

RISK ASSESSMENT RECORD FORM**KEELE UNIVERSITY****Earth Sciences and Geography****Area G26 - Crushing Room****Assessor(s)** : DW Emley, I Wilshaw**Date** 5th February 2005**General Note**

This room contains heavy machinery used to crush rocks to a powder. Its use is restricted to staff, postgraduates and undergraduates (under supervision); all of whom must have received training by an approved member of staff. **Use of the room and its equipment is covered by an in-house laboratory manual. There is a separate leaflet on Risk and Risk reduction.**

STEP 1 List significant hazards, include processor, activity, area	STEP 2 List groups of people especially at risk from the significant hazards identified	STEP 3			STEP 4 List the risks which are not adequately controlled and the action you will take where it is reasonably practicable to do more. Include level of priority for your Action Plan.	STEP 5 Date of next review
		Extent of harm 1 - 3	frequency of exposure 1 - 3	Risk Score 1 - 9		
Dust High levels of airborne dust generated by crushing equipment and when emptying sieves	Operatives	3	3	9	Dust extraction equipment installed; use of personal dust masks obligatory.	Dust lying on surfaces poses low risk but surfaces need regular cleaning
Noise Significant noise generated by crushing equipment and sieve shaker	Operatives	1	3	3	Ear defenders are provided	
Lifting Hazard Tungsten carbide ring mill is very heavy; possibility of dropping on foot or straining back	Operatives	3	3	9	Instruction given on its safe use; use discouraged in favour of lighter agate ring mill unless there is no alternative.	
Flying rock shards Splinters of rock from splitter	Operatives	2	3	6	Guards in place; operatives obliged to wear face shield.	
Magnetic fields Strong magnetic fields from magnetic separator. At full power and 30cm the level is 10 gauss. At 60cm it is 1.5 gauss and in the corridor it is background.	Anyone with a pacemaker	3	3	9	5 gauss is the safe limit for pacemaker wearers. To reduce risk a warning symbol is placed on door to room and sign to say when machine in use.	

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Crushing Hazard Hand could get crushed in rock splitter	Operatives	2	3	6	Blades of splitter will not close completely; training given in its correct use.	Check jaw separation