Risk Assessment

Site Name: Extension to Cherry Tree Surgery	Job ref no: 51018	Client	A to Z Medical Instruments

Site Address	Extension to Cherry Tree Surgery	Site Survey Details:	Several site visits, Site prepared and inspected by D&G staff

Prepared by

Signature	***Thomas Perks / Optimum Safety (H&S Consultant)***
Designation	*Project Manager*
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Date	*02/10/23*

Persons at Risk	Employees, 3rd parties

1. No	2. Hazard	4. Raw Risk Factor			5. Agreed Control Measures	6. Residual Risk Factor			7. Additional control measures specific to the site and work activities
		S	L	RR		S	L	RR	
1	Operator error	4	4	16	Operatives will be trained and competent to undertake their work safety on site. A full site induction will be completed before commencing works and operatives will be briefed on the site-specific hazards of the site.	4	1	4	
2	Hose burst	4	3	12	Additional controls must be implemented in high risk areas such as: shrouding of hoses, positioning of pump and additional bunding to contain spillages.	4	2	8	
3	Contact with underground services	5	4	20	Permit to work to be issued by the client before drilling commences. Service drawings to be used if applicable and available for use. Cable Avoidance Tool used by a competent person to assess the area for drilling and surrounding area if effected by works. Any services within the working area will have their location marked clearly across the whole of the working area. Drilling rigs must not be operated within 1000mm of a service. Underground Services will always be assumed to be live.	5	2	10	

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4	Use of drilling rig	5	4	20	Daily visual inspection of all equipment to be undertaken with a weekly written inspection completed. Any signs of damage which could hard the operator or 3rd partiers must be dealt with immediately or the equipment taken out of use until defect rectified. Whipchecks to be fitted on compressed air hoses. Hoses to be visually inspected daily before use. All rig movements will be completed under the direction of a trained and competent Banksman. All guards and interlick to be fitted to rigs and must be in place before use. An exclusion zone to be implemented around front of rig with barriers before use when required to protect 3rd parties. Banksman must be in attendance at all times whilst the rig is in use and the drilling must stop if there is a risk of 3rd party contact. Dust suppression to be used and operatives to wear FFP3 dust masks with a valid face fit test where there is a risk of inhalation of dust. Shrouding/barriers to be installed where there is a risk of ejected materials. Isolation of compressed air / water supply before adding / removing drilling rods. Where possible, drill rods should be added / removed by mechanical means. Where this is not possible, drill rods should be stored close to the work area to minimise the carrying distance. Hearing protection will be worn by all operatives within 5 metres of drilling the rigs. Position compressors away from work area.to ensure the exhaust fumes do not cause a risk to operatives or 3rd parties. Route air hoses so that they are not across gangways or in a position where they may be damaged. Hoses etc which cross walkways to be covered with ramps etc when required to protect from damage. Compressed air will not be directed at any persons (cleaning clothes / horseplay.)	5	2	10	

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5	Gases from drilling	5	3	15	Pre task risk assessment to be completed. Gas monitor will be used on drilling rig/ in the vicinity of drilling rig. Water used during drilling process where possible. All work must cease immediately if there is a risk to operatives or 3rd parties. Specialist advice to be sought when required.	5	2	10	
6	Plant movements	5	3	15	Site speed restrictions must be adhered to. Consideration of the room required for manoeuvring the machine before moving the drilling rig. Check for obvious hazards and obstructions such as soft ground, narrow gaps, limited head-room, steep gradients, adverse cambers, and excavations. All reversing vehicles and drilling rig/plant movements will be conducted under the direction of a Banksman when the operators vision is obscured.	5	1	5	
7	Land Slip / Sudden Loss of ground	5	3	15	Ground survey to be completed by competent person to ensure the stability of the ground dependant on the previous use of the surrounding area. Information to be obtained from the site engineer. The working area must be securely fenced off to prevent 3rd party access.	5	2	10	
8	Instability of surrounding structures	4	3	12	Correct flushing medium to be used. Operatives will be trained and competent and report and concerns to the site supervisor. Work to stop immediately if there is a risk.	4	1	4	
9	Overhead Electrical lines	5	3	15	Site specific risk assessment of the work area will be completed before the drilling rig is used. All overhead power lines in the vicinity of the works will be clearly marked out and control measures implemented to ensure a safe working distance is maintained at all times. Local electricity board to be contacted for safe working distance and control measures.	5	1	5	
10	Loading / unloading of plant	4	3	12	Only trained, competent authorised operatives to load and unload plant on site. Establish suitable safety zone and anyone not involved in the task to be kept clear. Vehicle warning beacons will be used in public areas. Loading/unloading to be completed on level and stable ground. Nobody to stand at the side of the vehicle being loaded/unloaded. Use of ramp (if fitted) to access the vehicle or trailer. Climbing up the sides of trailers is not permitted. No-one should ever jump onto or off a vehicle – always use steps and handholds.	4	1	4	

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11	Stability of drilling rig / Plant	4	3	12	Site visit/ surveys of the drilling area to be completed and working platform requirements to be assessed by works supervisor. All operatives to be briefed before commencing works with site specific information given for their safety.	4	1	4	
12	Fall from height	5	3	15	Where possible, work at height to be avoided by using telehandlers or pre-slinging of loads. Use of edge protection fitted to the sides of trailers etc. Where edge protection is not fitted, injury from falls from height will be minimised by a means of fall arrest. Safe means of access and egress to be used via proprietary ladder or step system that is part of the lorry, or a properly secured ladder. Inspect ladders for signs of damage and to be free from mud or grease. DO NOT walk backwards whilst on the trailer, always be aware of your surroundings. Where possible, the unloading should take place with nobody being on the vehicle, when this is unavoidable edge protection or fall arrest to be provided.	5	2	10	
13	Refueling of plant on site.	4	3	12	Engines must be switched off prior to refuelling; Re-fuel to be undertaken in well ventilated area. No smoking/no naked flames in the vicinity of the area when refuelling; Suitable fire extinguishers to be available in vicinity. Practice good hygiene; Wear impervious gloves to be worn by operatives refuelling. Refuel carefully and prevent spills. Do not overfill tanks. Store fuel in secure, vandal proof bunded tanks or jerry cans. Refuelling must not be undertaken within 15m of a watercourse. Spill kits are available on site with personnel instructed in their use	4	1	4	
14	Welfare facilities	2	2	4	Welfare breaks will be taken in the welfare cabin provided on site. If one is not available local amenities will be used. All welfare areas to be kept clean and free from waste.	2	1	2	

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15	Grout mixing and Use	3	3	9	Trained and competent operators to use the grout mixer. Plan the site layout taking into consideration the prevailing wind direction and nearby properties to ensure disruption is kept to a minimum. All plant and grout hoses shall be inspected before being use and all damaged equipment shall be taken out of use immediately. Hoses to be sheaved / protected in operating area from site vehicles and regularly inspected for damage. Adequate guarding of all moving parts on pump. Any interlock switches must not be by-passed. Machine operators should minimise dust by emptying contents into the mixer in a controlled manner. Ensure the machine is completely isolated before cleaning or maintenance. Secure ladder access if one is used on site. Keep dust to a minimum. Grouters to stand clear whilst loading shovel is emptied. Use mechanical means or team lifting to move grout hoses around site	3	1	3	
16	Burns & Irritation from contact with grout	3	3	9	Personal protective equipment to be worn when mixing i.e. gauntlets, safety footwear, leggings (no shorts allowed) and arms and legs will be covered, FFP3 dust masks to be worn with a valid face fit test.	3	1	3	
17	Blockages in hoses	5	4	20	Stop pumping immediately and release pressure inside the hose as much as possible. Only trained, competent operatives to deal with blockages in hoses. The system must be treated as though it is pressurised until it has been confirmed otherwise. Do not under any circumstance manually open or attempt to open the hose under pressure. Must wear impact protected safety goggles or full face visor – safety glasses do not provide adequate protection from impact. Use gravity to empty as much of grout as possible from the hose. Protect people against uncontrolled hoses and ejected grout with minimum 10metre exclusion zone; secure hose to prevent whipping. Compressed air should only be used as a last resort when clearing blockages.	5	2	10	

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18	Manual Handling injuries	4	2	10	Manual handling operations to be kept to a minimum. All operatives to be trained in manual handling. When mixing grout: Stack cement in a suitable position to reduce the need for the mixer operator to fetch, carry, bend or stretch to lift cement bags. Bags should be between waist and chest height at all times, either stacked on pallets or when applicable left on telehandler so working height can be adjusted as necessary. Reduce the impact on individuals through team lifting - one person will take charge & coordinate the lift.	4	1	4	
19	Plant storage and security	5	3	15	Reduce the risk of theft of plant and equipment by storing in a designated area. Other control measures to be used where applicable i.e. removing one wheel or fitting wheel clamps, chaining plant equipment to a fixed object; removing batteries. Fit control arm covers. All keys must be removed from plant and equipment where fitted, when not in use and left unattended. Hydraulic pressure to be relieved on control levers. Diesel bowsers must be locked.	5	1	5	

Key:

Severity (S):

5 Fatal

4 Permanent disability/loss of limb

3 Temp disability/considerable periods off work

2 Injury requiring 3 to 14 days off work

1 Minor injury/less than 3 days off work

Likelihood (L):

5 Potential accident likely to happen

4 Potential accident probable

3 Potential accident possible

2 Remote chance of accident

1 Accident improbable

Risk Ratings (RR)

20 - 25	Very High Risk
12-20	High Risk
8 – 11	Medium Risk
1 – 7	Low Risk