Procedure: JSY43

Title: Amenity Management – Prevention of Dust, Mud and Noise Emissions

GraniteProducts

1 Purpose: To summarise how the site design, monitoring and management minimises the likelihood of amenity impacts from mud, dust and noise.

2	Procedure	Responsible Person	Record
2.1	The prevention of amenity impacts from mud, noise and dust emissions is achieved through a combination of measures as follows: • design and construction • day to day management and inspection • maintenance and repair • review of performance and implementation of necessary improvements	Information	-
2.2	Performance review considers any incidents and near misses that have arisen, public complaints and breakdown of control measures employed.	Information	-
	Prevention of mud being trafficked beyond the site boundary		
2.3	Processing and recycling areas are located on a granite rock base with compacted granular surface and the access road down into the processing and recycling area is part concrete but mostly compacted granular quarry derived material. The internal access roads around the weighbridge, office, block yard and concrete plant are concrete roads.	Information	-
2.4	All vehicles access the site off the public highway and hence are clean. The areas they are permitted to access (those above) are not inherently muddy surfaces hence the potential for vehicles to become muddy is very low. Waste customers tip off at the waste reception by the recycling and mineral processing area and they will not access the future landfill area, therefore these vehicles are not considered to require any additional/different wheel cleaning to aggregate vehicles at this stage. However, should this prove not to be the case, arrangements will be reviewed in line with 2.2 above and additional provision for vehicle cleaning e.g. a wheel wash, will be installed on site where necessary. To date a formal wheel wash has not been shown by risk assessment, inspection findings, incidents, near miss reports or complaints, to be necessary.	Information	-
2.5	All internal roads/yards are cleaned using the site owned tractor and bowser at least once a week and a road sweeper is used if conditions dictate (concrete roads only),	Site Manager	Daily Inspection Record
2.6	A loading shovel bucket is also used to scrape any residues from road surfaces if conditions require. This is mostly under winter conditions and on non-concreted roads unsuitable for the road sweeper.	Site Manager	Daily Inspection Record
2.7	All roads and yards are inspected throughout each working day and cleaning/additional cleaning is carried out as necessary. Any	Site Manager	Daily Inspection Record

	deterioration in the surface of the roads are addressed as a short term urgent repair if necessary, or as part of planned maintenance in line with BG4.2 Plant and Equipment Maintenance.		
2.8	Drivers use a dedicated area, draining to the settlement wedge pits, to hose down their wheels where necessary.	Site Manager	-
	Minimisation of dust emissions		
2.9	Block making is a wet/semi wet batch process only and ready mixed concrete is dry/semi-wet and wet batch depending on the product specified. The potential for dust is minimised due to nature of product/batch method.	Information	-
2.10	Processes utilising cementitious materials are undertaken in enclosed spaces i.e. by bespoke cladding (concrete plant) or in a permanent building (block plant) and the mixing of concrete products takes place inside a closed mixer. There is a procedure in place for managing cementitious deliveries including specified maximum delivery pressure and full supervision throughout.	Information	-
2.11	The concrete plant is fitted with spray bars at the mixer truck/customer loading points. Automated water sprays are installed in the main yard by the office/weighbridge. The mineral processing plant is fitted with a foam/mist system on the secondary and tertiary crushers. Additional water sprays are utilised in the mineral processing area if conditions dictate.	Information	-
2.12	Where not already covered by water sprays, all areas including non-concreted roads and stockpiles are dampened down using the tractor and bowser as required. Site rules are enforced with respect to speed limits for both customers and site staff.	Site Manager	-
2.13	All processing and general areas are inspected for dust emissions throughout the working day. Any significant occurrence is rectified using the measures outlined above.	Site Manager	Daily Inspection Record
2.14	All plant and equipment including specific dust control equipment are maintained in accordance with a planned preventative maintenance schedule in line with BG4.2 Plant and Equipment Maintenance, reflecting equipment manufacturers requirements as a minimum.	Site Manager	Maintenance Records
	Minimisation of noise emissions		
2.15	Permitted operational hours, as specified in the site's planning and other permissions are adhered to. These are 7.00am – 5.00pm Monday to Saturday only) with the following exceptions: a. Blasting only takes place during specified hours (10.00am – 10.30am or 1.00pm – 2.00pm daily Monday to Friday) b. Waste operations will only take place during 7.30am – 6.00pm Monday to Friday and 8.00am to 1.00pm on Saturday.	Site Manager	Site diary, blast records

2.16	Blasting operations are carried out in accordance with Procedure JSY10 WI05 (flow chart) to minimise ground vibration, air over pressure, noise and dust generation from blasting (max vibration design level of 12mm/sec peak particle velocity and compliance limit at nearest sensitive premises of 6mm/sec peak particle velocity at 95% confidence). All blasts are monitored for vibration and overpressure and results are submitted to the States of Jersey at least annually.	Site Manager	Results of vibration & overpressure monitoring
2.17	Fixed plant is fitted with acoustic enclosures (e.g. crushers) or is cladded (concrete plant) or housed (block plant) to minimise external noise emissions. Mobile plant is fitted with intermittent/white noise reversing alarms.	Information	-
2.18	Noise measurement is undertaken annually over two working days normal activity on the eastern and western boundaries at the points closest to occupied residences to confirm the noise limits specified in site permissions are being adhered to. The results are forwarded to Environmental Health within 28 days.	Site Manager	Results of noise monitoring
2.19	Site operatives are trained in noise and vibration awareness and in the operation of plant so as to minimise noise and vibration.	Site Manager	Training Records
2.20	Daily auditory inspections are carried out to monitor for unusual or excessive noise and to prompt any necessary action required in order to ensure satisfactory conditions.	Site Manager	Inspection Records
2.21	All site plant and equipment including that for noise/vibration control and monitoring are maintained in accordance with a planned preventative maintenance schedule in line with BG4.2 reflecting manufacturers requirements as a minimum.	Site Manager	Maintenance Records
	Occurrences of Dust, Mud and Noise Emissions		
2.22	Any uncontrolled occurrences of dust, mud and noise emissions, or complaints, are recorded as near misses or incidents as appropriate. They are assessed/investigated in line with the business investigation process.	Site Manager	Near Miss, Incident Report on IFS

Reference Documents

Licence for the storage and use of explosives (renewed annually)
Planning permission P/2006/1273 - Deepening of the quarry on western part of the site
Planning Permission P/1996/1041 - Extension of existing granite quarry into fields 960, 961, 962 & 967A with associated landscaping
Planning Permission P/2012/0121 - Recycling and Restoration of Western Quarry with inert waste (not full title)
BG4.2 Plant and Equipment Maintenance
JSY10 WI05 Blasting