Site Specific Risk Assessment

Risk assessment for proposed land-spreading activity – Middle Woodstock Farm, Clarbeston Road, Woodstock, Pembrokeshire, SA63 4TG

Risk assessment carried out by: Mr Daniel James & Mrs Carys James Date: January 2026

Data				Judgement				Action	
Receptor What is at risk? What do I wish to protect?	*Source* The agent or process with potential to cause harm	*Harm* The harmful consequences if things go wrong	*Pathway* How the receptor might come into contact with the source	*Probability of exposure* How likely is this contact?	*Consequence* Severity of the consequences if this occurs	*Magnitude of risk* The overall magnitude of the risk	*Justification for magnitude* Basis of my judgement	*Risk management* How I can best manage the risk to reduce the magnitude	*Residual risk* Magnitude of the risk after management
Surface water – ditches, watercourses and ponds	Nutrients, organic matter and solids	Surface water pollution	Direct application to surface water, underdrainage and run off	Low	High	Medium	No spread areas, buffer zones in place and accurate spreading with dribble bar.	Comply with COGAP, Sludge Regs and EPR. Spreading to be only undertaken when conditions are suitable. No spreading areas enforced as per plans attached to application.	Low
Groundwater /Soils	Nutrients and PTES	Groundwater pollution and excessive nutrient build up	Over-application to land	Low	High	Low	The liquid sludges have low PTEs to be applied at proposed rates as detailed in application. Lower than average annual addition limits under Sludge Regs. Nitrogen applied is significantly less than crop recommendations. Phosphate applied is less than crop offtake.	Appropriate given spreading rates and timing of application. Comply with COGAP, EPR and Sludge Regs. Carry out soil analysis of all fields regularly. Fields spread with dribble bar. No spreading within 50m of a spring, borehole or well.	Low
Humans and animals	Spreading activities – physical	Harm to humans or animals	Trespass, accidental contact	Low	Medium	Low	Agricultural areas with limited public access. No public footpaths through fields.	Application during appropriate conditions & awareness of access issues.	Low
Soils	Physical damage to soil structure	Damage to soil structure and poor subsequent crop yields	Delivery and spreading activity	Low	Medium	Low	Delivery and spreading to be undertaken under appropriate ground conditions using low ground pressure equipment.	Comply with COGAP and Cross Compliance Criteria. Apply only in suitable conditions.	Low

Risk Assessment continued

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Soils	PTE addition	Build-up of PTEs.	Spreading activity	Low	Medium	Low	Low levels of PTEs in wastes, lower than average annual addition limits under Sludge Regs.	Comply with COGAP, Cross Compliance and Sludge Regs. Apply at specified rates. Soils sampled regularly.	Low
Soils	Nutrient build up	Reduced yield quality and quantity of subsequent crops, nutrient leaching, runoff to sensitive receptors & surface water	Spreading activity, over application	Low	Medium	Low	Wastes applied at specified rates. The materials are low in available nitrogen. Phosphate applied is less than crop offtake.	Apply according to RB209 recommendations, COGAP & The Water Resources (Control of Agricultural Pollution) (Wales) Regulations. Application rates in agricultural benefit statement not to be exceeded. Carry out soil analysis of all fields regularly.	Low
Air	Odour during storage, loading / unloading and spreading activities	Odour issues and complaints	Airborne compounds	Medium	Medium	Medium	The liquid water clarification sludges have no noticeable odour.	Liquid sludges spread with a low trajectory dribble bar. Prevailing wind direction and weather will be monitored. Liquid sludges in temporary storage are in sealed nurse tanks with roofs.	Low
Air	Dust during spreading	Dust complaints	Dust during windy conditions	Low	Low	Low	The sludges are liquid and have low potential for dust.	Assess wind speed and direction before spreading and proximity to surrounding receptors. Spread when conditions are suitable.	Low
Air/People	Noise	Noise complaints	Noise from delivery, and spreading	Low	Low to Medium	Low	Agricultural machinery in agricultural areas.	Avoid sensitive delivery & spreading periods where possible e.g. bank holidays and weekends. Delivery during daylight hours where possible	Low
Hedgerows and trees	Physical damage from spreading	Ecological + landscape	Physical damage from spreading equipment	Low	Low	Low	Experienced operators employed & instructed to take care around trees	Leave a 2.0m minimum buffer zone adjacent to trees, shrubs and hedges.	Low

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Afon Cleddau Dwyreiniol / Eastern Cleddau River SSSI (The Eastern Cleddau River is of special interest primarily for important populations of Otter, European bullhead,European river lamprey, Brook lamprey, Sea lamprey. Also for its range of river habitats including beds of submerged aquatic plants, with floating vegetation often dominated by water-crowfoot. As well as a variety of associated river habitats.)	Deterioration of site through contamination, nutrient enrichment, habitat loss, smothering	Harm to protected site through contamination, nutrient enrichment, disturbance etc.	Spreading activity, flooding, nutrient run off or leaching	Low	Medium	Medium	No spreading areas enforced to watercourses. Liquid sludges spread with a low trajectory dribble bar applicator. Spreading at appropriate timings. Proximity of nurse tank locations to SSSI.	Assess wind speed and direction before spreading and proximity to surrounding receptors when spreading all fields. Spread when conditions are suitable with no or little wind and when the potential of any gusts is not in the direction of the SSSI. Liquid sludges spread with a low trajectory dribble bar applicator. 10m no spread areas enforced to watercourses. Ensure field conditions are appropriate for spreading.	Low
Local human population and local environment	Flooding of site	If waste is washed off site, it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Low	Medium	Medium	Spreading undertaken only on fields at appropriate timings. Nurse tanks sited in suitable low risk locations and are sealed units with roofs.	No spreading in periods where heavy rain is forecast or if land is waterlogged. Spreading operator to employ 10m no spreading areas as per attached plans to watercourses.	Low

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Afonydd Cleddau / Cleddau Rivers SAC (designated for the European bullhead,European river lamprey, Brook lamprey, Otter, Sea lamprey ; rivers with floating vegetation often dominated by water-crowfoot ; active raised bogs; & Alder woodlands on floodplains)	Deterioration of area through contamination, nutrient enrichment, habitat loss, smothering	Harm to protected conservation area through contamination, nutrient enrichment, disturbance etc.	Spreading activity, flooding, nutrient run off or leaching	Low	Medium	Medium	No spreading areas enforced to watercourses. Liquid sludges spread with a low trajectory dribble bar applicator. Spreading at appropriate timings. Proximity of nurse tank locations to SAC.	Assess wind speed and direction before spreading and proximity to surrounding receptors when spreading all fields. Spread when conditions are suitable with no or little wind and when the potential of any gusts is not in the direction of the SAC. Liquid sludges spread with a low trajectory dribble bar applicator. 10m no spread areas enforced to watercourses. Ensure field conditions are appropriate for spreading.	Low