

wardell-armstrong.com

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING, QUARRYING AND MINERAL ESTATES
WASTE RESOURCE MANAGEMENT



LLOYDS QUARRIES LIMITED

Maes Mynan Quarry

Environmental Permit Application

H1 Amenity Risk Assessment

October 2011

your earth our world



H1 AMENITY RISK ASSESSMENT FOR MAES MYNAN QUARRY, USE OF WASTE FOR RESTORATION AND CONSTRUCTION

H1 AMENITY RISK ASSESSMENT						
What do you do that can harm and what could be harmed			Managing the Risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
<i>What has the potential to cause harm?</i>	<i>What is at risk? What do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will you take to reduce the risk? If it occurs – who is responsible for what?</i>	<i>How likely is this contact?</i>	<i>What is the harm that can be caused?</i>	<i>What is the risk that still remains? The balance of probability and consequence</i>
Odour Inadvertent receipt of some odorous wastes	Houses in immediate local area	Air	Imported wastes for use in restoration are inert and non odorous. Waste acceptance criteria, including pre-acceptance and acceptance checks will be used to ensure odorous waste is not inadvertently accepted.	Low	Annoyance to residents	Very low
Noise and Vibration from plant movements and loading	Houses in local area are <50m from the boundary. However they are around 200m from the current waste operation and mineral processing area.	Air	Plant used to move the waste will be properly serviced and maintained to minimise noise. Operations carried out only within the working day.	Intermittent noise may occur during working day.	Annoyance to residents	Low
Fugitive Emissions to Air Dust from vehicle movements and deposited wastes	Houses in local area, adjacent agricultural land	Air	The site will be subject to visual inspections throughout the day. Any dust will be controlled by damping down of site roads and working areas with water using a bowser. Speed limits will be applied to minimise disturbance of dust. Site entrance road constructed to minimise dust emissions.	Low	Annoyance and potential irritation to eyes or respiratory tract if dust is emitted beyond site boundary in any quantity.	Low
Emissions to surface water	No point source emissions from the site.	Site run off	Surface water run-off will be directed to the lake within the void. There is no outlet but water loss will occur via natural evaporation and soak away.	Very low	-	Very low

H1 AMENITY RISK ASSESSMENT						
What do you do that can harm and what could be harmed			Managing the Risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
<i>What has the potential to cause harm?</i>	<i>What is at risk? What do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will you take to reduce the risk? If it occurs – who is responsible for what?</i>	<i>How likely is this contact?</i>	<i>What is the harm that can be caused?</i>	<i>What is the risk that still remains? The balance of probability and consequence</i>
Emissions to Groundwater	The site does not lie within a Groundwater Source Protection Zone	Soak away via natural strata	Only naturally occurring inert material excavated from the site and imported inert wastes will be deposited at the site. Strict compliance with waste acceptance criteria. These inert materials will pose no risk to groundwater (see Hydrogeological Risk Assessment).	Water may soak away	Low, all materials deposited occur either naturally on site or comprise imported, inert wastes	Low
Mud	Highway	Tracked on vehicle tyres	Wheel wash provided and roads swept as required	Low	Slippery road surface	Very low
Pests	Houses in surrounding area and adjacent agricultural land	Overland or in air	All materials are inert and will not attract vermin pests.	Low	Nuisance, potential spread of disease	Very low
Litter	Houses in surrounding area and adjacent agricultural land	Wind blown	Only inert materials are handled on site these will not give rise to litter.	Very low	Potential nuisance	Very low
Fuel spill	Groundwater	Soak away via natural strata	Fuel tanks bunded. Any spillage cleared immediately with absorbent material.	Low	Contamination of groundwater	Low
Slope failure	Internal to quarry	None	Quarry sides constructed to be stable. Regular inspections to ensure side slopes and stockpiles are stable. Stockpiles located to minimise the risk to workforce.	Low	Injury to site staff/visitors, damage to nearby property	Low