

Appendix C Environment Agency's Data and Information

General Notes

The Architect shall have no responsibility for any use made of this document other than for that which it was prepared and issued.
All dimensions should be checked on site. Do not scale from this drawing. To be read in conjunction with all other Consultant's drawings. The Architect to be immediately notified of any discrepancies.

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LEGEND

Site Boundary

A	17/11/21	SH	SH	Revised Annotations	
-	12/08/21	HG	SH	Initial Issue	
No.	Date	Dwn	Chk	App	Revision or reason for issue

Client

-

create **it** studios
Architects & Designers

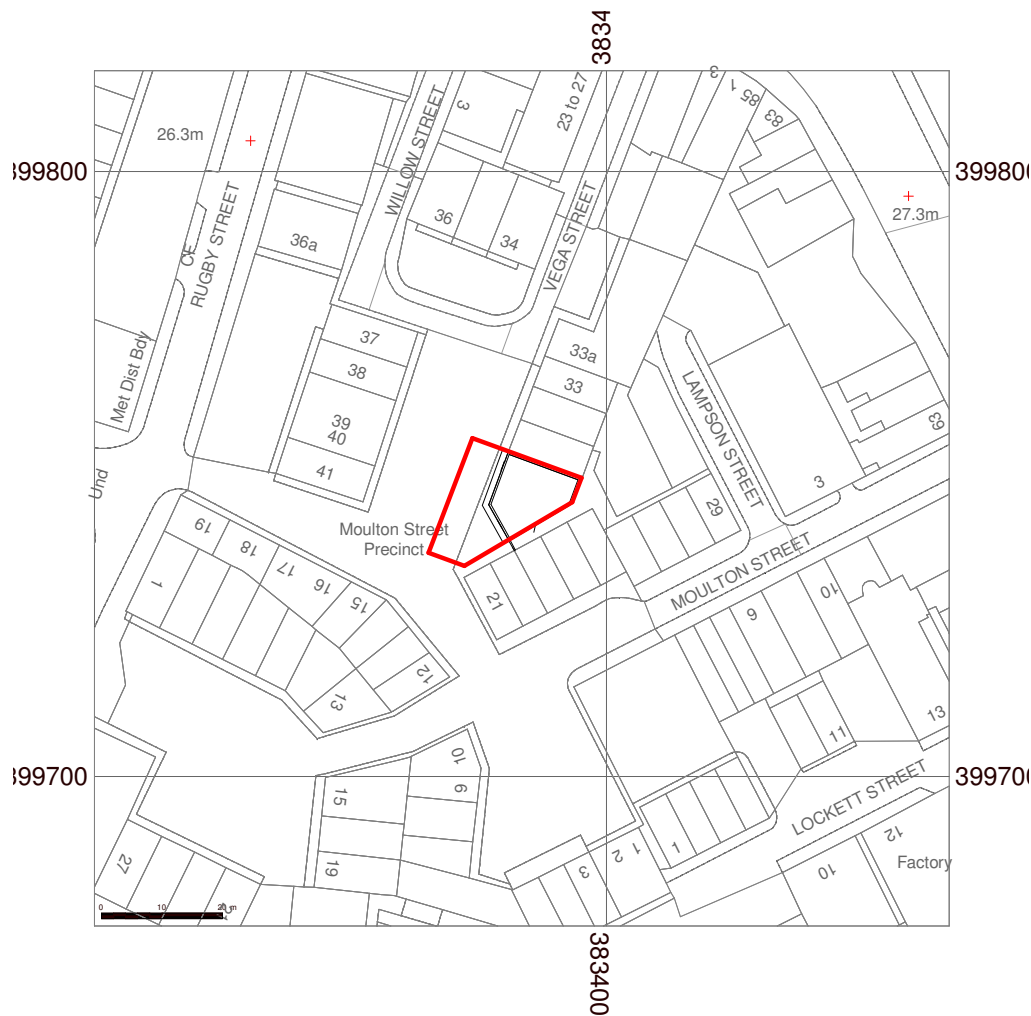
Create It Studios (NW) Ltd
Universal Square
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Project Title
30A Moulton St, Cheetham Hill,
Manchester M8 8FQ

Scale / North Point
As indicated

Drawing Title
Existing Location and Site Plan

Drawing Number	Revision
A1383(01)AP001	A
Drawing Status	
Preliminary	



1

Location Site Plan

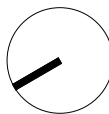
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2

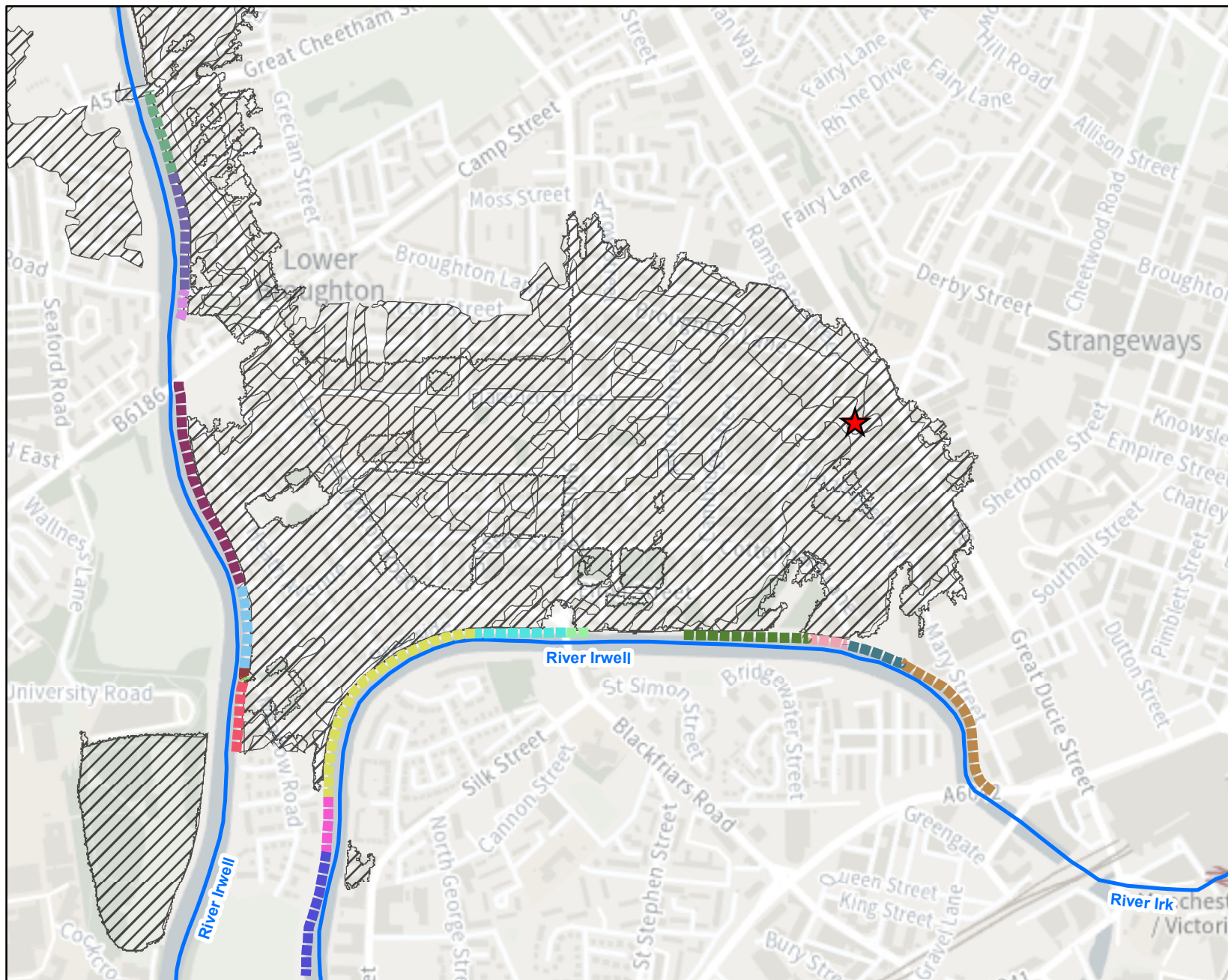
Existing Site Plan

1 : 200



0 2 4 6 8m
1:200

Flood Defence Map centred on Moulton Street, Manchester, M8 8FQ. Created on 25/02/2022 [GMMC250760AB]



1:10,001



Legend



Main River

Defences

Asset ID

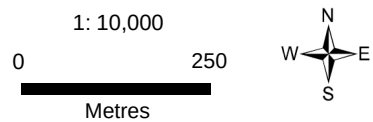
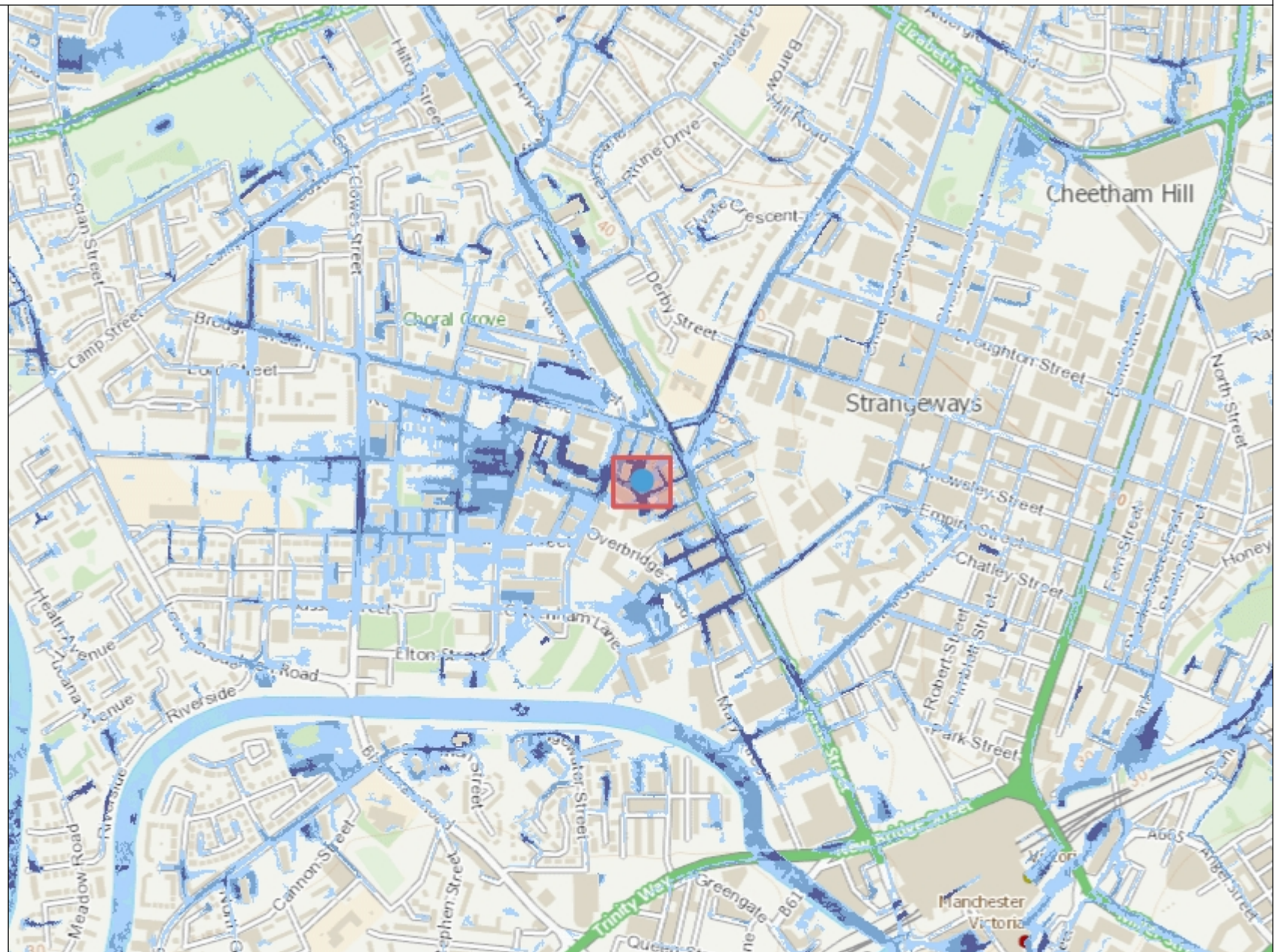
- 123679
- 181081
- 182895
- 185864
- 437717
- 452758
- 59942
- 88831
- 88832
- 88843
- 88845
- 88893
- 89019
- 89056
- 90454
- 90457
- 90459

Areas Benefitting From Defence

Surface Water Risk centred on Moulton Street, M8 8FQ. [GMMC250760AB]

Legend

-  Flood Extent 1 in 30
-  Flood Extent 1 in 100
-  Flood Extent 1 in 1000



Map Reference	Model Node Reference	Easting	Northing	Data	Undersized										Oversized											
					10 % 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) + 30% 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)	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) + 30% 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	ex013_0208_RIV16964	362212	399079	Modelled Water Level (m aodh)	27.59	26.25	26.69	26.99	26.91	26.91	26.46	26.55	30.41	26.17	30.88	26.13	26.46	26.71	26.87	26.97	26.94	26.17	26.99	26.24	26.96	30.63
				Modelled Flow (cumecs)	294.56	333.88	394.72	461.35	495.62	495.09	607.51	627.87	702.15	539.85	709.84	318.27	354.45	386.30	405.52	416.00	423.55	533.84	537.72	652.74	482.61	672.22
2	ex013_0208_RIV10097	362272	399019	Modelled Water Level (m aodh)	27.85	27.86	28.39	28.56	28.63	28.67	28.09	28.17	30.13	28.86	30.73	27.85	28.16	28.41	28.58	28.67	28.75	28.31	28.35	28.79	29.18	30.34
				Modelled Flow (cumecs)	294.44	333.71	393.73	432.39	459.31	463.62	549.05	565.06	630.52	497.19	634.41	318.17	356.33	386.25	405.49	415.98	423.52	523.51	527.13	622.64	480.80	640.52
3	ex013_0208_RIV16346	362390	399362	Modelled Water Level (m aodh)	27.56	27.87	28.49	28.49	28.57	28.61	28.61	28.61	30.11	28.86	28.73	27.75	28.07	28.32	28.48	28.58	28.66	28.30	28.39	28.09	28.39	30.38
				Modelled Flow (cumecs)	294.50	333.74	393.45	431.72	451.68	451.68	544.80	564.86	634.26	444.86	514.59	318.24	356.44	386.43	405.71	416.22	423.80	523.75	527.75	618.76	479.76	641.44
4	ex013_0208_RIV14520	362716	399214	Modelled Water Level (m aodh)	25.92	26.24	26.74	27.03	27.14	27.43	26.60	26.80	30.12	27.93	30.71	26.13	26.49	26.79	26.99	27.11	27.18	28.08	28.21	28.73	27.55	30.38
				Modelled Flow (cumecs)	294.20	332.87	386.88	412.53	421.36	426.86	438.14	439.02	444.87	433.31	439.90	318.14	356.39	386.73	406.17	416.84	424.50	481.78	480.79	473.98	472.12	464.43
5	ex013_0208_RIV14294	362958	399198	Modelled Water Level (m aodh)	25.69	26.01	26.53	26.82	26.94	27.20	26.54	26.76	30.06	27.79	30.66	26.91	26.27	26.99	26.90	26.92	26.99	28.13	29.67	27.36	27.36	30.33
				Modelled Flow (cumecs)	294.27	332.89	387.84	416.33	427.57	436.79	455.99	455.65	461.41	453.23	458.19	318.19	356.46	386.67	406.34	417.03	424.71	482.85	480.80	473.23	441.17	
6	ex013_0208_RIV15949	363158	399320	Modelled Water Level (m aodh)	25.46	26.77	26.29	26.59	26.72	26.96	26.34	26.59	27.81	26.67	30.64	26.37	26.64	26.71	26.79	26.71	26.79	28.16	27.66	27.66	27.66	30.30
				Modelled Flow (cumecs)	294.41	332.96	387.62	416.52	427.76	440.39	460.20	456.67	459.68	459.66	444.25	318.30	356.60	387.09	406.60	417.34	425.03	482.71	480.79	462.24	472.98	436.74
7	ex013_0208_RIV13903	363021	399232	Modelled Water Level (m aodh)	25.30	25.62	26.15	26.46	26.59	26.80	26.16	26.42	29.95	27.32	30.59	26.52	26.90	26.24	26.47	26.59	26.62	26.66	27.50	27.66	26.96	30.24
				Modelled Flow (cumecs)	294.55	333.02	388.03	416.72	434.26	440.26	525.61	522.09	500.07	507.94	489.16	318.43	356.77	387.32	406.88	417.65	425.36	526.40	532.84	523.37	472.53	494.47

Map Reference	Model Node Reference	Easting	Northing	Data	Undersized					Oversized				
					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) + 30% 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) + 30% increase in flow	1 % AEP (1 in 100 year) + 30% increase in flow	1 % AEP (1 in 100 year) + 70% increase in flow
8	20 Measurements	362376	399726	Modelled Water Level (m aodh)	27.44	27.54	26.43	26.65	26.04	27.81	30.65	27.60	28.02	26.63
9		363388	399749	Modelled Water Level (m aodh)	27.44	27.54	26.43	26.65	26.04	27.81	30.65	27.60	28.02	30.31
10		363400	399733	Modelled Water Level (m aodh)	27.44	27.54	26.42	26.64	30.03	27.81	30.65	27.89	28.01	30.31

Model data taken from Lower Havel 2017 Study
AEP - Annual Exceedance Probability
m aodh - metres above ordnance datum Newlyn
cumecs - cubic metres per second

Notes: Climate Change Scenario - 30%, 30% and 70% increases in flow calculated for the 2080s (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 (suitability) of development determine the climate change allowances to consider in any flood risk assessment.

Recorded Flood Outlets					
Flood Event Code	Name	Start Date	End Date	Source of Flooding	Cause of Flooding
18323	IRWE	20/09/1946	21/09/1946	Main River	channel capacity exceeded (no raised defences)
27119	IRWE	01/11/1986	02/11/1986	Main River	channel capacity exceeded (no raised defences)
4079700	Lower Broughton	26/12/2015	26/12/2015	Main River	Overlapping of defences

Flood Defences					
Start Date	Asset Type	Asset ID	Standard of Protection	Upstream Actual Crest Level (m aodh)	Downstream Actual Crest Level (m aodh)
01/01/2003	Engineered High Ground	88831	75	27.66	27.44
01/01/2003	Embankment	123679	75	27.77	27.48
14/12/2012	Wall	181081	75	27.10	27.07
01/01/2010	Wall	102095	75	28.10	28.10
01/01/2003	Embankment	165864	75	26.53	27.88
01/01/2003	Embankment	437717	75	26.78	26.78
Unknown	Embankment	452758	75	27.10	27.10
01/01/2003	Embankment	88832	75	26.94	26.78
01/01/2003	Engineered High Ground	88843	75	27.99	22.22
01/01/2003	Engineered High Ground	88845	75	22.22	24.96
01/01/2003	Engineered High Ground	88850	75	27.44	27.20
01/01/2003	Wall	89019	75	26.80	26.80
01/01/2003	Engineered High Ground	89056	75	27.06	26.33
01/01/2003	Wall	90454	75	30.07	26.88
01/01/2003	Wall	90467	75	26.86	26.47
01/01/2003	Wall	59962	75	26.93	26.94
01/01/2003	Wall	90459	75	26.96	26.96