


HAZARD / WORK ACTIVITY ASSESSED	360 Excavators and 180 Backhoe loaders
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Hazard (something with the potential to cause harm)	Risk rating prior to control			Who may be harmed					Control Measures	Risk rating after control		
	Severity	Probability	Risk	Operator	Employee	Visitor	Public	Sub-cont		Severity	Probability	Risk
Excavator / Loader - overturning	4	2	8	x	x				Stabilisers and front bucket to be lowered to the ground to ensure stability. Operator not to create overhangs by undercutting.	4	1	4
Materials – dropping from the bucket or front shovel	3	2	6		x		x		Safe working loads not to be exceeded. No one to work within working radius without driver's permission. Where plant is working adjacent to public operator is not to slew over their heads with bucket or suspended load.	3	1	3
Bucket / shovel – dropping suddenly	3	2	6		x				No one to work within working radius without driver's permission.	3	1	3
Machine – persons being struck or trapped by	4	2	8	x	x				No one to work within working radius without driver's permission.	4	1	4
Underground Cable – striking with equipment	4	2	8	x	x				Area of works to be checked with CAT scanner, prior to excavation taking place. Regular sweeps of the ground in open excavations by a service detector are to be made at maximum 300mm depth intervals.. Full details of any underground services to be obtained prior to commencement of work. Excavation in areas within 0.5m of services must be dug with hand tools only. Any services encountered should be isolated before continuing excavation.	4	1	4

### SAFETY METHOD STATEMENT

1. Prior to excavation areas of works to be CAT scanned in the presence of the driver. Regular sweeps of the ground in open excavations by a service detector are to be made at maximum 300mm depth intervals. If any services are encountered excavation should be repositioned. If not possible service should be isolated.
2. If plant is working or travelling through a confined area, a banks man must be provided.
3. No one is to approach the machine's working radius without warning the driver first.
4. No one is to attempt to work within the machines working radius without driver permission.
5. Where plant is working adjacent to people, operator is not to slew over their heads with bucket or suspended load.
6. Safe working load of machine is not to be exceeded, e.g. whilst lifting or by fitting buckets larger than the manufacturers recommended size.
7. Whilst operating at high workface, machines to be positioned at 90 degrees to face to allow quick retreat. Operators are not to create overhangs by under-cutting as machines stability would be affected.
8. Great care to be taken by machines working on a gradient to ensure machine stability.
9. With 180 backhoe machines: stabilisers and front bucket to be lowered to the ground to ensure stability when backhoe is in use – operator to maintain this by frequent checks / adjustments.
10. When front bucket is in use, backhoe to be parked properly and locked in place.

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Severity		Probability		Risk Rating		
1	No Injury, property damage	1	Very Unlikely	Severity X Probability = <b>1 to 5</b>	<b>Low</b>	<b>Y</b> – acceptable risk, work can start
2	Minor Injury	2	Unlikely			
3	+3 Day Absence	3	Likely	Severity X Probability = <b>6 to 14</b>	<b>Med</b>	<b>Y or N</b> – may need further consideration
4	Major Injury	4	Very Likely			
5	Death	5	Virtually Certain	Severity X Probability = <b>15 to 25</b>	<b>High</b>	<b>N</b> – Unacceptable risk Do not start work