

Risk Assessment

Graphite Resources

Bespoke Mobile Plant Permit

| Risk | | | | 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 risk | Justification for Magnitude. Basis of my judgement | Risk management. How can I best manage the risk to reduce magnitude | Residual risk. Magnitude of the risk after management |
| Surface water – ditches, watercourses, boreholes, lakes and ponds | Nutrients, organic matter and solids | Surface water pollution | Surface runoff, poor application method | Low | Moderate | Low | Proximity of ditches and sub-surface drains. | Spreading contractor to employ no spreading areas, and avoid application near water courses and drains – implement local knowledge of surface water | Low |
| Groundwater/Soils | Nutrients and PTE;s | Groundwater pollution and excessive nutrient build-up | Over application to the land in question | Low | Moderate | Low | Applied rates according to restoration need. Careful analysis of rate and timing of application | Samples of wastes analysed checked pre-application. Comply with permits spreading plans and EMS. | Low |
| Humans and animals | Physical spreading activities | Harm to humans and animals | Trespass, accidental contact | Low | Low | Low | Application to non-agricultural land only. | Application during appropriate conditions, and operator awareness of surroundings and possible access issues | Low |
| Soils | Physical damage to soil structure | Damage to soil structure and poor subsequent crop yields | Delivery and spreading activity | Low | Medium | Medium | Delivery and spreading to be undertaken by experienced operators in appropriate ground conditions using appropriate equipment | Comply with Soil Code and Cross Compliance criteria. Apply only in suitable conditions. Check all application equipment prior to application commencing. Follow EMS | Low |

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| Soils | PTE addition | Build up of PTE's in soil profile | Spreading activity | Low | Medium | Low | Levels of material to be spread meets industry guidance standards | Follow EMS and spread only at calculated rates specified on application. Regular Sampling | Low |
| Soils | Nutrient build up | Surface run-off | Following application | Low | Low | Low | Previous experience and knowledge of soil nutrient systems, low spreading rates. | Apply volumes according to benefit statement. | Low |
| Soils | Toxicity of material | Damage to soil microflora and fauna | Following application to the soil | Medium | Low | Low | Material is tested and safe to apply. Waste meets baseline specification | EMS Sampling results | Low |
| Air | Odour during spreading activity | Odour issues, complaints | Airborne compounds | Low | Medium | Low | Odour checks carried out by operator prior to release. Location of spreading operations considered. | Comply with EMS, be aware of wind direction when spreading, apply at times of low traffic. Site specific OMP | Low |
| Air/People | Noise | Noise complaints | Noise from delivery and spreading | Low | Low to Medium | Low | Restoration sites use of machinery | Avoid spreading during sensitive periods eg Bank holidays and early or late in the day. Deliver goods to site during normal working hours | Low |