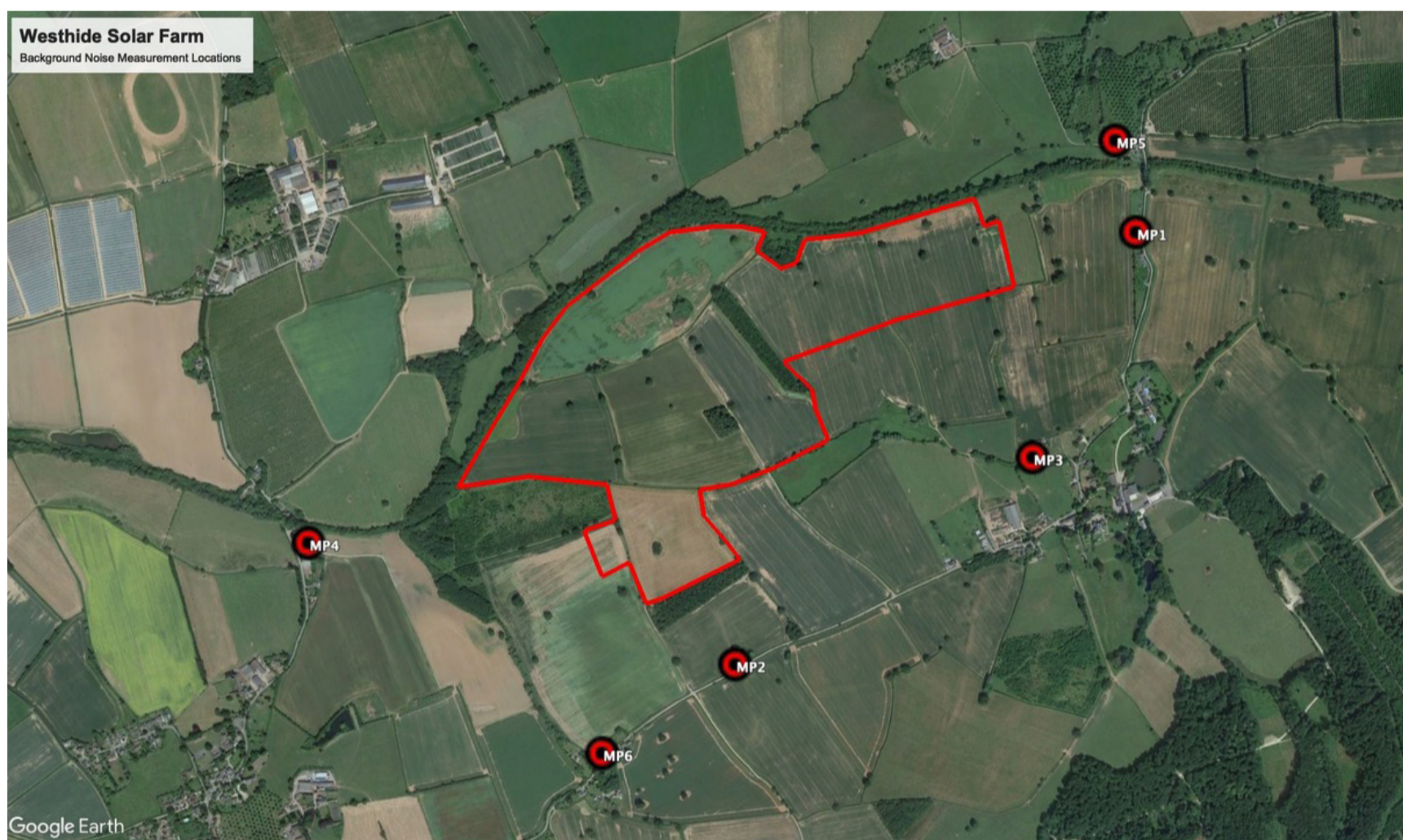


## Background noise levels unchanged (1)

Earlier this year background noise measurements were taken at the nearest noise-sensitive dwellings (we are grateful to the residents for their participation) – please see the map below:



A noise modelling exercise was subsequently undertaken using best-practice standards.

What the results of the noise modelling show is that even with an additional noise margin added to the expected noise levels from the solar farm equipment, they fall comfortably within existing background noise levels at all the measured locations.

## Background noise levels unchanged (2)

The following table outlines the results produced from the noise model:

Measurement Position	Existing background noise level (daytime) for 90% of the time	Existing background noise level (night-time) for 90% of the time	Calculated noise level at location with solar farm equipment*	Noise level plus best-practice adjustment with +3dB extra added**	Daytime difference***	Night-time difference***
MP1	32	32	24.3	27	-5	-5
MP2	33	33	28.4	31	-2	-2
MP3	31	31	24.7	28	-3	-3
MP4	35	34	24.3	27	-8	-7
MP5	34	33	24.7	28	-6	-5
MP6	30	30	22.5	26	-4	-4

\* The combined noise level from all noise-generating solar farm equipment at each location.

\*\* The specific sound level plus any adjustment for the characteristic feature of the sound, referenced in BS 4142. In this case a correction of +2 dB has been added to account for the acoustic characteristic of the PV inverters and transformers. Additionally, a +1 dB for calculation uncertainty has been added for robustness.

\*\*\*The difference between the calculated noise level and the background noise level including corrections.