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| HAZARD / WORK ACTIVITY ASSESSED | <u>Moling (Water Mains Replacement)</u> |
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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 |
| Noise – exposure to noise for long periods of time | 2 | 2 | 4 | x | x | x | x | x | Ear defenders must be worn at all times when operating the Moling equipment and compressor. | 1 | 2 | 2 |
| Services – striking of services (explosion / fire) | 4 | 2 | 8 | x | x | x | | x | Area of works, Excavation pits, and route of Moling must be assessed and CAT scanned prior to any works commencing. Any plans or full details of any underground services must be obtained and reviewed before starting excavations or Moling. (Please also refer to RM18 Working in and with excavations) | 4 | 1 | 4 |
| Compressed air and hydraulic fluids – contact with skin (hose bursting) | 3 | 2 | 6 | x | x | | | x | Only competent personnel must operate machines and check it is properly maintained on a regular basis. Full PPE must be worn at all times when operating the Moling machine. | 2 | 1 | 2 |
| Open excavations – falling in / injury | 3 | 3 | 9 | x | x | x | x | x | Open excavations must always be barriered off either using rigid barriers, barrier tape, or bridged over with Road Plates or pedestrian boards. | 3 | 1 | 3 |

SAFETY METHOD STATEMENT

1. Prior to any excavations the area must be assessed and CAT scanned, all services must be identified and any plans must be obtained.
2. All the correct PPE must be selected and worn at all times.
3. Compressors and any hydraulic Moling machinery must be regularly checked and maintained.
4. Any open excavations must be made safe by erecting rigid barriers, use of barrier tape, or bridged over using road plates or pedestrian boards.
5. Ensure that all hoses are the right size, type, and length. Hoses must be kept away from corrosive materials and protected from any vehicular traffic. Always keep hoses clean and well maintained.

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| | Content collaborators: | Senior engineering team & MD | | |
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| Severity | Probability | Risk Rating | | |
|------------------------------|---------------------|--|-------------|---|
| 1 No Injury, property damage | 1 Very Unlikely | Severity X Probability = 1 to 5 | Low | Y – acceptable risk, work can start |
| 2 Minor Injury | 2 Unlikely | | | |
| 3 +3 Day Absence | 3 Likely | Severity X Probability = 6 to 14 | Med | Y or N – may need further consideration |
| 4 Major Injury | 4 Very Likely | | | |
| 5 Death | 5 Virtually Certain | Severity X Probability = 15 to 25 | High | N – Unacceptable risk Do not start work |