

Environmental Risk Assessment

Data & Information				Judgement			Action (By Permitting)		
Receptor	Source	Harm	Pathway	Probability of Exposure	Consequence	Magnitude of Risk	Justification for Magnitude	Risk Management	Residual Risk
Noise	Plant Equipment, Vehicle movement, crushing and screening operations.	Nuisance to residents, hearing damage	Air vibrations	Medium	Complaints leading to operation shut down, hearing loss of operators	Low	Off-site noise impact was reported to be low.	Earplugs to be worn by staff in close proximity to operational plant and equipment	Low
Groundwater – Principal aquifer.	Water run-off from stockpiled material.	Contamination of principal aquifer.	Spillage of liquids on site, leachate from waste, contaminated rainwater run-off.	High	Contamination of principal aquifer	Low	Permitted waste type is limited to 17 05 04 has a low potential to produce harmful leachate. The site is not situated within a Drinking Water Safeguard Zone (DWSZ) (Groundwater) or a Source Protection Zone (SPZ). There are no DWSZ or SPZ within a radius of 1km of the site	Hardstand under stockpile area to prevent migration of run-off through permeable surfaces. Spill containment procedures and kits are in place on-site.	Low
Surface water – drainage channel.	Water run-off from stockpiled material.	Contamination of surface waters.	Water run-off along the surface to drainage channels.	Low	Contamination of surface waters leading to the River Ashburn.	Low	Distance to the drainage channel (160m).	Hardstanding under stockpile area to prevent migration of run-off through permeable surfaces.	Low
local human population – Residents of town to the west.	Release of particulate matter (dust).	Harm to human health - respiratory irritation and illness. Eye irritation.	Airborne then inhalation or entering eyes.	Medium	Harm to human health - respiratory irritation and illness. Eye irritation.	Medium	Permitted waste type is limited to 17 05 04 has a low potential to produce bioaerosols. The activities may produce dust from the movement of vehicles and tipping operations, especially in dry and also windy weather.	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits. Prevailing winds are likely to blow dust and particulates away from the town.	Low

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Flora – Deciduous Woodland.	Release of particulate matter (dust).	Dust covering trees and ground cover.	Airborne.	High	Smothering of trees resulting in death.	Medium	<p>The activities may produce dust from the movement of vehicles and tipping operations, especially in dry and also windy weather.</p> <p>The site is separated from the deciduous woodland to the south by high banking and a row of coniferous trees acting as a barrier.</p>	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits. A row of non-deciduous trees (conifers) will act as a barrier between the site and the woodland.	Low
Local human population – Mud/debris on local roads (B3352).	Debris falling off haulage vehicles which arrive uncovered, Vehicles entering and/or leaving the site.	Road conditions.	Visual soiling, Road traffic accidents, Slips and falls	High	Risks to road users.	Medium	Vehicles can track debris onto the roadway creating slippery road conditions.	Vehicle sheeting and washing before leaving the site. Road sweeper, Sheeting of vehicles and Minimising material and vehicle movement, speed limits.	Low
Local human population – Public sports fields.	Release of particulate matter (dust).	Air quality.	Airborne.	High	Nuisance to public, Negative effects on human health.	Medium	Dust, fumes, and particulates affect human health during outdoor activities. Sports fields are within 50m of the site. Trees separating the site will act to mitigate against low-level dust blowing across the fields.	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits	Low
Human population – E & JW Glendinning Limited.	Release of particulate matter (dust).	parked vehicles and lowering of air quality.	Airborne.	High	Nuisance to public, Negative effects on human health.	Medium	<p>The prevailing wind blows east in the direction of Glendinning limited.</p> <p>The site likely creates its own airborne particles.</p>	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits	Low
Devon Express Wat (A38)	Debris falling off lorries which arrive uncovered,	Road conditions	Visual soiling, also consequent resuspension as airborne particulates	Medium	Risk to road users.	Medium	Vehicles can track debris onto the roadway creating slippery road conditions.	Road sweeper, Sheeting of vehicles and Minimising material and vehicle movement, speed limits	Low

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	Vehicles entering and/or leaving the site with mud on wheels, and tracking dust on to or off the site.								
Linhay Business Park	Release of particulate matter (dust)	Dust covering parked vehicles and lowering air quality	Airborne	Medium	Nuisance to public, Negative effects on human health	Medium	The prevailing wind blows eastwards, in the opposite direction of the business park.	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits.	Low
Infilled quarry (water).	Release of particulate matter (dust).		Airborne.	Medium	Negative effects on water quality.	Medium		Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits.	Low
Local human population – Residents of the town	Release of particulate matter (dust)	Duct covering parked vehicles and lowering of air quality	Airborne	Medium	Nuisance to public, Negative effects on human health.	Medium	The prevailing wind blows eastwards in the opposite direction of the residential estate	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits.	Low
Deciduous Woodland	Release of particulate matter (dust)	Duct covering trees and ground cover.	Airborne	Medium	Damage to habitat.	Medium	The secondary prevailing wind blows northwards in the direction of the woods.	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits.	Low
Local human population – South Dartmoor Community College	Dust, fumes, and particulates	Duct covering parked vehicles and lowering of air quality	Airborne	Medium	Nuisance to public, Negative effects on human health.	Medium	The secondary prevailing wind blows northwards in the direction of the woods.	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits.	Low

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Local human population – Ashmoor Sports Centre - SDMAT	Release of particulate matter (dust)	Duct covering parked vehicles and lowering of air quality	Airborne	Medium	Nuisance to public, Negative effects on human health.	Medium	The secondary prevailing wind blows northwards in the direction of the woods.	Water sprayers, Dust Suppression Bar, Minimising drop heights, Sheeting of vehicles and Minimising material and vehicle movement, speed limits.	Low
local human population – Ashburton & Buckfastleigh Hospital	Release of particulate matter (dust)	Duct covering parked vehicles and lowering of air quality	Airborne	Low	Nuisance to public, Negative effects on human health.	Low	Distance from the site (800m)	N/A	Low
Local human population – Skylark Nursery School	Release of particulate matter (dust)	Duct covering parked vehicles and lowering of air quality	Airborne	Low	Nuisance to public, Negative effects on human health.	Low	Distance from the site (930m)	N/A	Low
Human population – Parkers Farm Holiday Park	Release of particulate matter (dust)	Duct covering parked vehicles and lowering of air quality	Airborne	Low	Nuisance to public, Negative effects on human health.	Low	Distance from the site (>1km)	N/A	Low
Human population – Parkers Farm Cottages & Caravans	Release of particulate matter (dust)	Duct covering parked vehicles and lowering of air quality	Airborne	Low	Nuisance to public, Negative effects on human health.	Low	Distance from the site (>1km)	N/A	Low