	50 % AEP (1 in 2 year)	20 % AEP (1 in 5 year)	10 % AEP (1 in 10 year)	5 % AEP (1 in 20 year)	4 % AEP (1 in 25 year)	2 % AEP (1 in 50 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 30% Increase in flow	1 % AEP (1 in 100 year) + 35% Increase in flow	1 % AEP (1 in 100 year) + 70% Increase in flow	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)	0.1 % AEP (1 in 1000 year) + 30% Increase in flow	50 % AEP (1 in 2 year)	20 % AEP (1 in 5 year)	10 % AEP (1 in 10 year)	5 % AEP (1 in 20 year)	4 % AEP (1 in 25 year)	2 % AEP (1 in 50 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 30% Increase in flow	1 % AEP (1 in 100 year) + 35% Increase in flow	1 % AEP (1 in 100 year) + 70% Increase in flow	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)	0.1 % AEP (1 in 1000 year) + 30% Increase in flow
1	AA013_0230_CDW01_1501u	385748	393537	**Modelled Water Level (m-aoDN)**	37.83	38.02	38.43	38.45	38.45	38.47	38.47	38.47	38.49	38.50	38.53	38.50	38.56	38.61	37.83	38.02	38.43	38.45	38.45	38.47	38.47	38.47	38.49	38.50	38.53	38.49	38.56	38.61
				Modelled Flow (cumecs)	3.022	3.69	4.27	4.37	4.38	4.40	4.41	4.42	4.44	4.44	4.44	4.43	4.47	4.49	3.022	3.69	4.27	4.37	4.38	4.40	4.41	4.42	4.44	4.44	4.44	4.43	4.47	4.49
2	AA013_0230_CDW01_3025u	384280	393815	**Modelled Water Level (m-aoDN)**	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.89	31.91	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.89	31.91
				Modelled Flow (cumecs)	3.02	3.68	3.96	3.96	3.96	3.96	3.96	3.96	3.97	3.97	3.97	3.97	4.24	4.76	3.02	3.68	3.96	3.96	3.96	3.96	3.96	3.96	3.97	3.97	3.97	3.97	4.24	4.76

					Undefended																																		
Map Reference	Model Node Reference	Easting	Northing	Data	2 % AEP (1 in 50 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 30% Increase in flow	1 % AEP (1 in 100 year) + 35% Increase in flow	1 % AEP (1 in 100 year) + 70% Increase in flow	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)	0.1 % AEP (1 in 1000 year) + 30% Increase in flow	2 % AEP (1 in 50 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 30% Increase in flow	1 % AEP (1 in 100 year) + 35% Increase in flow	1 % AEP (1 in 100 year) + 70% Increase in flow	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)	0.1 % AEP (1 in 1000 year) + 30% Increase in flow
3	2D Level	384950	393619	**Modelled Water Level (m-aoDN)**	33.89	33.93	33.94	34.06	34.07	34.12	34.31	34.21	34.26	33.87	33.91	33.93	34.05	34.06	34.12	33.99	34.21	34.27
				Velocity	0.01	0.03	0.04	0.08	0.09	0.14	0.25	0.25	0.31	0.01	0.02	0.03	0.06	0.08	0.13	0.05	0.25	0.33
4		384963	393596	**Modelled Water Level (m-aoDN)**	33.89	33.93	33.94	34.06	34.07	34.12	34.31	34.21	34.26	33.87	33.91	33.93	34.05	34.06	34.12	33.99	34.21	34.27
				Velocity	0.01	0.02	0.01	0.03	0.04	0.06	0.02	0.10	0.16	0.01	0.03	0.01	0.04	0.04	0.07	0.01	0.10	0.16
5		384985	393581	**Modelled Water Level (m-aoDN)**	33.89	33.93	33.94	34.06	34.07	34.12	34.31	34.21	34.27	33.87	33.91	33.93	34.05	34.06	34.12	33.99	34.22	34.27
				Velocity	0.07	0.14	0.17	0.25	0.26	0.39	0.18	0.64	0.76	0.04	0.09	0.12	0.26	0.21	0.37	0.23	0.69	0.79

Model data taken from Cringle Book 2017 Study

AEP - Annual Exceedance Probability

m-aoDN - metres above ordnance datum New lyn

cumecs - cubic metres per second

Notes: *Climate Change Scenario - 30%, 35% and 70% increases in flow calculated for the 2080's (2070 - 2115). Please see https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances for more information regarding the new climate change guidance. The location of the site and the type (vulnerability) of development determine the climate change allowances to consider in any flood risk assessment.