

Authorised by:

General Manager - Safety & Personnel

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores		Со	Core Drill - Electric		Approved By: Steven Jose		
Equipment Location:		Equipment:				Signature:	Signature:	
		Manufacturer Details	Va	rious				
Hazard		Action Requir Yes/No		Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treat Report Form)	ment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglement								
Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?			□ No □ St □ Ist □ Est □ Est □ Est □ Ac		⊠ Elimination □ Substitution ☑ Isolation □ Engineering ☒ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into work area with motor running Do not do any servicing or maintenance with motor running Wear appropriate PPE whilst operating this machine		MEDIUM
Crushing				II.	1			1
 Can anyone be crushed due to: Material falling off the plant? Uncontrolled or unexpected movement of the plant or its load? Lack of capacity for the plant to be slowed, stopped or immobilized? The plant tipping or rolling over? Parts of the plant collapsing? Coming in contact with moving parts of the plant during testing, inspection, use, maintenance, cleaning or repair? Being thrown off or under the plant? Being trapped between the plant and materials or fixed structures? Other factors? 				HIGH	⊠ Elimination □ Substitution □ Isolation □ Engineering ☑ Administration ☑ PPE	Follow manufacture Obey all warning de Ensure both the ma operator are stable Do not operate the protective guards a Keep hands and feand moving parts a injury if contacted Ensure that the modis in the off position disconnected before or making adjustments.	ecals achine and the machine unless all re in place et clear of rotating s they will cause tor operation switch and lead is e removing guards	MEDIUM
	bing and Puncturing				1 =	T =		
Coming	cut, stabbed or punctured due to? in contact with sharp or flying objects? in contact with moving parts of the plant during	⊠ Yes □ No		MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration	Follow manufacture Obey all warning de Do not lean or reac	ecals	MEDIUM

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testing, inspection, operation, maintenance, cleaning or repair of the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? The mobility of the plant? Uncontrolled or unexpected movement of the plant? Other factors?			⊠ PPE	with motor running Do not do any servicing or maintenance with motor running Ensure all guards and fixtures are in place Ensure machine is switched off before adjusting depth or changing core drill Use the correct speed for size of core drill (refer to operator manual). Any increase/decrease may result in personal injury and damage to the machine or core Only use a diamond impregnated core drill. Ensure appropriate PPEs are used (e.g. protection for eyes, hearing and footwear)	
Shearing					
Can anyone's body parts be: Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
Friction		1	<u> </u>		
Can anyone be burnt, gain abrasions etc. due to: Contact with moving parts or surfaces of the plant, or material handled by the plant?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into work area with motor running Do not do any servicing or maintenance with motor running Allow motor and other components to completely stop & cool before servicing	LOW
Striking		•			
Can anyone be struck by moving objects due to: Uncontrolled or unexpected movement of the plant or material handled by the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? Mobility of the plant?	⊠ Yes □ No	MEDIUM	⊠ Elimination □ Substitution □ Isolation ⊠ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals The front, underneath and rear of the drilling area must be protected so that persons or equipment cannot be harmed or injured by falling parts or	LOW

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Other factors? High Processor Floring				drilling sludge. Drilling cores must be secured against falling. After mounting, check the anchoring of the drill motor. The drill motor must be securely fixed to the guide support. Ensure appropriate PPE is worn when operating this machine	
High Pressure Fluid	Yes	1	☐ Elimination		T
Can anyone come into contact with? Fluids under high pressure in normal use, in the instance of plant failure?	☐ Yes ☑ No		□ Substitution □ Isolation □ Engineering □ Administration □ PPE		
Electrical		•	<u>. – </u>		
Can anyone be injured by electrical shock or burnt due to: The plant contacting live electrical conductors? Plant working close to electrical conductors? Overload of electrical circuits? Damaged or poorly maintenance electrical leads or cables? Damaged electrical switches? Water near electrical equipment? Lack of isolation procedures? Other factors	⊠ Yes □ No	HIGH	⊠ Elimination □ Substitution ☑ Isolation □ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Protective devices should only be removed when the device is turned off, disconnected from the mains and at a standstill. Covers in particular should only be removed and refitted by authorised personnel Ensure that the material to be drilled/cut does not contain any "live" electrical cables, gas or water services Always wear the appropriate PPE when operating this machine Ensure electrical cabling is kept away from water and moisture	HIGH
Explosion					
Can anyone be injured by fuels such as gases, vapors, liquids, dusts or other substances being ignited triggered by the operation of the plant or by materials handled by the plant?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Remove all combustible and flammable material from work vicinity Ensure air flow	LOW
Slipping, Tripping and Falling					
Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation	Follow manufacturers' instructions Obey all warning decals	LOW

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		 ☑ Engineering ☑ Administration ☑ PPE 	Wear appropriate footwear Keep work area clean and clear of obstructions The sludge resulting from drilling is very slippery. Suitable steps must be taken (removal or cordoning off) so that persons do not slip and injure themselves. Remove excess water using wet/dry vacuum cleaner and/or mop Display warning signs if pedestrian needs to share area and have spotter	
☐ Yes ☑ No		☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE		
			,	
☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Ensure adequate ventilation in sealed-off areas. Position and operate in well ventilated areas only	LOW
	No No Yes No Yes	No Yes No Yes No MEDIUM	Yes Elimination Substitution Substitution Square Squa	Administration PPE

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Ergonomics					
Can anyone be injured due to: Poorly designed seating? Repetitive body movements? Constrained body posture or the need for excessive effort? Design deficiency causing physical or personal stress? Inadequate or poorly placed lighting? Lack of consideration given to human error or human behavior? Mismatch of the plant with human traits and natural limitations? Other factors?	⊠ Yes □ No	LOW	 ☑ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☐ PPE 	Follow manufacturers' instructions Obey all warning decals Take regular breaks/rests Exercise/stretch regularly Do not operate beyond your personal capabilities Observe and use proper manual handling techniques	LOW
Transportation		I	I		l .
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure equipment, attachments and sundry items are securely tied down Always wear the appropriate PPE when operating this machine	LOW
Operational					
Can anyone be injured by this equipment	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure equipment is on stable ground and clear of obstructions Ensure adequate ventilation Ensure all safety guards and fixtures are in place Ensure power and switch switched off before making any adjusts Ensure hold-to-run controls provided for machine are working properly Ensure handles and other adjustable parts are set right for the operator Ensure appropriate PPEs are used (e.g. protection for eyes, hearing and footwear)	LOW

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Other Hazards						
Can anyone be injured of Chemicals?	or suffer ill-health from exposure to:	⊠ Yes □ No	LOW	⊠ Elimination □ Substitution □ Isolation ⊠ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Operate in well-ventilated areas only Check for utilities (gas, water, electrical) in the drill zone BEFORE operation Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements Maintain equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using equipment where it is reasonable to foresee further risk to persons or damage to equipment Always wear the appropriate PPE whilst operating this machine – this includes safety hat, safety gloves, shoes, hearing and respiratory protection	LOW
Further Comments:	A Specific Risk Assessment on site mu	st been undertal	cen prior to pla	nt operation?	, , , , , , , , , , , , , , , , , , ,	
	This equipment must only be driver				lers of the appropriate license	
	•		-			
Checklist:	☑ Manufacturers' manuals referenced☑ Copy kept in Master Hires' Risk Management	ent File				

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Hazard / Risk Matrix

Reference: Workplace Health and Safety Queensland - Risk Assessment - Supplement 2
Risk Management Code of Practice 2007

Step 1 Determine Likelihood – What is the possibility of the event happening?

	Criteria	Description
Almost certain	Almost certain Expected in most circumstances. Event is a common problem	
Likely	Will probably occur in most circumstances.	Event is known to have occurred at this site or it has happened
Possible	Might occur at some time	Event could occur at the site or I've heard of it happening
Unlikely	Could occur at some time	Event is not likely to occur at the site or I have not heard of it happening
Rare	May occur only in exceptional circumstances	Event is practically impossible.

Step 2 Determine Consequence - What will be the result if it happens?

Classification	Example detail description
Insignificant	No injuries
Minor	First aid treatment only; spillage contained at site.
Moderate	Medical treatment; spillage contained but with outside help.
Major	Extensive injuries; loss of production
Catastrophic	Death; toxic release of chemicals

Step 3 Determine the risk score

	CONSEQUENCE						
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic		
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute		
Likely	2 Medium	3 High	3 High	4 Acute	4 Acute		
Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute		
Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute		
Rare	1 Low	1 Low	2 Medium	3 High	3 High		

Step 4 Record risk score against the job sequence steps

(Note - Risk scores have no absolute value and should only be used for comparison and to engender discussion.)

Score	Action
4 A: Acute	ACT NOW – Urgent – do something about the risks immediately. Requires immediate attention.
3 H: High	Highest management decision is required urgently.
2 M: Medium	Follow management instructions.
1 L: Low	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.

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