RECOMMENDATION OF DATA MANAGEMENT GROUP FOR THE CONTENT OF BMP REPORTS

Proposed general layout of BMP Report – not all items will be appropriate for all sites (much will depend on site topography and availability of longer-term historical data)

No.	Section	Suggested content	Comments
	Abstract	Summary of storms experienced, and resultant beach changes during last year, set in perspective of long-term beach management at site	
1	Introduction	1-2 page background to site and summary of reasons why Beach Management Plan was derived	Text plus location diagrams (with latest aerial photography). Some general (oblique) photographs may be useful
2	BMP design conditions	Wave climate and models used for design. Derivation of beach alarm and crisis levels. Design water levels and Joint Probability wave/water levels for frontage (include current tide levels)	Text and tables
3	Surveys conducted	All surveys (including lidar, aerial and historic)	Table (include depth achieved and tide level)
4	Beach management operations	Details of recycling and other beach management operations, including maps, quantities and dates	Tables and summary text
5	DTM	Current beach state	
6	Difference models of ground surveys	• Latest summer-to-summer *e.g*. 2011 – 2010 • All previous years summer-to-summer *e.g*. 2010 – 2009 • Latest to significant event *e.g*. summer to post-recharge, or at 5-yearly intervals NB It may also be appropriate to summarise spatially, rather then temporally	As diagrams, superimposed on latest aerial photography, but summarised briefly in text
7	Difference models of lidar	If available and appropriate	As diagram on aerial photography
8	5 yearly-aerial photography	Superimposed with 5-yearly HWM derived from closest appropriate survey (lidar or topo)	
9	Beach profile analysis	Selected profile graphs only - highlight changes due to management – but include table of CSA for all profiles over time	Profile diagrams and text. Diagrams should include 2 latest surveys, profile envelope and Master Profile

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10	Volumetric analysis	Whole beach (including from profiles, to make use of spring and autumn surveys as well as summer baselines and any lidar). If historic data available but not to same extent, consider separate graph, or other way to incorporate *e.g*. artificially extending if sufficient survey data available to do this with some confidence. Same for post-storm surveys.	Whole-beach volume graph over time. Tables of volumes, including cumulative loss %; separate analysis for beach above different levels if appropriate
		Cumulative plots of (i) net change and (ii) net volume *cf.* design	
11	Bathymetric data analysis	Latest DTM (if multibeam data available) + difference models, if appropriate, otherwise as profiles. Should not use profile data for grids if rocky seabed	Summary text (highlighting notable features), plus diagrams on aerial photography.
12	Changes in HWM/MLW	If sufficiently long-term data available, probably needed only every 5 years, though shorter term may be useful for sites of rapid change *e.g*. Pagham Spit	As polylines on latest aerial photography
13	Longer-term historical analysis	If data available *e.g*. old aerial photography	Diagrams, or historic cliff-lines or other polylines *e.g*. outline of spit superimposed on recent aerial photography
14	General Wave climate	Wave exceedance, return periods (if > 5 years), wave roses (past year + all data), storm calendar. Notable storms from time since issue of last BMP report. Include synthetic wave data if available	Assess against Joint Return Periods (if available)
15	Special site conditions		
16	Storm performance of beach	Post-storm beach profile analysis, to determine short-term performance of beach – link more specifically with wave event analysis (~36 hours)	A couple of good post-storm profile photographs would be useful
17	Additional analysis	Any site-specific additional analysis *e.g.* derivation of overtopping thresholds	
18	Assessment of beach performance against critical levels		
19	Conclusions and recommendations		