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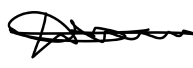
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Baseline Risk Assessment
Culemborg Development for Port of Cape Town

Transnet National Ports Authority
Baseline Risk Assessment
Culemborg Development for
Port of Cape Town
Doc. Number: CLB-HAS-RA-0001

Compiled by:	Terrence Vilakazi		05/09/2023
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Reviewed by:			04/10/23
	Elliot Motsoahole	Signature	Date
	SHE Manager		
Accepted by:	Katleho Lepati		13/10/23
	Project Manager	Signature	Date

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00		Issue for review
Rev No.	Date	Revision Details

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Introduction and Background

Transnet National Ports Authority (TNPA) is mandated to implement measures to protect its assets, customers, employees, and port facilities against terrorism, sabotage, stowaways/illegal immigrants, armed robbery, etc. Under this mandate TNPA is obliged to provide adequate and effective security fencing infrastructure and lighting to ensure these security barriers are protected, ensuring compliance with all relevant legislation and regulatory framework standards.

The perimeter of the site consists of a combination of steel palisade fencing and welded mesh fencing, with an approximate height of 2.5m. The steel palisade fencing however has been damaged in a number of areas and does not suffice as a physical barrier to intrusions. This has resulted in localized failure/collapse and the development of perimeter gaps, rendering the infrastructure incapable of preventing trespassing and subsequent non-compliance with the National Ports Act and Maritime Security Regulations.

The Culemborg area currently does not have any perimeter lighting along its boundary. The only lighting comes from the streetlighting along the N1 Highway. The main security entrance to Culemborg has no designated lighting, the only lighting comes from 2 streetlights along the entrance road. The lack of perimeter as well as entrance lighting poses as a safety risk for the tenants, TNPA staff and security officers on duty.

These works are aimed at replacing and upgrading security fencing, perimeter lighting and entrance lighting in Culemborg to ensure compliance with the relevant legislation and regulatory framework standards as well as address any security concerns posed by the condition of the existing facilities.

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Risk Assessment Title	Colemborg Development for Port of Cape Town
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Risk Assessment Team				
	Name	Designation	Contact Number	E-mail
Facilitator	Terrence Vilakazi	Health & Safety Practitioner	021 449 3589	Terrence.vilakazi@transnet.net
Team Member 1	Katleho Lepati	Project Manager		Katleho.lepati@transnet.net
Team Member 2	Elliot Motsoahole	SHE Manager	021 449 4735	Elliot.motsoahole@transnet.net

Inherent Risk
• Traffic congestion. • Excessive dust • Working in an operational area. • Exposure to Asbestos. • Working at Heights

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Activities Covered

The *Employer* and owner of the works, Transnet National Port Authority (TNPA), aim to ensure compliance with the relevant legislation and regulatory framework standards as well as address the security concerns and risks through the execution of this project. The Employer's objectives for this project are further listed below:

a. Perimeter Fencing

The *Employer's* objective is to replace the current steel palisade fence with welded mesh fencing. The welded mesh fencing has a long design life and requires minimal maintenance. The fence is robust and cannot easily be damaged in comparison with the other options considered. The welded mesh is designed to withstand harsh and corrosive environments and cannot easily be scaled, greatly improving the ports' security measures.

The *Employer's* objectives are to:

- i. Replace the existing steel palisade fencing with welded mesh fencing – matching existing on the northern boundary, providing a perimeter security fence that will demarcate the site boundary and restrict access to the area.
- ii. Ensure security compliance with the relevant legislation and regulatory framework standards as well as address the security concerns and risks.

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- iii. Achieve completion of the Works by meeting the completion date whilst maintaining the highest environmental, quality, and safety standards, minimizing disruptions to ongoing operations.

b. Perimeter Lighting

The *Employer's* objective is to install new 6m light poles with LED light fixtures along the entirety of Culemborg boundary. These light poles will serve as a deterrent against vagrant ingress and theft in the vicinity. The LED technology is aligned with the Port of Cape Towns Port Lighting Upgrade whereby the Port is moving towards the latest in lighting technology.

The *Employer's* objectives are to:

- i. Acquire new perimeter lighting for the entirety of the Culemborg area.
- ii. Ensure security compliance with the relevant legislation and regulatory framework standards as well as address the security concerns and risks.
- iii. Acquire Certificate of Compliance on completion of the electrical installation.
- iv. Achieve completion of the Works by meeting the completion date whilst maintaining the highest environmental, quality, and safety standards, minimizing disruptions to ongoing operations.

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c. Entrance Lighting

The *Employer's* objective is to install new 12m light poles with LED light fixtures at the entrance of Culemborg. These light poles will provide adequate lighting for the security checkpoint at the entrance. The LED technology is aligned with the Port of Cape Town's Port Lighting Upgrade whereby the Port is moving towards the latest in lighting technology.

The *Employer's* objectives are to:

- i. Acquire new entrance lighting for the main entrance to the Culemborg area.
- ii. Ensure security compliance with the relevant legislation and regulatory framework standards as well as address the security concerns and risks.
- iii. Acquire Certificate of Compliance on completion of the electrical installation.
- iv. Achieve completion of the Works by meeting the completion date whilst maintaining the highest environmental, quality, and safety standards, minimizing disruptions to ongoing operations.

d. Removal of Asbestos

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Scope of Risk Assessment

The risks identified are those that will have a direct effect on the contractors during construction but also those that could have a detrimental effect on the project directly or indirectly from a time delay and cost point of view.

Hazards, Associated Risks, and Ratings				
Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
1. Access into Port	Driving under the influence of alcohol and drugs.	- Injury to persons and property damage. - Disruptions to Port operations.	- All employees entering the Port shall subject to an alcohol Breathalyzer or drug test. - The contractor's drivers shall abide by road traffic rules as stipulated in the National Road Traffic Act (Act 93 of 1996) and Regulations thereto or otherwise.	HIGH
	- Non-compliance with Port rules - Speeding - Parking in areas not designated for parking.	- Port Entry Denied. - Injury to persons and property damage. - Suspension from the Port. - Obstruction to the road and lead to injury to persons/ property damage.	All Contractor employees including visitors, suppliers and deliveries must undergo TNPA safety induction before entering the Port and Construction site.	MEDIUM

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Hazards, Associated Risks, and Ratings				
Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
		Disruptions to Port operations.	- TNPA permits to be requested through TNPA Security at the contractor's expense. - All drivers shall abide by the speed limit of 20km/h inside the Port. - The contractor's drivers shall abide by road traffic rules as stipulated in the National Road Traffic Act (Act 93 of 1996). - Adherence to Vehicle and Transportation Management procedure and the Road Traffic Act. - Contractor shall ensure that all their drivers' park in designated areas to avoid obstruction on the road due to high vehicle movement. - Contractor's employees must ensure that they use designated routes to get to their respective site. - Contractor must ensure that a traffic management plan is developed and implemented when activities affect road traffic.	

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Hazards, Associated Risks, and Ratings				
Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
2. Site Establishment	• Unapproved site camp and layout • Temporal or permanent electrical connections • Using drinking water from un-identified source/ connection • No ablution facilities. • No designated eating area. • Defective tools used (drill, welding machine, grinders, and hand tools)	• Electrocution and property damage • Sickness of employees resulting from drinking water from unsafe sources. • Communicable disease due to poor hygiene practices. • Employees contracting diseases due to eating at hazardous areas on site. • Injuries to employees.	• Site camp must be approved by the Client to be safe for use by the Contractor • Electrical connection must be only done by a person in a possession of C.O.C. • Drinking water must only be source from a connection identified and safe for drinking. • Contractor to adhere to OHSACT ACT 85 of 1993 and Facilities Regulations of 1994, TNPA Health and Safety Project specification and Occupational Health Risk assessment. • Contractor to ensure all electrical and hand tools are inspected before use. • Contractor to comply with TNPA health and safety site specification.	HIGH
3. Transportation of Office Container, Materials and/ or Equipment.	• Overloading and speeding. • Incompetent Crane Operator	• Containers and materials falling off causing injuries and property damages. • Road accidents • Property damage and/ or injuries	• Contractor to ensure Crane truck is not overloaded.	HIGH

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Hazards, Associated Risks, and Ratings				
Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
			- The contractor's drivers shall abide by road traffic rules as stipulated in the National Road Traffic Act (Act 93 of 1996). - Contractor's driver must be competent and appointed in writing.	
4. Offloading of office containers and materials.	- Substandard rigging and lifting practices. - Mechanical failure of lifting equipment (mobile cranes/crane trucks) - Poor ground stability - High wind speeds - Employees working under suspended loads	- Loads falling causing injuries and property damages. - Loads swinging causing injuries and property damages. - Crane tipping over causing injuries to employees and damage to property	- Contractor must develop and implement a rigging study and lift plan. - Competent rigger to be appointed. - Valid crane, hook, rope, load, and calibration test to be completed. - Competent Rigging and lifting equipment inspector appointed (LMI). - Pre-use checks to be conducted by the appointed competent person. - All lifting and rigging equipment tested and certified, proof to be kept on file. Storage of lifting and rigging equipment to be done in an approved manner.	HIGH

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Hazards, Associated Risks, and Ratings				
Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
			- Contractor to ensure inspection of ground stability before outriggers are extended - Contractor to take note of the weather prior to any lifting activities. - Contractor to ensure that no lifting must take place when there is inclement weather and/ or the wind speed is equal or more than 30km/h - Contractor to ensure that no person walks or works under suspended loads.	
	- Incompetent rigger and crane operator. - Incorrect manual Handling.	- Loads falling causing injuries and property damages. - Loads swinging causing injuries and property damages. - Back injuries. - Pinch points.	- Competent operator and riggers with previous experience and competencies must be appointed. - Contractor to comply with Driven Machinery regulations, 2015 and 18(11) - Guide ropes to be used to control load. - Contractor to ensure employees are trained on correct manual lifting techniques. - Employees to use appropriate gloves when doing manual handling.	MEDIUM



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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
5. Civil Works/ Excavations	- Excavations left open and not barricaded. - High water table - Poor Ground condition - Inclement weather (poor visibility conditions i.e. fog, rain, blind spots); - Mechanical failure of machines (brakes, steering, park brake, leaks, exc.); - Machines not in safe and serviceable condition; - Unprotected excavations; - Unsafe Access and Egress into and from excavations; - Unstable excavation walls (even after inclement weather);	- People can trip and fall in the open excavations - Electrocution - Property damage - Water flooding - Drowning - Damage water pipes - HME falling into excavation	- Drawing indicating existing services - Bracing of excavations - Provision of excavation permits - Inducting employees and visitors - Clearly marked underground services - Isolation procedures to be put in place - Rerouting of services - Demarcation of high-water table areas - Access restriction - Project health and safety specification; - Ensure competent, trained personnel are used. - Dedicated pedestrian walk ways where practical; - adequate barricading of excavations; - Safe access and warnings. - Inspections of excavations by competent and appointed persons to ensure compliance including checks pertaining to inclement weather; - Excavators/TLB used for deep excavations; - Competent and certified operators;	HIGH

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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
	- Loose Objects on the side walls of excavations; - Underground services being struck/damaged;		- Detection to be conducted where uncertainty exists prior to use of any mechanical excavation equipment and must where possible have underground services isolated. - Adequate supervision to stop all excavation work at the first visible sign of foreign material (e.g. electric cable sheath, PVC piping material).	
6. Use of mobile Plant (i.e., HME - TLB, graders, excavators, tipper etc.)	- Defective mobile plant. - Incompetent operator. - Open/uneven surfaces. - Collision with Port equipment. - Intoxicated operator. - Medically unfit operator. - Man/machine interface	Multiple injuries/fatalities; property damage	- Compliance to Project Health and Safety Specification. - Pre-use inspections. - Competence verification. - Valid medical assessments. - Solid barricading. - Alcohol testing. - PPE (reflector vests) for high visibility. - Appointment of spotters/flagmen. - Designated walkways for personnel	HIGH
7. Removing Asbestos Roof	- Asbestos Roof - Roof collapsing	- Inhalation of Asbestos fibre from roof - Roof Support Failure may cause fatalities.	- Safety Observations - Registered Asbestos Contractor to Remove the Asbestos Roof. - Demolition/ Asbestos Survey to be done.	EXTREME

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Hazards, Associated Risks, and Ratings				
Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
		Roof collapsing on employees	- Compliance to OHS Act 85 (85 of 1993) including Asbestos Abatement Regulations, 2020 - Compliance to National Building Regulations. - SHE Representative Inspections	
8. Concrete Work (Pouring)	- Improper handling or working with concrete (i.e. contact with eyes or skin); - Holding of concrete weighted equipment; - Incompetent concrete mix operator; - Slipping and tripping	- Skin and or eye irritation - Back pain - Incidents (collision) resulting fatality injuries	- Project health and safety specification; - Medical Surveillance (Fitness for Duty Certificate); - Employee Dossier; - Concrete mix equipment inspection; - DSTI and Toolbox Talk; - Use of correct PPE (i.e. footwear, eye and hand protection etc); - Spotter for concrete truck mixer; - Supervision.	LOW
9. Working at elevated position (i.e., Roof Work/ Scaffold or ladders)	- Working on unprotected edges; - Poor housekeeping leading accumulation of waste and loose materials;	Falling from height resulting to fatality and injuries	- Project health and safety specification; - Use fall protection and prevention equipment (i.e. guardrails, solid barricade, harnesses) - Prior examination of employees for fitness by OMP and undergone a working at heights training thereafter.	EXTREME

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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
	- Incorrect methods of getting materials, equipment or tools from and to ground (i.e. throwing); - Working on rainy weather conditions (slipping) - Person falling from the ladder; - No ladder assistant used to hold the ladder; - Defective ladder used		- Competent scaffold erectors and supervisor appointed in writing. - Regular Scaffold Inspection. - Scaffolds conform to the OHS Act and SANS standards. - Scaffolding certified safe for use by a competent person. - Fall Protection Plan and/ or Rescue Plan to be developed. - Ladder assistant to be used; - Inspection of Ladders before use; - Three-point contact when climbing ladders. - SHE Representative Inspections - Good House Keeping - Supervision - Job Observations - Risk based PPE	
10. Hot Works – Welding and Grinding	- Incompetent Welder or Grinder Operator; - Substandard Electrical Tools (e.g. Portable Electrical Grinders, Drills, Welding	- Injury requiring medical treatment - Lost Time Injuries - Environmental issues - Fire or explosion	- Project health and safety specification; - Daily electrical equipment/tools inspection by a competent person; - Verified competency training for any person operating electrically driven tools and equipment;	

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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
	Machines, Generators) being Used; - Performing hot work activities in wet weather conditions; - Oil/Fuel leaking generators		- All electrical equipment run from portable generators to be double insulated; - Generators to be inspected daily; - Proper earthing for all welding activities; - All tools to be inspected and checked before use including use of correct cutting disk and backing plates; - Grinders may only be used on solid surface; - All electrically driven tools must be double insulated and must have a dead man switch fitted, it must not be possible to lock the equipment in the on position.	
11. Fencing	- Open excavations. - Defective hand tools.	Falling in open excavation that are not fenced or barricaded.	- Barricading Procedure. - Daily inspection of hand tools.	HIGH
12. Working near the operational site	- Construction vehicle and mobile plant on the operational site. - Medically unfit operator - Un-inducted operators	Injuries, fatalities, and property damage incidents can take place.	- Such vehicles and plant should be used for the design and intended purpose - Mobile plant must be in a possession of maintenance/service records - Operated by a competent person	HIGH

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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
			- Pre-start checklist to be completed before the shift starts, report abnormalities or defects if any. - All people coming to site must be inducted and accompanied by a person who is aware of the risks in the area. - Training of plant and machinery operators on the Safe Operating Procedure	
13. Working in live Substation yard or tempering.	- Unauthorized entry by workers - Working in restricted areas	- Entry of restricted live areas - Electrocution	- Site specific Induction - No unauthorized unsupervised entry to life yard - Competent Electrician and appointed in writing. - Issuing of COC certificate upon completion.	HIGH
14. Waste Management	- Rodents breeding which can cause communicable diseases - Littering on construction site. - Poor Housekeeping	- Rodents can infest the area and ill-health - Trip and fall caused injuries to employees. - Fire and/ or explosion.	- Waste separation and segregation will be implemented. - Waste to be only disposed-off in the legal disposal sites.	MEDIUM

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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
			• Proper housekeeping to be done on construction site.	
15. Dust from construction activities and stockpiles.	• Dust from stockpiles • Dust caused by moving Plants • Dust dispersed from demolition of structures (airborne dust from asbestos sheeting)	• Respiratory illness caused by dust inhalation • Skin irritations caused by dust from cargo stored in the stockpiles	• Dust control by means of dust suppression • The use of appropriate P.P.E (coveralls and dust masks)	MEDIUM
16. Travelling to site	• Traffic congestion • Speed of traffic	• Collision of vehicles	• The use of designated areas for construction vehicles • Adherence to reverse parking on site • Adherence to site speed limit	MEDIUM
17. Access to work areas	• Ground Stability • Uneven ground	• Workers can trip and fall that may cause breaking of limbs • Plant can fall that can lead to property damage, injury to surrounding workers and operator	• Proper assessment of ground stability • Levelling of work surface for plant before commencement of work	MEDIUM

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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
18. Existing environmental site conditions not associated with any activities	• Bees • Snakes • Bee stings during work/construction • Snakes • Heat • Chemical stress • Exposure to diesel fuels	• Anaphylaxis (Severe allergic reaction) • Snake bite venom poisoning • Death • UV radiation exposure, skin burn, skin cancer • Respiratory irritation, dizziness, nausea and loss of consciousness. In case of extreme exposure death is possible. Diesel exhaust may cause lung cancer.	• Bee control contact person on site • Emergency contact list • Snake catchers contact detail on site. • Emergency contact detail on site • Hard hats with sun brim should be provided. • Provide clean drinking water to prevent dehydration. • Time spent around the diesel tanks/flammable storage should be limited. • Spillages are minimized by following correcting re-filling procedure. Diesel fuels are kept in close container. Employees who are tasked with vehicles re-filling should wear PPE – Neoprene gloves and ABEK respirator. Spillage is contained within a bund wall	MEDIUM
19. Working at Night (Night Shift)	• Inadequate lighting. • Employees working long hours.	• Insufficient light - not enough (too little) light for the need. • Glare - too much light for the need. • Improper contrast.	• Contractor must conduct Lighting survey before initiating night work.	MEDIUM

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Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
		- Poorly distributed light. - Flicker. - Injuries due to fatigue and lack of rest/sleep.	- Contractor to ensure the site is well lit at night as workers should not be allowed to work in the dark. - Contractor to develop and submit a plan for working at night to TNPA. - Contractor to have two teams for day and night work. - Contractor to adhere to Basic Conditions of Employment Act.	
20. Occupational Health and Hygiene	- Noise - Working close or adjacent to the moving of construction plant (equipment and machinery), and public vehicles - Working in extreme temperatures - Ergonomics – including Manual handling - Dust Particles – Earthworks and drilling - Communicable and other infectious diseases	- Overexposure to noise levels - short and long term may result in potentially permanent health impact (noise induced hearing loss) - Overexposure to extreme temperatures may result in health conditions such as heat exhaustion and hypothermia. - Musculoskeletal injuries due to manual handling, bending, twisting, prolonged, muscle strains.	- Occupational hygiene monitoring and medical surveillance. - Hearing conservation programme. - PPE (Ear protection-ear muffs). - Compliance to Project Health and Safety Specification. - Occupational hygiene monitoring and medical surveillance. - Specialised PPE (e.g. lined gloves, balaclavas), Compliance to Project Health and Safety Specification (i.e. drinking sufficient potable water). - Compliance to Project Health and Safety Specification (i.e. lifting techniques),	EXTREME

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Hazards, Associated Risks, and Ratings				
Activity, step or action step	Hazards	Associated risk event	Risk controls	Risk Rating
	(e.g. COVID-19, HIV/AIDS, etc.)	• Fatigue • Inhalation exposure to solid dust results in Respiratory infection (potentially permanent health impact). • Lung Irritation / damage to eyes/ red eyes. • Contact with an infected person or area; • Sneezing or coughing without closing the mouth; • Unhygienic practices; • Unprotected sexual practices	• Task based risk assessment, DSTI and Toolbox Talks, • Correct lifting and handling practices and ergonomic awareness. • Compliance to Project Health and Safety Specification, • Occupational health assessment; • Hygiene monitoring; • Medical surveillance; • Dust suppression; • FFP2 dust masks and safety goggles. • Training on communicable and infectious diseases during DSTI and Toolbox talks; • Practice social distancing; • Washing of hands regularly; • Use of face masks; • Employees reporting to management when sick; • Drink plenty of water and keep hydrated, • Practice protected sex e.g. use protection	

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Annexure 1 – TNPA Risk Matrix and Descriptions

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Critical
Almost Certain	Medium	Medium	High	Extreme	Extreme
Likely	Low	Medium	High	High	Extreme
Possible	Low	Medium	High	High	High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Low	Low	Medium

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Assessed Risk Level	Description of Risk Level	Action Required
Low	If an incident were to occur, there would be little likelihood that an injury would result	Undertake the activity with the existing controls in place
Medium	If an incident were to occur, there would be some chance that an injury requiring First Aid would result	Additional controls may be needed
High	If an incident were to occur, it will be likely that an injury requiring medical treatment would result	Controls will need to be in place before the activity is undertaken
Extreme	If an incident were to occur it, it would be likely that a permanent or death would result	Consider alternatives to doing the activity. Significant control measures will need to be implemented to ensure safety

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Likelihood	Description of Likelihood		Consequence	Description of Consequence
1. Rare	Will only occur in exceptional circumstances		1. Insignificant	No treatment required
2. Unlikely	Not likely to occur within the foreseeable future, or within the project lifecycle		2. Minor	Minor injury requiring First Aid treatment (e.g. minor cuts, bruises, bumps)
3. Possible	May occur within the foreseeable future, or within the project lifecycle		3. Moderate	Injury requiring medical treatment or lost time
4. Likely	Likely to occur within the foreseeable future, or within the project lifecycle		4. Major	Serious injury (injuries) requiring specialist medical treatment or hospitalisation
5. Almost Certain	Almost certain to occur within the foreseeable future or within the project lifecycle		5. Critical	Loss of life, permanent disability or multiple serious injuries

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