Drilling- Diamond Drilling

Facility:	Written By:	Approved By:	Date Created:	Date of Last Revision

Hazards Present:	PPE or Devices Required:	Additional Training Required:
Pinch Points	Hand Protection	First Aid with CPR
Lacerations	Steel Toed Boots	
Noise Hazard	Hard Hat	
Rotating Parts	Hearing Protection	
	Eye Protection	

Safe Work Procedure:

1) Ensure rotation guard is closed.
2) Ensure sufficient water supply is getting to the bit face.
3) Start rotation with rod string approximately 1" from bottom.
4) Increase rotation speed to a smooth rotation with minimal vibration
5) Engage slow feed lever and adjust feed pressure
6) Adjust torque with the use of torque limiter, drilling polymers and rod grease.
7) The event of a "torque spike" is generally due to insufficient water volume remaining at the bit for current drilling techniques, when/if this occurs as a driller you MUST be at the controls ready to pull rods off bottom and prevent destruction to the bit.
8) Normal drilling should not cause torque to exceed 3000lbs.
9) Monitor head pressure, water pressure and toque. Combinations of the increase and decrease of these values must be interpreted by the driller to determine correct settings to drill that particular ground.
10) Once tube is full or if a "blocked run" occurs remove the drive rod, retrieve the core tube, pump and lock another tube and continue drilling
11) Remember: "If the rods aren't going down, they are coming up!"

If an emergency situation occurs while conducting this task, or there is an equipment malfunction, engage the emergency stop and follow the lock out procedure

REPORT ANY HAZARDOUS SITUATIONS TO YOUR SUPERVISOR

Guidance Documents/Standards:	This Safe Work Procedure will be reviewed any time the task, equipment or materials change and at a minimum of every three years
MB Workplace Safety & Health Act & Regulations: Part 2.1 General Duties Part 5 First Aid Part 6 Personal Protective Equipment Part 12 Hearing Conservation & Noise Control	Reviewed By WSH Committee: Date: