

## Risk Assessment

Likelihood \*L

1 = Improbable

2 = Remote

3 = Possible

4 = Probable

5 = Likely

Severity \*S

1 = No Injury

2 = Minor Injury

3 = 3-day Injury

4 = Major Injury

5 = Fatality

|   |   |    |    |    |    |
|---|---|----|----|----|----|
| 5 | 5 | 10 | 15 | 20 | 25 |
| 4 | 4 | 8  | 12 | 16 | 20 |
| 3 | 3 | 6  | 9  | 12 | 15 |
| 2 | 2 | 4  | 6  | 8  | 10 |
| 1 | 1 | 2  | 3  | 4  | 5  |
|   | 1 | 2  | 3  | 4  | 5  |

Risk = Likelihood x Severity

|     |        |      |
|-----|--------|------|
| Low | Medium | High |
|-----|--------|------|

| Hazard                     | Effect                | Persons at Risk      | Risk |   |     | Control Measures  | Residual Risk |   |     |
|----------------------------|-----------------------|----------------------|------|---|-----|---|---------------|---|-----|
|                            |                       |                      | L    | S | L*S |   | L             | S | L*S |
| Plant and Vehicle movement | Hit by Moving Vehicle | Employee             | 3    | 3 | 9   | PEDESTRIAN AND VEHICLE SEGREGATION WHERE POSSIBLE USE OF BANKSMAN WHERE REQUIRED HI VIS CLOTHING TO EN471 FLASHING AMBER BEACONS DISPLAYED ON VEHICLES DRIVER TRAINING EMPLOYEE AWARENESS AND TRAINING        | 1             | 3 | 3   |
| Site or public traffic     | Hit by Moving Vehicle | Employee             | 3    | 3 | 9   | SIGNING AND GUARDING TO SAFETY AT STREET WORKS AND ROAD WORKS A CODE OF PRACTICE (TRAFFIC SIGNS MANUAL). TRAFFIC MANAGEMENT SYSTEM TO BE USED AND ADHERED TO WHERE NECESSARY. EMPLOYEE AWARENESS AND TRAINING | 1             | 3 | 3   |
| Pedestrians on Site        | Hit by Moving Vehicle | Member of the public | 3    | 3 | 9   | CLEAR PEDESTRIAN ROUTES TO BE IDENTIFIED ON TRAFFIC MANAGEMENT PLAN BARRIERS AS APPROPRIATE   | 1             | 3 | 3   |

| Hazard  | Effect                       | Persons at Risk | Risk |   |     | Control Measures   | Residual Risk |   |     |
|---|------------------------------|-----------------|------|---|-----|--|---------------|---|-----|
|   |                              |                 | L    | S | L*S |  | L             | S | L*S |
| Noise from plant or tasks                               | Noise induced hearing loss   | Employee        | 3    | 2 | 6   | NOSIE ASSESSMENT FOR MACHINERY AND EQUIPMENT TO COMPLY WITH NATIONAL STANDARDS. HEARING PROTECTION SHOULD EQUIPMENT BE ABOVE 80DBA   | 1             | 1 | 1   |
| Poor Working Environment (Mud, Dirty, Dust)             | Eye Injury, Stomach Bug etc. | Employee        | 3    | 4 | 12  | GOOD HOUSEKEEPING ON SITE GOOD PERSONAL HYGIENE USE OF PPE - GLOVES, BOOTS, GOOGLES, HEARING PROTECTION  | 1             | 4 | 4   |
| Working Near Overhead Powerlines                        | Electrocution/D eath         | Employee        | 3    | 5 | 15  | COMPETENT OPERATORS TRAINED OPERATORS DIAGRAMS AND PLANS OF SERVICES FULL CAT SCAN WHERE MORE THAN 1 OPERATOR WORKING ON THE SAME SYSTEM ALL SHALL LOCK AND TAG ONTO THE FEEDER PILLAR | 1             | 5 | 5   |
| Vibrating Equipment                                     | Hand Arm Vibration Syndrome  | Employee        | 3    | 3 | 9   | ASSESSMENT OF VIBRATION LEVELS ANTI VIBRATION HANDLES FITTED TO BREAKER/EQUIPMENT  | 1             | 3 | 3   |
| Bursting Hot and/or Pressurised Oil Hydraulic Pipelines | Burns/Scalds                 | Employee        | 3    | 4 | 12  | WELL MAINTAINED EQUIPMENT VISUAL INSPECTION  | 1             | 4 | 4   |
| Bursting of Compressed Air Hose                         | Explosion                    | Employee        | 3    | 4 | 12  | PRESSURE REGULATED TO SAFE LEVELS, SECURITY WIRE FITTED BETWEEN BREAKER AND HOSE TO AVOID "SNAKING" OF ACCIDENTALLY DISCONNECTED HOSE UNDER PRESSURE                                   | 1             | 4 | 4   |

| Hazard   | Effect                                      | Persons at Risk | Risk |   |     | Control Measures  | Residual Risk |   |     |
|--|---|-----------------|------|---|-----|---|---------------|---|-----|
|  |   |                 | L    | S | L*S |   | L             | S | L*S |
| Excavator in Contact with Underground Services | Electrocution, Explosion, Water Mains Burst | Employee        | 3    | 3 | 9   | IDENTIFY AND CONFIRM SERVICES PRIOR TO WORK COMMENCING, PERMIT TO DIG IF REQUIRED   | 1             | 3 | 3   |
| Dust   | Respiratory Irritation                      | Employee        | 3    | 3 | 9   | USE WATER OR SIMILAR DUST SUPPRESSANT MEASURE WHERE APPLICABLE USE OF RESPIRATORY PROTECTION  | 1             | 3 | 3   |
| Inexperienced Drivers                          | Out of Control Plant, Hit by Moving Vehicle | Employee        | 3    | 4 | 12  | PEDESTRIAN AND VEHICLE SEGREGATION WHERE POSSIBLE USE OF BANKSMAN WHERE REQUIRED SKILLED OPERATORS TO CITB, SPCS OR EPIC STANDARD INCLUDING WHERE APPROPRIATE NVQ LEVEL 2 SPECIALIST PLANT OPERATIONS EMPLOYEE AWARENESS AND TRAINING | 1             | 3 | 3   |
| Raised Bodies                                  | Collapse/Entrapment                         | Employee        | 3    | 3 | 9   | USE OF CORRECT PROPS FOR LORRY BODIES, EXCAVATOR ARMS ETD EMPLOYEE AWARENESS AND TRAINING   | 1             | 3 | 3   |
| Removed Guards                                 | Entrapment, Physical Injury                 | Employee        | 3    | 3 | 9   | ENSURE EQUIPMENT IMMOBILISED BEFORE GUARD REMOVAL LOCK OUT, TAG OUT   | 1             | 3 | 3   |
| Refueling                                      | Fire/Explosion                              | Employee        | 3    | 4 | 12  | NO SMOKING FIRE EXTRINGUISHER TO BE DEPLOYED USE OF CORRECT FUELLING APPLIANCE TO AVOID SPLASES MOBILE PLANT TO BE FUELLED FROM BOWSERS WHERE POSSIBLE  | 1             | 4 | 4   |

| Hazard                                   | Effect   | Persons at Risk | Risk |   |     | Control Measures   | Residual Risk |   |     |
|--|--|-----------------|------|---|-----|--|---------------|---|-----|
|  |  |                 | L    | S | L*S |  | L             | S | L*S |
| Reversing Vehicles                       | Hit by Moving Vehicle                                  | Employee        | 3    | 4 | 12  | PEDESTRIAN AND VEHICLE SEGREGATION WHERE POSSIBLE USE OF BANKSMAN WHERE REQUIRED HI VIS CLOTHING TO EN471 FLASHING AMBER BEACONS DISPLAYED ON VEHICLES, DRIVER TRAINING, EMPLOYEE AWARENESS AND TRAINING   | 1             | 3 | 3   |
| Excavations                              | Falls from Height, Collapse of Trench, Personal Injury | Employee        | 3    | 3 | 9   | TRENCH SHORING BARRIERS COMPETENCY EMPLOYEES   | 1             | 3 | 3   |
| Debris and Equipment in the Working Area | Slips, Trips and Falls                                 | Employee        | 3    | 4 | 12  | Ensure all walkways are free from trip hazards. All personnel to wear laced safety footwear No walking on batters, use designated access routes. Keep access routes clear. Good housekeeping to be maintained at all times Park vehicles at suitable location to welfare facility. Provide suitable fencing, signing and guarding to the working area as necessary. Use designated/ proper access to enter and exit plant. | 1             | 4 | 4   |

| Hazard                          | Effect  | Persons at Risk      | Risk |   |     | Control Measures  | Residual Risk |   |     |
|---------------------------------|---|----------------------|------|---|-----|---|---------------|---|-----|
|                                 |   |                      | L    | S | L*S |   | L             | S | L*S |
| Environmental Impact            | Emission to Air, Water or Groundwater, Damage to Flora and Fauna, Use of Fossil Fuels, Nuisance to Neighbours | Member of the public | 3    | 1 | 3   | Operative to be trained and supervised. Careful excavation in good weather conditions Frequent Vehicle and plant maintenance Careful operations near trees and hedgerows. Frequent vehicle and plant maintenance. Noise mitigation methods employed as required. Noise monitoring Refuel as much as is practical in the yard. All fuel bowzers to carry adequate spill kit and granules, and funnels. Refuelling only to be carried out by designated person. Refuelling not to take place within 30m of a watercourse/drain Observe Traffic Management Plan, Dust management, observe agreed working hours | 1             | 1 | 1   |
| General Arrangements            | General Safety  | Employee             | 3    | 3 | 9   | ALL EMPLOYEES/ CONTRACTORS/ VISITORS TO ATTEND SITE INDUCTION ALL EMPLOYEES/ CONTRACTORS/ VISITORS TO LOG INTO THE DAILY SITE REGISTER ALL PERSONNEL TO COMPLY WITH SITE RULES SITE SUPERVISOR TO DEVELOP AND SHARE SCOPE OF WORKS RAMS TO BE COMMUNICATED TO RELEVANT PERSONNEL  | 1             | 1 | 1   |
| Working with Electrical Systems | Electrocution/E xplosion/Fire   | Employee             | 3    | 4 | 12  | COMPETENT ELECTRICIAN Only qualified electricians with ECS cards to work on electrical systems PERMIT TO WORK TO BE OBTAINED FROM CLIENT All supplies to be locked off unless the system IS BEING tested and commissioned   | 1             | 4 | 4   |

| Hazard                                       | Effect  | Persons at Risk | Risk |   |     | Control Measures  | Residual Risk |   |     |
|--|---|-----------------|------|---|-----|---|---------------|---|-----|
|  |   |                 | L    | S | L*S |   | L             | S | L*S |
| Tools and Equipment                          | Electrocution/Explosion/Fire/Hit by Falling Object/Projectile Ejected | Employee        | 3    | 4 | 12  | CORDLESS ELECTRICAL TOOLS USED (DRILLS, JIGSAWS, ETC.) PAT TESTING INSPECTION AND RECORD NOISE ASSESSMENT WERE NECESSARY HAVS ASSESSMENT WHERE NECESSARY PPE SUCH AS FACE/EYE PROTECTION, GLOVES, SAFETY BOOTS AT ALL TIMES, DUST MASK FFP2 MIN & HI VISIBILITY CLOTHING PRE USE INSPECTION | 1             | 4 | 4   |
| Lone Working                                 | Un Aided Incident or Accident   | Employee        | 3    | 3 | 9   | Operatives will not be permitted to work alone  | 1             | 3 | 3   |
| Chemicals and Substances Hazardous to Health | COSHH Related Ill Health  | Employee        | 3    | 4 | 12  | Material safety data sheets available at the work site COSHH training for all operators regarding the substance they are using  | 1             | 4 | 4   |