



## OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION: BASELINE RISK ASSESSMENT

PROJECT NUMBER:	JW 14447
PROJECT LOCATION:	ENNERDALE DEPOT
PROJECT DESCR:	ENNERDALE DEPOT ROOF REPLACEMENT

# BASELINE RISK ASSESSMENT



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## ACTIVITY: SITE ESTABLISHMENT

Task	Hazard	Risk	Consequence	Rating	Controls
<b>Site establishment</b>	<ul style="list-style-type: none"> <li>✓ Sharp objects/ wires</li> <li>✓ Uneven surface</li> <li>✓ Faulty connection</li> <li>✓ Poor ergonomics</li> <li>✓ Falling objects</li> <li>✓ Inadequate security services</li> <li>✓ Not enough welfare facilities e.g. toilets, change rooms and lockers</li> </ul>	<ul style="list-style-type: none"> <li>✓ Cuts</li> <li>✓ Slips and trips</li> <li>✓ Damage to services</li> <li>✓ Using the environment as ablution facilities</li> </ul>	<ul style="list-style-type: none"> <li>✓ Injuries</li> <li>✓ Back strains and injuries</li> <li>✓ Crime, theft, fights</li> <li>✓ Contracting of communicable diseases</li> <li>✓ Soil, water pollution</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Supervisors to plan during site set up and induct employees</li> <li>✓ A competent electrician must be appointed to connect electrical wires to the site offices and Distribution Board.</li> <li>✓ Ensure there are welfare facilities on site for health and hygiene purposes</li> <li>✓ Awareness on hygiene and use of ablution facilities</li> <li>✓ Detailed Risk Assessment must be drawn before any work commences on site.</li> </ul>
<b>Installing containers</b>	<ul style="list-style-type: none"> <li>✓ Using lifting equipment</li> <li>✓ Faulty equipment</li> <li>✓ Faulty slings / chains</li> </ul>	<ul style="list-style-type: none"> <li>✓ Wind</li> <li>✓ Incompetent personnel</li> <li>✓ Heavy load</li> <li>✓ Failing of lifting equipment</li> </ul>	<ul style="list-style-type: none"> <li>✓ Serious injuries</li> <li>✓ Property damage</li> </ul>	<b>H</b>	<ul style="list-style-type: none"> <li>✓ Check wind speed prior to using the crane.</li> <li>✓ Inspect the crane, slings and chains before use.</li> <li>✓ Load test the crane before use</li> <li>✓ Only carry loads certified to be carried by the crane</li> </ul>
<b>Entry and exit</b>	<ul style="list-style-type: none"> <li>✓ No access control</li> </ul>	<ul style="list-style-type: none"> <li>✓ Unauthorised entry into the construction site</li> </ul>	<ul style="list-style-type: none"> <li>✓ Injuries</li> <li>✓ Theft</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Appoint a full time, registered security guard on site</li> </ul>



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Task	Hazard	Risk	Consequence	Rating	Controls
<b>Electrical installation</b>	<ul style="list-style-type: none"> <li>✓ Electricity</li> <li>✓ Incompetent personnel</li> <li>✓ Wrong tools</li> <li>✓ Damaged cables</li> </ul>	<ul style="list-style-type: none"> <li>✓ Contact with live electricity</li> <li>✓ Incompetent person connecting electricity</li> <li>✓ Electric shocks</li> </ul>	<ul style="list-style-type: none"> <li>✓ Electrocution</li> <li>✓ Serious injuries</li> </ul>	<b>H</b>	<ul style="list-style-type: none"> <li>✓ Follow lock out procedure</li> <li>✓ Ensure that equipment are earthed to an approved earthing point</li> <li>✓ Ensure a zero potential test is performed for electricity is isolated</li> <li>✓ Inspect all tools</li> <li>✓ Use correct tools for the job</li> <li>✓ Appoint a competent electrician/ technician</li> <li>✓ Wear task specific PPE</li> <li>✓ Ensure that there are no exposed wires on the cables</li> </ul>
<b>Stacking and storage</b>	<ul style="list-style-type: none"> <li>✓ Unsafe stacks of materials or pallets</li> </ul>	<ul style="list-style-type: none"> <li>✓ Falling of pallets and material on employees</li> </ul>	<ul style="list-style-type: none"> <li>✓ Injuries</li> <li>✓ Property damage</li> </ul>	<b>H</b>	<ul style="list-style-type: none"> <li>✓ Supervision of all stacking of materials on site</li> <li>✓ Materials of same base and heights stacked together</li> <li>✓ Barricade the stacking area</li> <li>✓ Unsafe stacks to be removed immediately</li> <li>✓ Never stack materials during knocking off time or late at night.</li> <li>✓ Use task specific PPE</li> </ul>



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### ACTIVITY: TRANSPORTATION OF MATERIALS TO SITE

Task	Hazard	Risk	Consequence	Rating	Controls
<b>Transportation of material to site</b>	<ul style="list-style-type: none"> <li>✓ Unsafe road conditions</li> <li>✓ Un-road worthy vehicles</li> <li>✓ Equipment and material not safely secured</li> <li>✓ Incompetent drivers</li> <li>✓ Driving under the influence of alcohol</li> <li>✓ Inclement weather</li> <li>✓ Speeding</li> <li>✓ Slippery road</li> </ul>	<ul style="list-style-type: none"> <li>✓ Overturning vehicles</li> <li>✓ Vehicle collisions</li> <li>✓ Bumping pedestrians / employees</li> </ul>	<ul style="list-style-type: none"> <li>✓ Injuries</li> <li>✓ Property damages</li> <li>✓ Third party liability</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Adherence to the speed limit</li> <li>✓ Only competent/ authorised drivers should operate the vehicle</li> <li>✓ Inspection of vehicles</li> <li>✓ Equipment and material to be properly secured</li> <li>✓ Alcohol testing to be done</li> <li>✓ The road to be paved to prevent accidents</li> <li>✓ Traffic control to be implemented to avoid collisions</li> </ul>
<b>Offloading of material</b>	<ul style="list-style-type: none"> <li>✓ Faulty lifting machinery &amp; equipment</li> <li>✓ Suspended load</li> <li>✓ Poor housekeeping</li> </ul>	<ul style="list-style-type: none"> <li>✓ Malfunctioning</li> <li>✓ Falling on employees</li> <li>✓ Obstructed walkways by materials</li> </ul>	<ul style="list-style-type: none"> <li>✓ Injuries</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Inspect lifting equipment prior to use.</li> <li>✓ Ensure the safe working load prior to use</li> <li>✓ Train the employees in manual lifting</li> <li>✓ Ensure proper housekeeping</li> <li>✓ The correct PPE must be worn</li> <li>✓ Designate the stacking areas and put signs</li> <li>✓ Stacking and storage inspector must be appointed and in charge</li> </ul>



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### ACTIVITY: USING A GENERATOR FOR ELECTRICITY

Task	Hazard	Risk	Consequence	Rating	Controls
<b>Fueling the generator</b>	✓ Spillages	✓ Slips, trips, falls	✓ Injuries	L	✓ Prevent spillages ✓ Use drip trays ✓ Use funnels for fueling
		✓ Fire	✓ Injuries	M	✓ No smoking allowed near the generator
	✓ Diesel fumes	✓ Inhalation	✓ Respiratory problems	L	✓ Provide employees with respirators
		✓ Skin contact	✓ Skin irritation	L	✓ Provide employees with gloves, safety boots and overalls
	✓ Running engine	✓ Explosion	✓ Injuries	M	✓ Switch engine off before refueling and make sure fuel cap is replaced. ✓ No smoking allowed near the generator
<b>Running the generator engine</b>	✓ Noise	✓ Over-exposure	✓ Noise-induced hearing loss	M	✓ Provide employees with hearing protection ✓ Provide rest periods for employees
	✓ Vibration	✓ Over exposure	✓ Raynaud's Syndrome	L	✓ Provide employees with vibration gloves. ✓ Rotate employees or provide rest periods.
	✓ Fumes	✓ Inhalation	✓ Respiratory problems	L	✓ Provide employees with respirators ✓ Never use indoors



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## ACTIVITY: BRICKWORK, PLASTERING & COATING

Task	Hazard	Risk	Consequence	Rating	Controls
<b>Brick laying</b>	<ul style="list-style-type: none"> <li>✓ Dust from cutting bricks</li> <li>Unsecured bricks</li> </ul>	<ul style="list-style-type: none"> <li>✓ Inhalation of dust</li> <li>✓ Falling on employees</li> </ul>	<ul style="list-style-type: none"> <li>✓ Respiratory problems</li> <li>✓ Injuries</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Employees should wear dust masks</li> <li>✓ Wear hand protection</li> <li>✓ Employees to exercise caution when handling bricks.</li> </ul>
<b>Cutting</b>	<ul style="list-style-type: none"> <li>✓ High Noise Levels</li> <li>✓ Cutting Grinder/Disc</li> </ul>	<ul style="list-style-type: none"> <li>✓ Vibration</li> <li>✓ Cutting edges</li> <li>✓ Eye penetration</li> <li>✓ Finger cuts</li> <li>✓ Expose to high noise level area</li> <li>✓ Uncontrolled disc</li> <li>✓ Electrical equipment failure</li> <li>✓ Sharp edges</li> </ul>	<ul style="list-style-type: none"> <li>✓ Damaged hearing</li> <li>✓ Carpal tunnel syndrome</li> <li>✓ Cuts/ injuries</li> <li>✓ Eye irritation / blindness</li> <li>✓ Injuries</li> <li>✓ Eye injuries</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Use hearing protection when exposed to excessive noise levels (greater than 85 dB over an 8-hour work period)</li> <li>✓ Rotate tasks to minimize worker exposure to equipment vibration.</li> <li>✓ Assess manual guide carefully to ensure correct usage of portable electrical devices.</li> <li>✓ Ensure all grinders and connections are inspected</li> <li>✓ Ensure that safety guards are in place on the grinder</li> <li>✓ Handle and switch of the grinder should be inspected and tested prior to use.</li> <li>✓ Only trained employees may use grinders</li> <li>✓ Proper PPE to be used</li> <li>✓ Inspect cutting disc prior to use</li> </ul>
<b>Concrete works</b>	<ul style="list-style-type: none"> <li>✓ Moving bucket</li> </ul>	<ul style="list-style-type: none"> <li>✓ Hitting employees</li> </ul>	<ul style="list-style-type: none"> <li>✓ Injuries</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Workers to stand clear of the path of the bucket.</li> </ul>



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### ACTIVITY: BRICKWORK, PLASTERING & COATING

Task	Hazard	Risk	Consequence	Rating	Controls
					✓ Banksman to direct the loading and offloading activities
	✓ Concrete splashing	✓ Skin contact	✓ Dermatitis ✓ Skin burns	<b>M</b>	✓ Use of skin protection ✓ Provide gloves and safety boots ✓ Have MSDS
	✓ Concrete splashing	✓ Eye contact	✓ Eye injuries	<b>M</b>	✓ Provide safety goggles
	✓ Manual handling of chutes	✓ Incorrect handling	✓ Injuries	<b>M</b>	✓ Training in correct handling methods ✓ Provide employees with gloves ✓ Provide leather gloves for concrete chute
Painting	✓ Paint fumes	✓ Inhalation	✓ Respiratory illness	<b>L</b>	✓ Provide employees with masks ✓ Provide MSDS
	✓ Paint	✓ Skin contact	✓ Skin reaction	<b>L</b>	✓ Provide employees with gloves and overalls ✓ Provide MSDS
Paint tins	✓ Heavy material	✓ Falling	✓ Damages ✓ Injuries	<b>L</b>	✓ Proper lifting of material ✓ Develop SOP
	✓ Spillages	✓ Trip and falls	✓ Injuries	<b>L</b>	✓ Provide drip trays



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### ACTIVITY: BRICKWORK, PLASTERING & COATING

Task	Hazard	Risk	Consequence	Rating	Controls
<b>Storage and usage of HCS</b>	<ul style="list-style-type: none"> <li>✓ Burning or fires on site</li> <li>✓ Improper labelling of chemical containers</li> </ul>	<ul style="list-style-type: none"> <li>✓ Property damage</li> <li>✓ Accidental consumption of flammable liquids</li> </ul>	<ul style="list-style-type: none"> <li>✓ Serious injuries</li> <li>✓ Illnesses</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ A well ventilated cage may be used for storage of all the HCS and flammables</li> <li>✓ HCS supervisor must record all quantities on a register.</li> <li>✓ Label containers correctly</li> <li>✓ Display HCS signage</li> </ul>





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## ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
Scaffold work	Improper erection	<ul style="list-style-type: none"> <li>✓ Collapse</li> <li>✓ Falling of employees and equipment</li> </ul>	<ul style="list-style-type: none"> <li>✓ Property damages</li> <li>✓ Fatalities</li> </ul>	H	<ul style="list-style-type: none"> <li>✓ Only a competent scaffold erector may erect a scaffold.</li> <li>✓ Scaffold to be erected on firm, stable base</li> <li>✓ Check the stability of the scaffold prior to allowing employees to climb on them.</li> <li>✓ Mobile scaffolds must have their wheels locked before any person is allowed to climb on them.</li> <li>✓ All parts of the work platform and scaffold must have safe means of access</li> <li>✓ Unattended or incomplete scaffold should be prevented against unauthorized access.</li> <li>✓ Suitable access ladder must be provided</li> <li>✓ A fall arrest harness must be worn.</li> <li>✓ Never use worn out fall arrest equipment.</li> <li>✓ Suitable equipment for rescue must be available</li> <li>✓ Proper bracing of the scaffold</li> <li>✓ Scaffold to be securely tied to a structure</li> </ul>
	Overloading	<ul style="list-style-type: none"> <li>✓ Collapse</li> </ul>	<ul style="list-style-type: none"> <li>✓ Property damage</li> </ul>	H	<ul style="list-style-type: none"> <li>✓ Display the safe working load of the scaffold</li> </ul>



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### ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
		✓ Falling of employees and equipment	✓ Fatalities		✓ Never exceed the SWL of the scaffold
	Overhead lines	✓ Contact with overhead lines ✓ Contact with employees	✓ Property damages ✓ Electrocution	H	✓ Erect the scaffold away from power lines ✓ Keep tools away from overhead lines ✓ Fall arrest equipment to be attached
	Unstable ground conditions	✓ Collapsing of scaffold	✓ Injuries ✓ Property damage	H	✓ Ensure that the foundation / footing of the scaffold is stable and levelled ✓ Only trained and competent persons may erect a scaffold
	Non-compliant scaffolding	✓ Collapsing of scaffold	✓ Injuries ✓ Property damage	H	✓ All platforms to be fully boarded and boards used to comply with SANS 085 ✓ All components of the scaffold must comply with SANS 085
Work platform	Inadequate space	✓ Falling persons and objects	✓ Fatalities ✓ Property damages	H	✓ Work platform should be at least 1m wide and capable of carrying the load that the type of work carried out may require



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## ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
					<ul style="list-style-type: none"> <li>✓ To prevent persons from falling from the outside edges of work platforms, guardrails and mid-rails must be fitted.</li> <li>✓ If loose objects or other materials may be present on the platform, edge protection/ toe boards must be provided on work platforms.</li> </ul>
<b>Edge protection</b>	Working close to edges	✓ Falling	✓ Fatalities	<b>H</b>	<ul style="list-style-type: none"> <li>✓ To prevent persons from falling, edge protection must be erected around the perimeter of the work. This must comprise the guardrail and mid-rail designed to withstand any reasonable force, which is expected to fall against it.</li> <li>✓ Only a competent person may erect an edge protection system</li> <li>✓ Edge protection can be in the form of hook on boards used as toe boards</li> </ul>
<b>Working at heights</b>	<ul style="list-style-type: none"> <li>✓ Heights</li> <li>✓ Unfit employees</li> <li>✓ Using hand tools</li> </ul>	✓ Falls	✓ Injuries	<b>M</b>	<ul style="list-style-type: none"> <li>✓ Employees to use proper PPE including safety harnesses when working at heights.</li> <li>✓ Inspect all tools prior to use.</li> </ul>



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## ACTIVITY: ROOF WORK: SCAFFOLD WORK

Task	Hazard	Risk	Consequence	Rating	Controls
	Unsecured tools and equipment	✓ Falling onto employees			<ul style="list-style-type: none"> <li>✓ Provide training for using safety harnesses correctly.</li> <li>✓ Employees working at heights must be certified fit to work.</li> <li>✓ Hand tools must be attached to lanyards when working at heights.</li> <li>✓ Use tool bags</li> <li>✓ Use netting system below each level.</li> <li>✓ No work should be done on the ground when work at heights is in progress.</li> <li>✓ Proper signage to be displayed.</li> </ul>



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## ACTIVITY: MECHANICAL LIFTING

Task	Hazard	Risk	Consequence	Rating	Controls
<b>Lifting using a crane</b>	✓ Overhead lines	✓ Contact with crane	✓ Electrocution ✓ Property damages	<b>H</b>	✓ All lifting activities to be planned at least 2m away from overhead lines ✓ Obtain wayleaves from Eskom ✓ Appoint ORHVS
	✓ Wind / Unfavourable weather	✓ Deflection ✓ Loss of control	✓ Injuries ✓ Property damages	<b>H</b>	✓ Do not use during unfavourable weather conditions
	✓ Incompetent operator	✓ Loss of control ✓ Hitting structures and people	✓ Injuries ✓ Property damages	<b>H</b>	✓ Only trained and competent operators may operate the crane
	✓ Overloading	✓ Collapse of material	✓ Injuries ✓ Property damages	<b>H</b>	✓ Display safe working load on the crane
	✓ Faulty crane	✓ Malfunctioning	✓ Injuries ✓ Property damages	<b>H</b>	✓ Cranes to be inspected by competent persons prior to being used ✓ All faulty cranes to be tagged and locked out



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### ACTIVITY: GENERAL ACTIVITIES ON SITE

Task	Hazard	Risk	Consequence	Rating	Controls
✓ Working on site	✓ Unhappy community ✓ Criminals	✓ Community coming to site ✓ Violence against employees	✓ Property damages ✓ Serious injuries	<b>H</b>	✓ Develop an emergency response procedure ✓ Meet with the community and all stakeholders prior to commencement of the project ✓ Keep all gates locked at all times ✓ Have the contact details of the nearest police station / JMPD offices ✓ Liaise with CLO, ward governance and councilor ✓ Stop work and evacuate employees where possible ✓ Have 24/7 security on site
	✓ Unfavourable weather conditions	✓ Exposure to temperature extremes	✓ Heat exhaustion ✓ Frost bite	<b>M</b>	✓ Provide employees with water for cooling down. ✓ Provide employees with warm jackets during winter and gloves ✓ Provide 5-minute rest periods for every 30 minutes of exposure to temperature extremes.
	✓ Housekeeping	✓ Trips and falls	✓ Injuries	<b>M</b>	✓ Ensure that proper housekeeping is maintained on site at all times.
	✓	✓	✓		✓



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## ACTIVITY: ELECTRICAL WORKS

Task	Hazard	Risk	Consequence	Rating	Controls
Cabling	✓ Live electric cables	✓ Electric Shock	✓ Serious injuries	H	✓ Ensure that electricity supply is switched off during installation ✓ Implement lockout procedures
	✓ Inadequate wiring	✓ Electric fault ✓ Fire ✓	✓ Serious injuries ✓ Property damages	H	✓ Only competent persons to do the electrical work
	✓ Use of faulty cables	✓ Fire ignition	✓ Burns/ damages	M	✓ Visual inspection of cable before use
	✓ Cutting	✓ Eye penetration	✓ Eye injuries/ blindness	M	✓ Safety goggles shall be worn by employees when cutting steel
	✓ Unit activation	✓ Struck by equipment	✓ Injuries	M	✓ Lock out/ Tag out
	✓ Live Yard	✓ Electrocution Injury ✓ Working unauthorized ✓ Miscommunication between employees	✓ Injury or death	H	✓ Obtain a permit ✓ Follow cardinal rules ✓ Strict supervision ✓ Fire extinguisher must always be on site ✓ Obtain a permit and follow all procedures listed ✓ Strict supervision ✓ Competent technician operation ✓ Issue test certificate for every testing and inspection done
	✓ Electrical connection ✓ Extension cords	✓ Explosion ✓ Faulty cord failure	✓ Injuries / damage to employees and equipment	L	✓ Emergency stop button must always be serviceable ✓ Fire extinguishers must always be kept on site



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## ACTIVITY: ELECTRICAL WORKS

Task	Hazard	Risk	Consequence	Rating	Controls
			✓ fire		
	<ul style="list-style-type: none"> <li>✓ Electrical equipment</li> <li>✓ Portable electrical appliances</li> </ul>	<ul style="list-style-type: none"> <li>✓ Use of faulty electrical equipment;</li> <li>✓ Faulty equipment could also start a fire.</li> </ul>	<ul style="list-style-type: none"> <li>✓ All workers could suffer potentially fatal shocks or burns.</li> <li>✓ Electric shock/ burns</li> <li>✓ injuries</li> </ul>	<b>M</b>	<ul style="list-style-type: none"> <li>✓ All tools to be checked and tagged before bringing onto site;</li> <li>✓ Portable electrical appliances examined and where necessary, tested by a competent person within the recommended time limit;</li> <li>✓ Defective appliances and leads are removed from use and kept secured until they can be repaired or removed from the site;</li> <li>✓ Electric tools and installations to be in good condition;</li> <li>✓ Inspect electric tools before use;</li> <li>✓ Do not use electric tools in wet / damp conditions;</li> <li>✓ Use personal protective equipment such as insulated gloves.</li> </ul>





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### RISK ASSESSMENT MATRIX

Likelihood	Consequences				
	Insignificant (minor problem easily handled by normal day to day processes)	Minor (Some disruption possible e.g., damage equal to R150k)	Moderate (significant time / resources required. E.g., damage equal to R500k)	Major (Operations severely damaged. E.g., damages equal to R1m)	Catastrophic (business survival is at risk. Damage equal to R5m – 10m)
Almost certain (90% chance)	High	High	Extreme	Extreme	Extreme
Likely (between 50-90%)	Moderate	High	High	Extreme	Extreme
Moderate (between 10-50%)	Low	Moderate	High	Extreme	Extreme
Unlikely (between 3-10%)	Low	Low	Moderate	High	Extreme
Rare (<3%)	Low	Low	Moderate	High	High