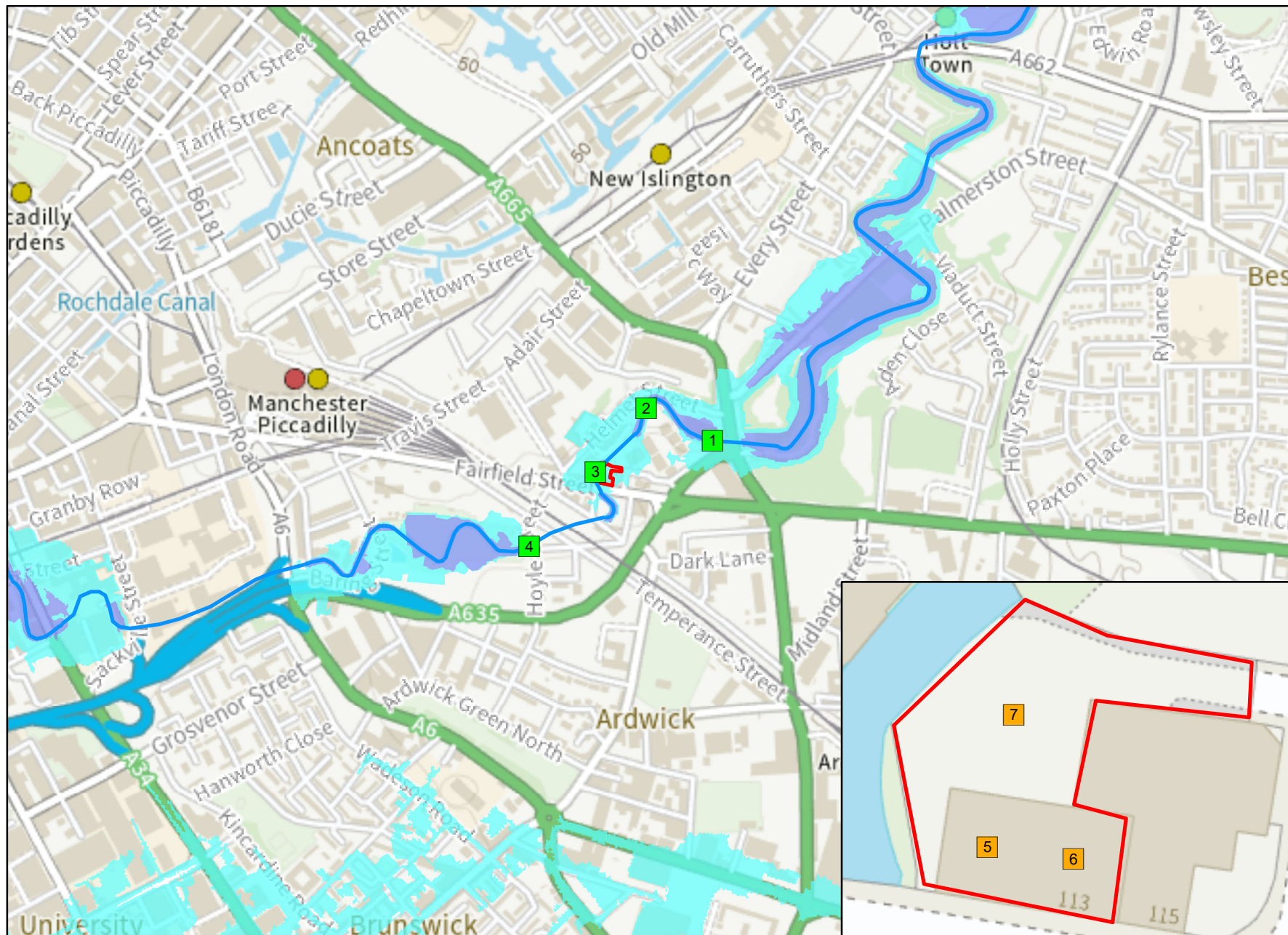


Appendix F Environment Agency's Data and Information

Detailed Flood Map Centred on Fairfield Street, Manchester M12 6EL. Created 06/03/2025 [GMMC400865LB]

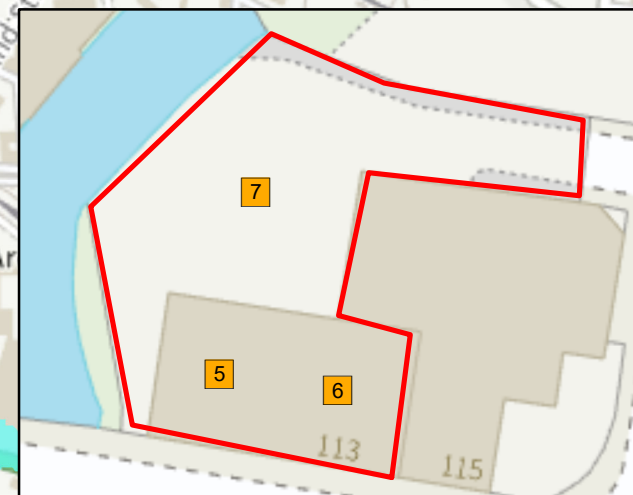


1:10,001



Legend

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



Map Reference	Model Node Reference	Easting	Northing	Data	Undefended				
					4 % AEP (1 in 25 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 35% increase in flow	1 % AEP (1 in 100 year) + 70% increase in flow	0.1 % AEP (1 in 1000 year)
1	ea013_0127_MEDL01_2647	385272	397566	Modelled Water Level (m aodN)	34.92	35.21	35.64	36.01	36.12
				Modelled Flow (cumecs)	50.44	60.14	74.70	87.25	96.42
2	ea013_0127_MEDL01_2934	385392	397701	Modelled Water Level (m aodN)	35.97	36.43	37.27	38.05	38.74
				Modelled Flow (cumecs)	50.01	59.52	73.97	85.23	84.86
3	ea013_0127_MEDL01_3093	385483	397818	Modelled Water Level (m aodN)	36.66	37.43	38.85	40.13	40.44
				Modelled Flow (cumecs)	50.01	59.51	74.42	87.43	92.42
4	ea013_0127_MEDL01_3258	385604	397758	Modelled Water Level (m aodN)	36.90	37.61	39.04	40.34	40.63
				Modelled Flow (cumecs)	50.11	59.50	69.07	69.03	69.24

Map Reference	Model Node Reference	Easting	Northing	Data	Undefended		
					1 % AEP (1 in 100 year) + 35% increase in flow	1 % AEP (1 in 100 year) + 70% increase in flow	0.1 % AEP (1 in 1000 year)
5	2D Levels	385408	397686	Modelled Water Level (m aodN)		38.07	38.73
6		385418	397685	Modelled Water Level (m aodN)		38.08	38.76
7		385411.093	397702.326	Modelled Water Level (m aodN)	37.28	38.08	38.91

Model data taken from River Medcok 2011

AEP - Annual Exceedence Probability

m aodN - metres above ordnance datum Newlyn

cumecs - cubic metres per second

Notes: *Climate Change Scenario - 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.

Map Reference	Model Node Reference	Easting	Northing	Data	Normal Operation										Latchford 1 Gate Closed		Latchford 3 Gates Closed	
					20 % AEP (1 in 5 year)	10 % AEP (1 in 10 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)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year)	0.1 % AEP (1 in 1000 year)
1	ea013_0251_MEDL01_2648d	385272	397566	Modelled Water Level (m aodN)	33.79	33.93	34.09	34.27	34.38	34.49	34.83	34.89	35.35	34.74	35.68	34.49	34.49	35.68
				Modelled Flow (cumecs)	29.45	34.36	40.60	47.15	51.83	55.74	70.92	73.45	91.11	66.75	109.51	55.74	55.74	109.51
2	ea013_0251_MEDL01_2903	385392	397701	Modelled Water Level (m aodN)	34.60	34.83	35.10	35.37	35.55	35.70	36.28	36.38	36.96	36.12	37.77	35.70	35.70	37.77
				Modelled Flow (cumecs)	26.02	30.27	35.66	41.35	45.41	48.81	61.94	64.12	79.36	58.39	95.49	48.81	48.81	95.49
3	ea013_0251_MEDL01_3057	385483	397818	Modelled Water Level (m aodN)	34.80	35.07	35.44	35.85	36.14	36.39	37.46	37.66	38.99	37.16	40.16	36.39	36.39	40.16
				Modelled Flow (cumecs)	26.00	30.24	35.64	41.32	45.38	48.77	61.89	64.08	79.26	58.35	95.43	48.77	48.77	95.43
4	ea013_0251_MEDL01_3231	385604	397758	Modelled Water Level (m aodN)	35.07	35.33	35.67	36.06	36.34	36.58	37.60	37.80	39.09	37.31	40.24	36.58	36.58	40.24
				Modelled Flow (cumecs)	25.95	30.18	35.56	41.24	45.28	48.67	61.77	63.95	79.21	58.25	95.29	48.67	48.67	95.29

Model data taken from Manchester Ship Canal 2016

AEP - Annual Exceedence Probability

m aodN - metres above ordnance datum Newlyn

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.

For the Manchester Ship Canal Model, we provide the following three scenarios:

- Normal Operation: All sluice gates operate automatically to maintain a navigable pounded water level upstream of each set of sluice gates. During times of high flow the gates are opened automatically to allow excess water pass downstream. During extreme conditions the sluice gates can be manually overridden to extend the opening heights.
- Latchford 1 Gate Closed Scenario: This scenario represents a single operational sluice gate at Latchford Locks fixed closed. Therefore, only operational movements from 2 active sluice gates.The model setup removes the gate from PID controller setup and an IED file is used to define the sluice gate as fixed in the closed position.
- Latchford 3 Gates Closed Scenario: This scenario has been defined as the removal of operational rules at all three sluice gates at Latchford Locks, thus, all gates are fixed in the closed position resulting in no regulation of upstream water levels. The model setup removes each of the gates from PID controller setup and an IED file is used to define sluice gates fixed in the closed position.