Appendix 4: Climate Change Risk Assessment – Willow View Farm

Dated 10/02/25

Potential changing climate variable	Α	В	С	D	E	F	G	н
	Impact	Likelihood	Severity	Risk (B x C)	Mitigation (what we do/are currently doing to mitigate this risk)	Likelihood (after mitigation)	Severity (after mitigation)	Residual risk (F x G)
 Summer daily maximum temperature may be around 7°C higher compared to average summer temperatures now. 	Ventilation system unable to maintain optimum temperature within livestock housing.	3	3	9	Daily temperatures are logged (max/min for all houses) Ventilation system is modern and adequate to cope with the increase in temperature	2	1	2
2. Winter daily maximum temperature could be 4°C more than the current average, with the potential for more extreme temperatures, both warmer and colder than present.	No negative impact expected.	1	1	1	No mitigation required as very low risk. Score under 5.	1	1	1
3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity)*.	Surface water drainage system overloaded.	2	2	4	Land drains maintained. Prepare flood plan with reference to additional guidance <u>"Preparing for</u> <u>flooding. A guide for sites regulated</u> <u>under EPR and COMAH (June 2015)"</u>	2	1	2
4. Average winter rainfall may increase by 41% on today's averages.	Surface water drainage system overloaded.	3	2	6	As above	2	1	2
5. Sea level could be as much as 0.6m higher compared to today's level*.	Inland site. Low impact expected.	2	2	4	Monitor permanent change to local water levels and plan for flood defences as appropriate	2	1	2
6. Drier summers, potentially up to 45% less rain than now.	No negative impact expected.	1	1	1	No mitigation required as very low risk. Score under 5.	1	1	1
7. The flow in the watercourses could be 40% more than now at its peak*, and 80% less than now at its lowest.	Local flooding from overflowing watercourses.	3	2	6	Land drains and ditches/dykes/main drains maintained by the local farmers and the Drainage Board.	2	1	2

*Indicates data has come from climate change allowances as part of the spatial planning process.