Adran yr Economi a'r Seilwaith
Department for Economy and Infrastructure

Llywodraeth Cymru
Welsh Government

The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East of Magor) Connecting Road) Scheme 201-

The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East of Magor) Connecting Road) (Amendment) Scheme 201-

The London to Fishguard Trunk Road (East of Magor to Castleton) Order 201-

The M4 Motorway (West of Magor to East of Castleton) and the A48(M) Motorway (West of Castleton to St Mellons)(Variation of Various Schemes) Scheme 201-

The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and the M48 Motorway (Junction 23 (East of Magor) Connecting Road) and The London to Fishguard Trunk Road (east of Magor to Castleton) (Side Roads) Order 201-

The Welsh Ministers (The M4 Motorway (Junction 23 (East of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and the M48 Motorway (Junction 23 (East of Magor) Connecting Road) and the London to Fishguard Trunk Road (East of Magor to Castleton)) Compulsory Purchase Order 201-

The M4 Motorway (Junction 23 (East Of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East Of Magor) Connecting Road) (Supplementary) Scheme 201-

The Welsh Ministers (The M4 Motorway (Junction 23 (East Of Magor) to West of Junction 29 (Castleton) and Connecting Roads) and The M48 Motorway (Junction 23 (East Of Magor) Connecting Road) and The London to Fishguard Trunk Road (East of Magor to Castleton)) Supplementary Compulsory Purchase Order 201-

Appendix to Proof of Evidence

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Welsh Government, Tidal Flooding

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Tidal flooding Glossary

ABP	Associated British Ports.
AEP	Annual Exceedance Probability. The probability of an event (such as an extreme water level) being exceeded on an annual basis.
BCR	Benefit Cost Ratio. The ratio between economic benefits and costs.
Confidence Interval	An amount that accounts for some statistical measure of uncertainty (confidence bounds). The value of Confidence Intervals can vary for Extreme Water Levels with different % Annual Exceedance Probability.
Defra	Department for Environment, Food and Rural Affairs.
EA	Environment Agency.
Emissions scenarios	Defined scenarios from UKCP09 that set out future emissions that influence climate change, and therefore Extreme Water Levels.
EWL	Extreme water level. A water level that is a combination of astronomic tides and meteorological effects (storm surge).
FCERM	Flood and coastal erosion risk management.
KS2	Key Stage 2. The stage in which preliminary investigations are undertaken.
M4CaN	M4 Corridor around Newport.
NRW	Natural Resources Wales.
PPW	Planning Policy Wales.
SEFRMS	Severn Estuary Flood Risk Management Strategy.
SESMP2	Severn Estuary Shoreline Management Plan 2.
SLR	Sea level rise. Change (increase) in sea levels due to climate change.
SoP	Standard of Protection. Parameter to which a scheme has been designed to achieve, e.g. tidal overtopping.
SoCG	Statement of Common Ground.

TAN15	Technical Advice Note 15.
Upper end	An upper end estimate of sea level rise, very similar to WAG (2007) and Defra (2006).
Upper end plus surge	As for Upper end, but with the predicted increase in storm surge due to climate change additionally applied.
WAG	Welsh Assembly Government.
WG	Welsh Government.
Zone C1	A sub-division of Zone C. Zone C is defined in TAN15 Figure 1 as *"Based on* Environment *Agency extreme flood outline, equal to or greater than 0.1% (river, tidal or coastal)"*. Zone C1 is defined as *"Areas of the floodplain which are developed and served by significant infrastructure, including flood defences."*. Within the precautionary framework it is *"Used to indicate that development can take place subject to application of justification test, including acceptability of consequences."*.
%ile	Percentile. The statistical measure of uncertainty, for example to define a Confidence Interval.