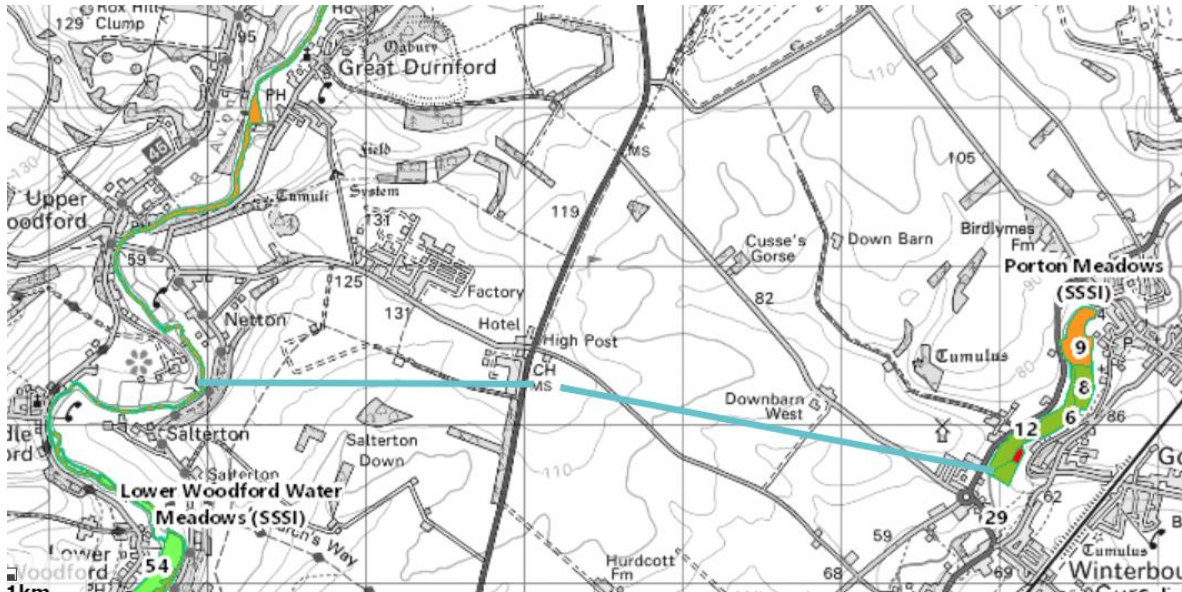


Habitat related receptors.



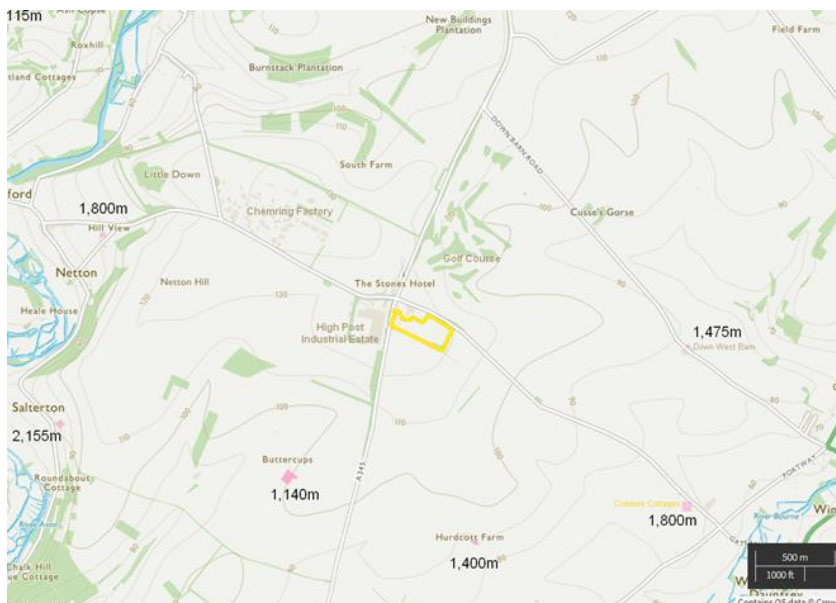
Extract from Magic Map

2115m to west River Avon SSSI & SAC / Lower Woodford Water Meadows SSSI 2350m

2785m to east Porton Meadows SSSI

Additionally ~1.48ha of Deciduous woodland adjacent to A345, south of the High Post Industrial Estate (not shown on map)

Nearest Residential Properties



All residential properties identified are over 1000m from the site. High Post Industrial Estate lies to the west across the A345, as do further industrial premises including a petrol station and a hotel at 115m from the edge of the proposed development to the north.



Receptor	Source	Harm	Pathway	Probability of Exposure	Consequence	Magnitude of Risk	Justification for risk	Risk Management	Residual Risk
Local population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Low	Medium	Low	Permitted waste types are inert and have a low potential to produce bioaerosols, but the activities will produce some particulate matter, however the nearest residences are 1km away so a low magnitude risk is estimated. There is potential for increased dust generation from permitted activities during prolonged dry periods e.g. summer months.	The site will be operated under an Environmental Management System. Including dust management & mitigation, which will be implemented on site throughout the works. Mitigation measures include: <ul style="list-style-type: none"> • Mobile plant exhausts and cooling fans to discharge above the horizontal to minimise dust generation; • A speed limit of 10mph strictly enforced on both made and unmade roads; to prevent re-suspension of materials; • Unmade access roads kept in good repair and wetted as required. • Daily inspections of visible dust emissions across the boundary and recording results from Daily Environmental Dust Logs; 	Not significant due to the measures employed via the EMS.
		Nuisance - dust on cars, clothing etc.	Air transport then deposition.	Low	Low	Low	As above. Distance from properties	<ul style="list-style-type: none"> • Adoption of a dust complaint procedure. 	Low and not significant due to the



							means however low risk.	Additional controls to be implemented during prolonged periods of dry weather.	measures employed via the EMS.
Local population, livestock and wildlife	Litter	Nuisance, loss of amenity and harm to animal health		Low	Low	Low	Local residents often sensitive to litter, however permitted waste types have low litter potential.	Provision for clearing litter arising from the activities from affected areas outside the site. Visual assessment maintained throughout the working day. Any windblown material to be cleared immediately.	Very low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Medium	Medium	Medium	Road safety, local residents often sensitive to mud on roads.	Appropriate measures include wheel cleaning equipment, clearing waste, litter and mud arising from the activities from affected areas outside the site, using road sweeper if necessary. The waste types are typically not liable to spillage and should be contained within the vehicles transporting waste.	Low and not significant due to the measures employed via the EMS.
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Low	Low	Local residents often sensitive to odour, however permitted waste types have low odour potential. Distance from properties.	Waste is inert, with no putrescible wastes permitted on site. Therefore, odour unlikely. Adherence to planning conditions and the waste acceptance procedure will ensure that only inert wastes are accepted.	Very low



Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Low	Medium	Low	Local residents often sensitive to noise and vibration. Distance from properties.	Noise management measures deployed through the EMS to minimise and prevent noise and vibration from site operations. Site operations will be limited and background noise level influenced by A class road and industrial activities. Noise mitigation measures include, but are not limited to, the following: <ul style="list-style-type: none"> • All vehicles, plant and machinery to be maintained in accordance with manufacture specifications; and fitted with and use of effective silencers; • Any site based vehicles will be fitted with white noise type low tonal reversing alarms; • Operating hours will typically be 07:30 to 18:00 hours Monday to Friday and 07 30 to 1300 Saturdays. 	Low and not significant due to the measures employed via the EMS.
Local human population	Scavenging animals and scavenging birds	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	Air transport and over land	Low	Medium	Low	Permitted wastes unlikely to attract scavenging animals and birds.	Adherence to planning conditions and the waste acceptance procedure will ensure that only inert wastes are accepted. Management system provides for monitoring	Very low



Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity.	Air transport and over land	Low	Medium	Low	Permitted waste types unlikely to attract pests.	of site conditions with provision to minimise and prevent those emissions.	Very 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	Low	Low	Permitted waste types are inert so any waste washed off site will add to the volume of the local post-flood clean-up workload, rather than the hazard.	The site is in Flood Zone 1. Management system identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances.	Very low
Local human population and / or livestock after gaining unauthorised access to the waste operation.	All on-site hazards: wastes; machinery and vehicles.	Bodily injury	Direct physical contact	Medium	Low	Low	Permitted waste types are inert therefore only a low magnitude risk is estimated.	Management system provides for site security measures to prevent unauthorised access. Operations also accord with current Health & Safety legislation	Low
Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Low	Low	Permitted waste types are inert and non-combustible and so only a low magnitude risk is estimated.	The waste acceptance procedure will ensure that only inert wastes (which are non-flammable) are accepted.	Very low

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Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff or fire fighters. Pollution of water or land.	As above.	Low	Low	Low	As above.	As above. Permitted activities do not include the burning of waste.	Low
All surface waters close to and downstream of site.	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Acute effects: oxygen depletion, fish kill and algal blooms	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Low	Low	Low	Unlikely due to nature of the operations and the measures in place.	No liquid wastes at site. The waste acceptance procedure ensures that no liquid, contaminated or non-inert wastes will be accepted.	Very low
All surface waters close to and downstream of site.		Chronic effects: deterioration of water quality	As above. Indirect run-off via the soil layer.	Low	Low	Low			Waste types are predominantly inert so harm is likely to be temporary and reversible.
Abstraction from watercourse downstream of facility (for agricultural or potable use).		Acute effects, closure of abstraction intakes.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Low	Low	Low	Watercourse must have medium / high flow for abstraction to be permitted, which will dilute contaminated run-off.		As above. Strict waste acceptance procedures in place to avoid contaminated waste being accepted; and the site is remote from any surface water.



Groundwater		Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Low	Low	Low	Inert waste is unlikely to cause contamination of groundwater by the very definition of what constitutes inert waste.	As above. The Environmental Management System provides for strict waste acceptance procedures to ensure only inert wastes are received on site, including rejection procedure for non-permitted waste.	Very low
Local human population	Contaminated waters used for recreational purposes	Harm to human health - skin damage or gastrointestinal illness.	Direct contact or ingestion.	Low	Medium	Low	Unlikely due to nature of the operations and the measures in place		Very low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Low	Low	Low	There are no protected sites within 2km of the boundary of the Site. The designated sites and their qualifying features are distant from the site and it is therefore unlikely that there will be any impact from the proposed works.	Mitigation measures are in place to manage any impacts associated with the work through waste recovery, as detailed in the above sections of this risk assessment.	Very Low