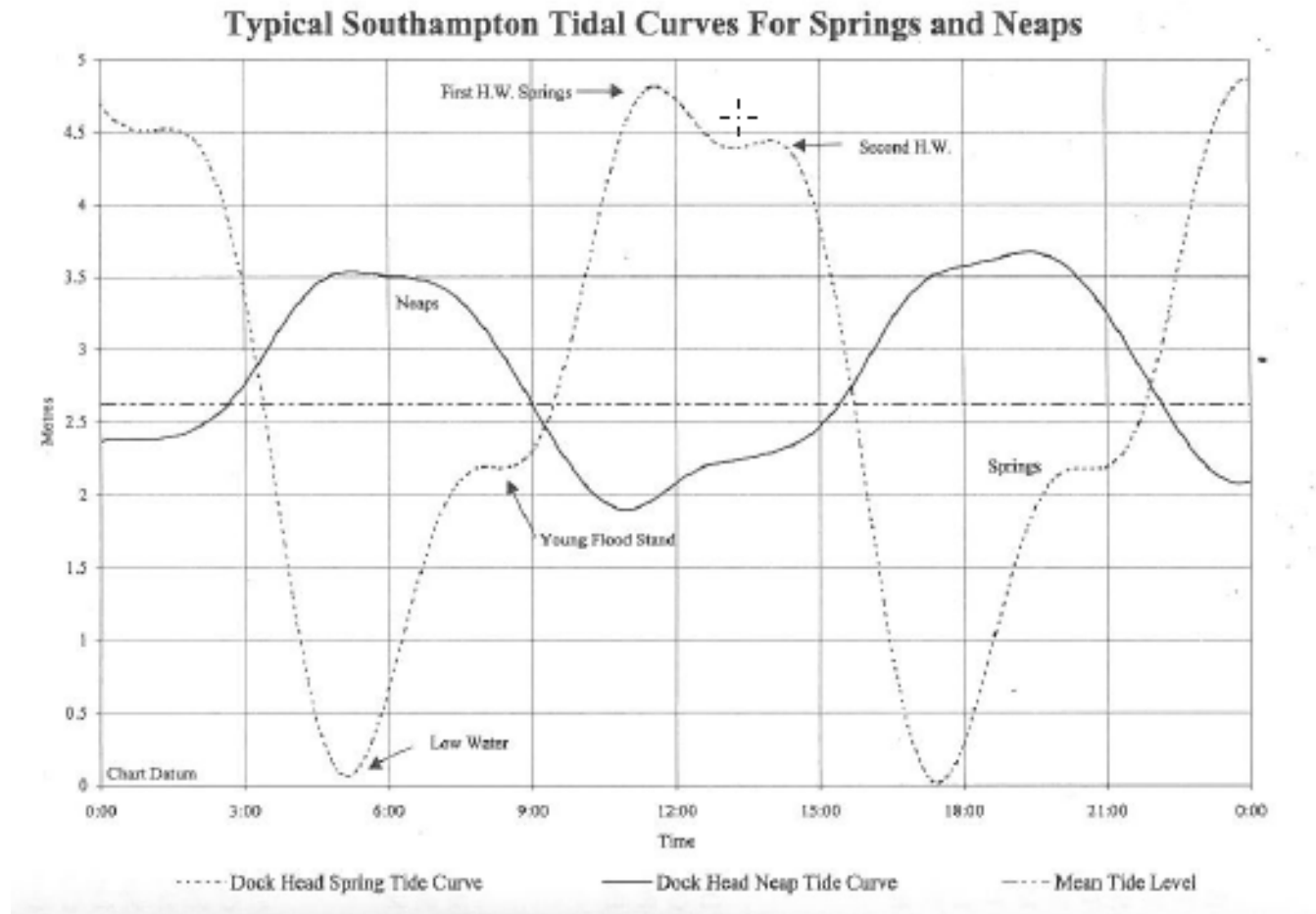


# Upper Priory Road Flood Defence

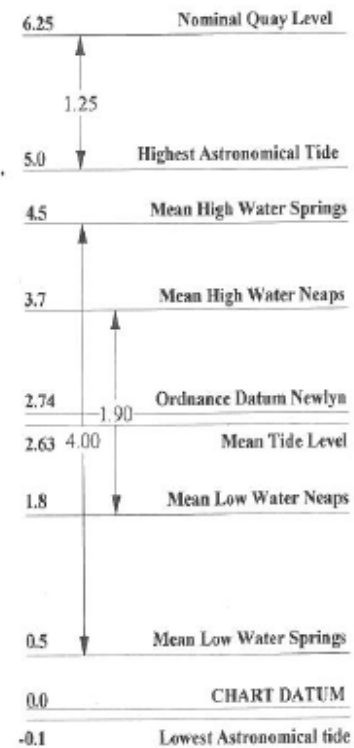
Andy Varley  
312 Priory Road

# Sea Level vs Ground Level



# Datums

**TIDAL LEVELS**  
HEIGHTS IN METRES AT STANDARD TIDE GAUGE  
(37 BERTH, EASTERN DOCKS SOUTHAMPTON)



# Flood Effects



# Flood Effects



# Flood Levels

- Survey from Road to Sea Wall (306)
- Assume Wall + 5 cm (Based on photo)
- Flood Height = 3.03m AOD = 5.77m ACD
- Road Height = 3.5m to 4.7m
- Have assumed above level as reference flood level
- Have measured wall heights relative to reference flood level

# Wall Height and Build Up

House Number	Ref Height m	Measued Height m	Addition to Flood Level + 0.2m	Addition to Flood Level + 8 inches	Comments
Arcadia	1.48	1.48	0.26	10.4	Reference Height
314	1.48	1.28	0.46	18.4	
312	1.48	1.41	0.33	13.2	
310	1.48	1.3	0.44	17.6	
308	1.48	1.49	0.25	10	
306	1.48	1.51	0.23	9.2	Existing Flood 0.03m over existing wall
304	1.48	1.51	0.23	9.2	
302	1.48	1.49	0.25	10	
300	1.48	1.3	0.44	17.6	Top blocks loose
298	1.48	1.26	0.48	19.2	
296	1.48	1.49	0.25	10	
294	1.48	1.32	0.42	16.8	
292	1.48	1.18	0.56	22.4	Wall by deck
290	1.48	1.18	0.56	22.4	
288	1.48	1.4	0.34	13.6	
288A	1.48	1.4	0.34	13.6	
286	1.48	1.3	0.44	17.6	
282	1.48	1.3	0.44	17.6	
280	1.48	1.34	0.4	16	d/s end. Inner wall +0.5
278	1.48	1.35	0.39	15.6	Top of concrete wall. Bags on top
276	1.48	1.8	-0.06	-2.4	u/s end of wall
274	1.48	1.8	-0.06	-2.4	top of wall. Gate
270A	1.48	1.65	0.09	3.6	Patio top of ramp. Wall lower d/s
268A	1.48	2.5	-0.76	-30.4	

# Considerations

- Potential for existing floods to be higher
- Little allowance for future sea level rises (8")
- Some walls require strengthening and raising
- Raised wall will require additional strength
- Include water release mechanisms
- Provide good foundation for future scenarios