

Appendix C

Environment Agency Correspondence

Georges Mikhael

From: Georges Mikhael
Sent: 20 March 2017 14:53
To: Neil Jaques
Subject: Littlehampton flood compensation

FYI

Georges Mikhael | Engineer
BSc (Hons) MCIHT MIHE
CIHT London Region Treasurer

motion | 84 North Street, Guildford, GU1 4AU

The information in this email is confidential and is intended solely for the addressee(s). Access to this email by anyone else is unauthorized. If you are not an intended recipient, you must not read, use or disseminate the information contained in this email. Any views expressed in this message are those of the individual sender, except where the sender specifically states them to be the views of Motion.

From: PSO West Sussex [REDACTED]
Sent: 20 March 2017 14:50
To: Georges Mikhael <[REDACTED]>
Subject: RE: Product 4 order

Hi Georges,

On the basis that the site is only affected by tidal flooding, you will not need to compensate the flood storage elsewhere on the site.

Many thanks,
Freddie

Freddie Fielding

Flood and Coastal Risk Management Officer | West Sussex Partnerships & Strategic Overview
Environment Agency | Guildbourne House | Chatsworth Rd | Worthing | West Sussex | BN11 1LD

E [REDACTED]
In [REDACTED]

Please note I'm only available part time, for any urgent queries please direct them to PSOWestSussex@environment-agency.gov.uk

DO YOU KNOW WHAT TO DO?

**FLOODS
DESTROY
BY PREPARING**

From: Georges Mikhael [REDACTED]
Sent: 16 March 2017 16:19
To: PSO West Sussex [REDACTED]
Subject: RE: Product [REDACTED]

Hi Freddie, I hope you are well.

I am hoping you could answer just one more question for me regarding the site below.

If we are proposing to fill a void (used to be bunker that has been dug out, maximum volume approx. 25 - 35m³) would we need to compensate the flood storage elsewhere on site? I ask because usually the projects that have flooding due to tidal risks do not usually require any compensation.

Can you confirm that this is the case?

Thanks.

Georges Mikhael | Engineer

BSc (Hons) MCIHT MIHE

CIHT London Region Treasurer

motion | 84 North Street, Guildford, GU1 4AU

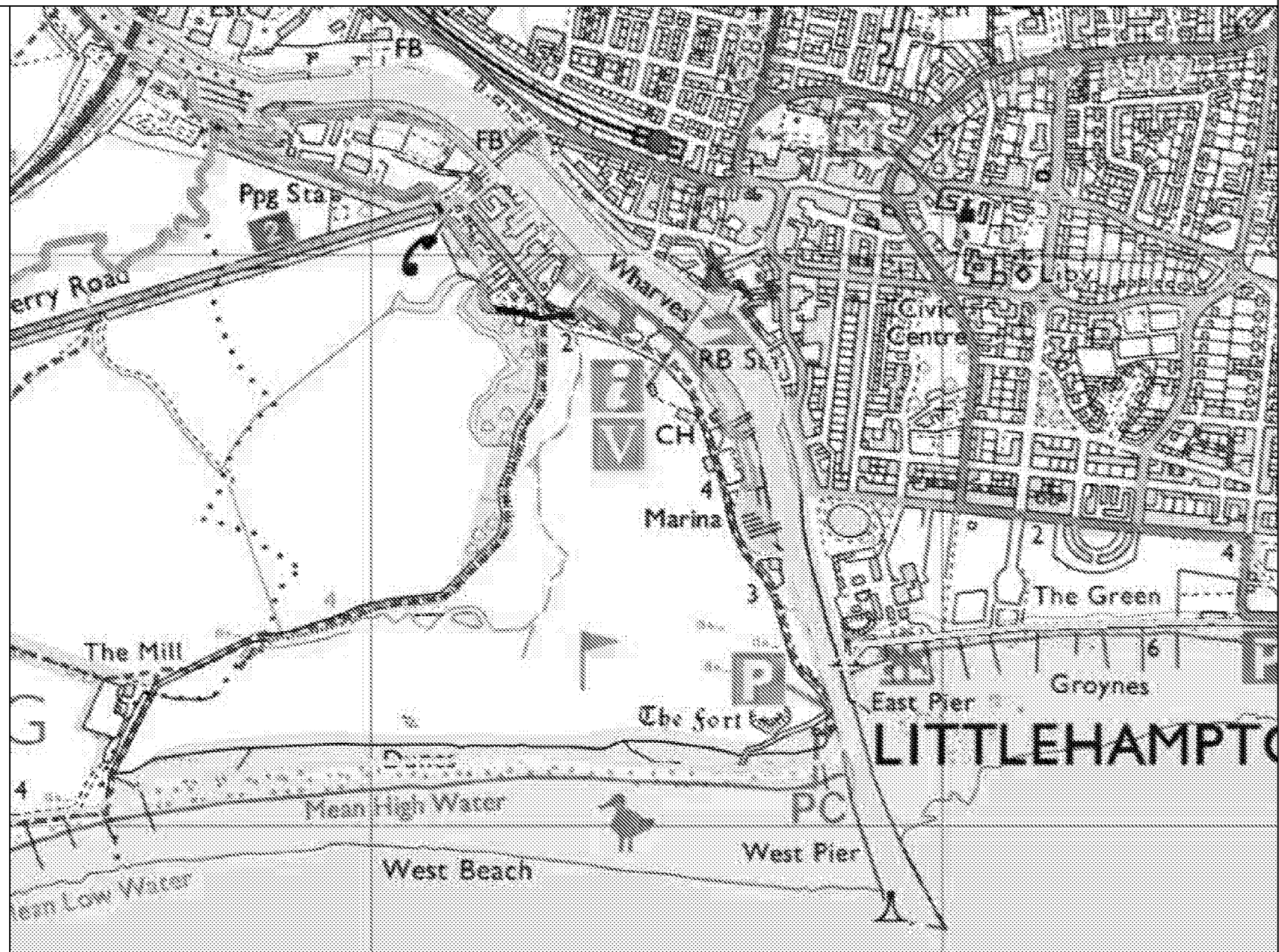
The information in this email is confidential and is intended solely for the addressee(s). Access to this email by anyone else is unauthorised. If you are not an intended recipient, you must not read, use or disseminate the information contained in this email. Any views expressed in this message are those of the individual sender, except where the sender explicitly states them to be the views of Motion.

Flood Defence Locations. Centred BN17 5DL. Created 22/02/2017.

Legend

Defences

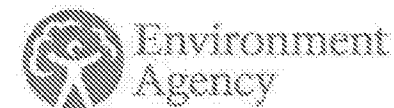
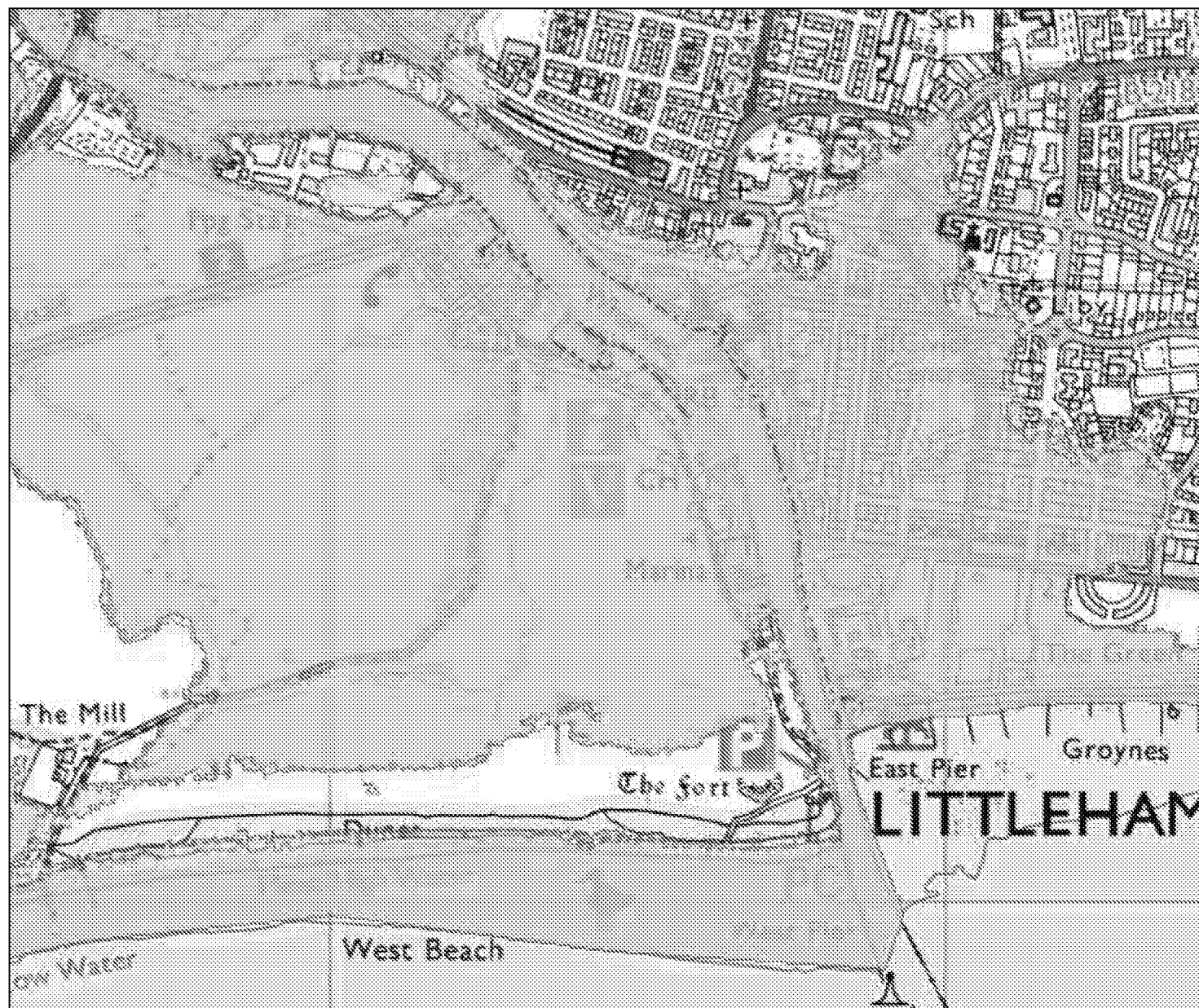
-  Embankment
-  Wall
-  Flood Gate
-  Demountable Defence
-  Bridge Abutment
-  High Ground
-  Beach
-  Barrier Beach
-  Promenade
-  Quay
-  Cliff
-  Dunes
-  Culvert



0 100 200 300
Metres



Flood Map for Planning (Rivers and Sea). Centred BN17 5DL. Created 22/02/2017.



Scale 1: 10,000



Flood Map for Planning (Rivers & Sea)

- Defences
- Flood Storage Areas
- Areas benefiting from flood defences
- Flood Zone 3
- Flood Zone 2

Flood Map Areas (assuming no defences)

Flood Zone 3 shows the area that could be affected by flooding:

- from the sea with a 1 in 200 or greater chance of happening each year
- or from a river with a 1 in 100 or greater chance of happening each year.

Flood Zone 2 shows the extent of an extreme flood from rivers or the sea with up to a 1 in 1000 chance of occurring each year.

© Crown Copyright and database rights 2017. Ordnance Survey 100024198

Product 4 Flood Risk Data Requested by: Georges Mikhael
Site: BN17 5DL, Littlehampton

Table 1: Water Levels: Tidal Undefended

Node Reference	NGR		Modelled Flood Levels in Metres				
	Eastings	Northings	Undefended Annual Exceedance Probability				
			5%	0.5%	0.5% (2070)	0.5% (2115)	0.1%
1	502355	101778	3.06	3.20	3.59	4.33	3.34
2	502499	101726	3.06	3.20	3.59	4.33	3.34
3	502334	101588	3.06	3.20	3.59	4.33	3.33
4	502533	101569	3.06	3.20	3.59	4.33	3.34
5	502294	101434	3.05	3.20	3.59	4.33	3.33
6	502474	101410	3.06	3.20	3.59	4.33	3.33
7	502636	101371	3.06	3.20	3.59	4.33	3.34

Table 2: Water Levels: Tidal Defended

Node Reference	NGR		Modelled Flood Levels in Metres				
	Eastings	Northings	Defended Annual Exceedance Probability				
			5%	0.5%	0.5% (2070)	0.5% (2115)	0.1%
1	502355	101778	-	-	2.76	3.65	2.18
2	502499	101726	-	-	2.76	3.65	2.18
3	502334	101588	-	1.82	2.76	3.65	2.18
4	502533	101569	-	-	2.76	3.65	2.18
5	502294	101434	-	-	2.76	3.65	2.17
6	502474	101410	-	-	2.76	3.65	2.18
7	502636	101371	-	1.35	2.76	3.65	1.53

Table 3: Water Depth: Tidal Undefended

Node Reference	NGR		Modelled Flood Depth in Metres				
	Eastings	Northings	Undefended Annual Exceedance Probability				
			5%	0.5%	0.5% (2070)	0.5% (2115)	0.1%
1	502355	101778	1.43	1.57	1.96	2.67	1.71
2	502499	101726	1.05	1.19	1.58	2.32	1.33
3	502334	101588	1.63	1.78	2.17	2.91	1.91
4	502533	101569	1.16	1.30	1.69	2.43	1.44
5	502294	101434	0.95	1.09	1.48	2.22	1.23
6	502474	101410	2.17	2.31	2.70	3.44	2.45
7	502636	101371	1.74	1.88	2.27	3.01	2.02

Office Address: Guildbourne House, Chatsworth Road, Worthing BN11 1LD.
 Customer services line: 03708 506 506. Email: enquiries@environment-agency.gov.uk
www.gov.uk/government/organisations/environment-agency

Table 4: Water Depth: Tidal Defended

Node Reference	NGR		Modelled Flood Depth in Metres				
	Eastings	Northings	Defended Annual Exceedance Probability				
			5%	0.5%	0.5% (2070)	0.5% (2115)	0.1%
1	502355	101778	-	-	1.13	2.02	0.55
2	502499	101726	-	-	0.75	1.64	0.18
3	502334	101588	-	0.39	1.34	2.23	0.75
4	502533	101569	-	-	0.86	1.75	0.28
5	502294	101434	-	-	0.65	1.54	0.06
6	502474	101410	-	-	1.87	2.76	1.29
7	502636	101371	-	0.03	1.44	2.33	0.21

All levels taken from: River Arun to East Head (2D) model, completed in 2016 by JBA Consulting.

There is no additional information or health warnings for these levels/depths or the model from which they have been produced.

Produced on 22/02/2017



Environment
Agency

N
▲

Legend

- Site Nodes
- ▬ Site Boundary
- ▬ Main River
- 5% AEP (Defended Tidal)
- 0.5% AEP (Defended Tidal)
- 0.1% AEP (Defended Tidal)
- 0.5% AEP (2070) NPPF (Defended Tidal)
- 0.5% AEP (2115) NPPF (Defended Tidal)

Scale: 1:10,000

00.250.5

Kilometers





Environment
Agency

N
▲

Legend

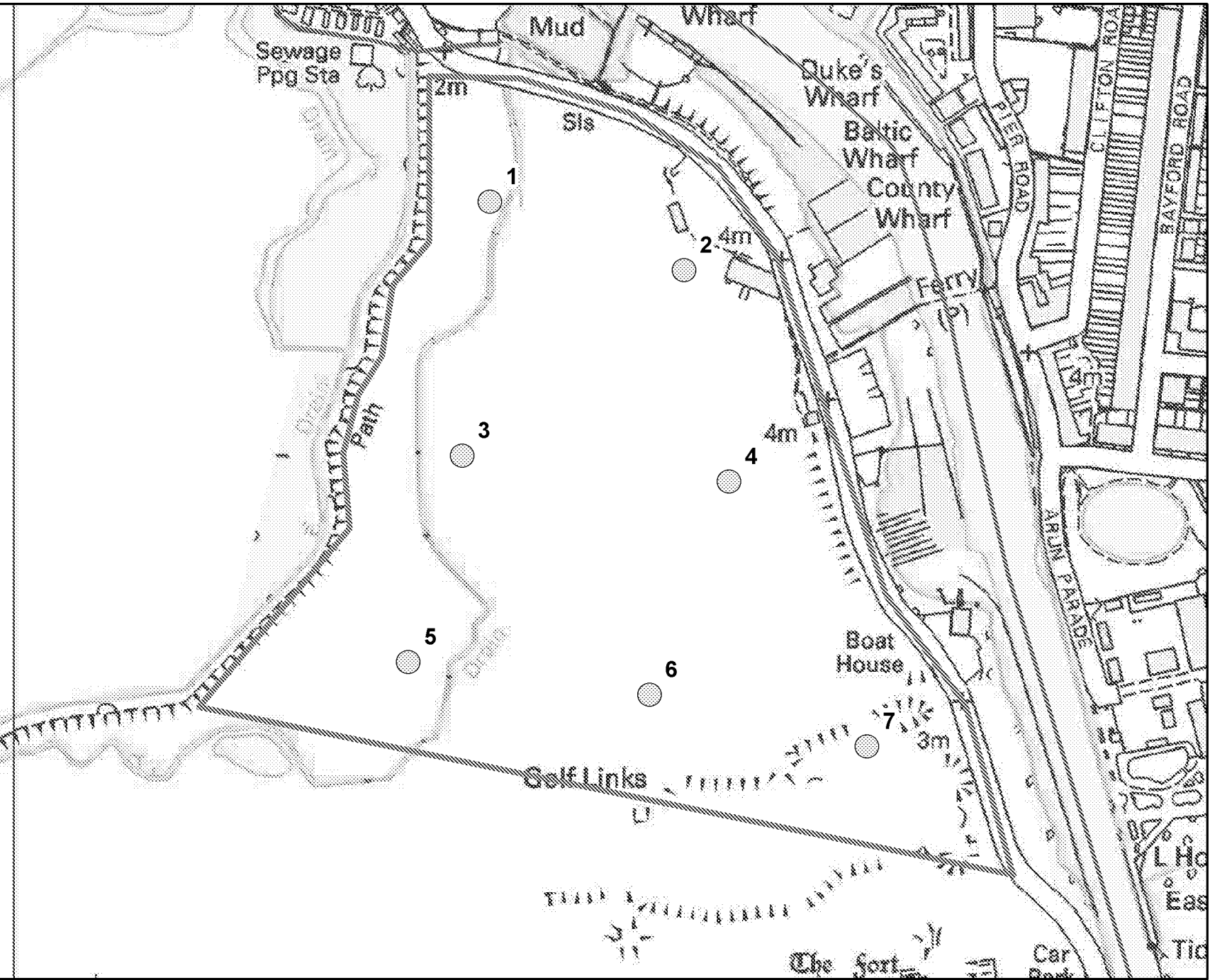
- Site Nodes
- ▬ Site Boundary
- ▬ Main River
- 5% AEP (Un defended Tidal)
- 0.5% AEP (Un defended Tidal)
- 0.1% AEP (Un defended Tidal)
- 0.5% AEP (2070) NPPF (Un defended Tidal)
- 0.5% AEP (2115) NPPF (Un defended Tidal)

Scale: 1:10,000

00.250.5

Kilometers







Environment
Agency

N



Legend

-  Site Nodes
-  Site Boundary
-  Main River

Scale: 1:4,000

00.10.2

Kilometers