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| High Pressure Water Cleaner Safe Work Method Statement (SWMS)  |
| Business Contact: | Phone #:  | Principal Contractor (PC): |
| Responsible person *(for monitoring SWMS and work):* | PC Address: |
| Signature:  | Date:  | PC Phone #: | Date SWMS provided to PC: |
| Contact Phone #: | Job Site Address: |
| **Site Management Plan** | Is the work associated with a Construction Project? [ ]  **Yes [ ]  No** | *If yes* – This SWMS must align with requirements of the Site Management Plan in place for the Construction Project. |
| **This work activity involves the following “High-Risk Construction Work” (HRCW -** *identified in the Job Task column***)** |
| [ ]  Confined spaces | [x]  Mobile plant movement | [ ]  Demolition of a load-bearing structure | [ ]  Asbestos disturbance |
| [ ]  Using explosives | [ ]  Diving work | [ ]  Artificial extremes of temperature | [ ]  Tilt-up or pre-cast concrete |
| [ ]  Pressurised gas distribution mains or piping chemical, fuel or refrigerant lines energised electrical installations or services  |
| [ ]  Structures or buildings involving structural alterations or repairs that require temporary support to prevent collapse |
| [ ]  Involves a risk of a person falling from 2m or more, including work on telecommunications towers | [ ]  Work in a ceiling space (W.A. Only) |
| [ ]  Working at depths greater than 1.5 metres, including tunnels or mines | [x]  Work in an area that may have a contaminated or flammable atmosphere |
| [ ]  Work carried out adjacent to a road, railway or shipping lane, traffic corridor | [ ]  In or near water or other liquid that involves the risk of drowning |
| **WORKING WITH A RISK OF A FALL OVER 2 METRES**. Select the fall from height 'hierarchy of control level' considered when establishing controls: |
| [ ]  L 1: Work on the ground or solid construction  | [ ]  L 4: Use a fall arrest system e.g., safety harness, catch platforms |
| [ ]  L 2: Use a passive fall restraint system e.g., guard rails, scaffolding, EWP | [ ]  L 5: Implement administrative controls e.g., signage, or instruction |
| [ ]  L 3: Use a work positioning system e.g., travel restraint, rope access | [ ]  Other? |
| More than one of these measures to reduce risk can be used. For example, engineering controls like edge protection can be implemented with administrative controls like training and use of this SWMS, while wearing PPE (non-slip shoes). Please describe why it is not reasonably practicable to use higher-order control measures. E.g. The job is less than 5 minutes on a ladder. |

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| **Planning/Preparation** | * Liaise with Principal Contractor to identify on-site safety systems and procedures
* Establish supervisory and communication arrangements
* Principal contractor to confirm emergency response procedures are in place.
 |
| **Hold Points** | * Hold points identified and signed off before continuing work. *Specify?*
 |
| **Training/Licence** | * All workers to have a General Construction Induction Card
* Relevant workers have relevant certificates of competency, licenses, and training. *Specify on the SWMS Sign-off for each worker.*
* Trained First Aider on site
* All workers trained in site-specific emergency and evacuation procedures, SWMS, safe work procedures, and safety data sheets.
 |
| **Worker duties and responsibilities** | * Fit condition for work, i.e.,, no signs of fatigue, alcohol or drugs
* Attend all site inductions/briefings
* Comply with all site requirements, e.g. PPE, Traffic Management Plans (TMP)
* Only carry out work related to the contract
* Inspect completed work and report possible safety, environmental and quality matters to the supervisor.
 |
| **Monitor/Review** | * All people involved in the task must have this SWMS communicated to them before work commences
* SWMS to be reviewed and amended if necessary, in consultation with relevant people after any near miss or incident
* If additional site hazards identified, review this SWMS and amend control measures to suit
* People, including workers, contractors and sub-contractors, affected by the revisions to this SWMS, must be informed ASAP
* Give the principal contractor a copy of the revised SWMS
* The site supervisor to monitor works against the controls stated in this SWMS
* SWMS must be kept on-site and made available for inspection or review
* Keep a record of this SWMS until the job is complete or for two years if involved in a notifiable incident
* Regardless of any other factor, the person in control of the workplace must review this SWMS at least annually.
 |
| **Site-Specific Notes:** | **Act, Regulations, Codes of Practice References:**

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| **How to add your references** Step 1: Click the link below to download your reference list *(save it to an appropriate location on your computer)* Step 2. Open the reference list document and Copy and Paste the relevant references into this section Step 3. Remember to remove this instruction before adding references[*Legislation and Codes of Practice Reference List Download*](https://safetydocs.safetyculture.com/content/PDFSample/1-Legislation%20and%20Codes%20of%20Practice%20Reference%20List.pdf)–  |

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| **Personal Protective Equipment (PPE)** |
| Foot Protection | Hearing Protection | HighVisibility | Head Protection | Eye Protection | Face Protection | Hand Protection | Protective Clothing | Breathing Protection | Sun Protection | Safety Harness | SeatBelt**A picture containing clipart  Description automatically generated** |
| **Icon  Description automatically generated** | A picture containing clipart  Description automatically generated | Icon  Description automatically generated | A picture containing clipart  Description automatically generated | Icon  Description automatically generated | Icon  Description automatically generated | Icon  Description automatically generated | A picture containing clipart  Description automatically generated | A picture containing drawing, game  Description automatically generated | Icon  Description automatically generated | A picture containing text, clipart  Description automatically generated |
| [x]  | [ ]  | [x]  | [ ]  | [x]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | **[ ]**  | **[ ]**  |

| **Job Task** | **Hazards** | **IR** | **Control Measures*****Inherent*** *Risk-rating* ***(IR)*** *before controls - Residual Risk-rating* ***(RR)*** *after controls* | **RR** | **Responsible Person** |
| --- | --- | --- | --- | --- | --- |
| 1. Working alone
 | Emergency | 4A | * Ensure a second person knows your location and expected time of return
* Use mobile phone, telephone or radio to periodically check-in
* Communication equipment within easy reach at all times
* Take extra care to work safely and methodically
* Have a first aid kit readily available and stocked appropriately.
 | 2M | **Operator** to maintain call logins |
| 1. Arrival at site
 | Personal injury, property damage &/or environmental incident | 3H | * Follow Traffic Management Plan if in place
* Position the vehicle in a safe location, deploy physical barriers, caution signs as necessary
* Identify and obey all safety-related signage (check site entry requirements)
* Report to Site Supervisor
* Ensure site-specific induction undertaken
* Assess mobile phone reception
* The worksite is exactly as detailed in terms of agreement or contract
* Complete a JSA specifying the control measures for hazards.
 | 2M | **Operator** to check the site and conduct JSA where necessary |
| 1. **HRCW**

Work area set up | * Powered mobile plant movement
* Struck by mobile plant
* Laser beams
* Crush injuries
* Amputation
* Entanglement
* Fatality
 | 4A | * Follow any traffic management plan (TMP) requirements
* *Some TMP may say that pedestrians have the right-of-way. Never assume this. Make visual and verbal contact with the plant operator as required*
* Check constantly for changing hazards and monitor work position at all times, ensure:
* Do not stand behind reversing vehicles
* Allow sufficient distance from the plant during operation
* Do not conduct work in established "no go zones."
* Alertness at all times. Listen for reversing alarms/beepers & calls from Plant Operators
* Safety/warning signs, spotters, traffic barriers. must be obeyed as required
* Work positions should be in clear sight of plant operators
* High visibility clothing worn at all times by all workers.
 | 2M | **Supervisor** and **operator** to ensure control measures followed |
| * Water under pressure
* Projectiles
 | 3H | * Establish an exclusion zone for other workers and the public. i.e., those not associated with the activity. This zone should be clearly defined by signage and hazard marking tape or flagging. Use solid barriers as required to reduce the effects of projectiles
* Maintain awareness of unauthorised people attempting to enter or entering the work area
* If members of the public or unauthorised personnel enter the exclusion zone, stop work until removed from the work zone
* All equipment and machines near work areas should be protected or shielded from water and/or being hit by flying debris:
	+ Remove all objects such as rocks, broken glass, nails, wire, debris, toys, or Anyhing that may become a hazard during Water Jet Cleaning operation
* Hoses, Check:
	+ Restrained to restrict their movement in the event of a hose-end failure
	+ Nozzles checked and cleared of debris that could cause obstructions
	+ Attachments should be fitted as per the manufacturer's recommendations.
 | 2M |
| Contact with electricity  | 3H | * Any electrical equipment in the immediate area of the operation that presents a potential hazard and is not required during the job must be de-energised, shielded, or otherwise made safe
* Ensure equipment is not placed in areas where they may be run over, damaged or exposed to water (unless rated for wet environments). Keep power leads up off the ground & out of the way
* Electric Powered Units:
* All power water jet cleaner and leads are Tested and Tagged and are current
* Safety switches (RCD's) are provided
* Ensure switchboards have appropriately rated circuit breaker
* ***Do not use plug top RCD's fitted to power water jet cleaner, as the RCD cannot be tested.***
 | 2M |
| Exposure to hazardous vapours *(fuel-powered units)* | 4A | * ***Do not run a diesel/petrol-powered machine inside a building, or where ventilation is limited.***
* Always operate the tool in a well-ventilated area
* Use mechanical ventilation where required.
 | 2M |
| Fire | 3H | * Ensure equipment rated for atmospheric requirements (water, or explosion-proof for flammable zones)
* Always operate in areas free of combustible materials, gasoline, flammable solvents or vapours
* Ensure fire protection equipment accessible as required.
 | 2M |
| Night work | 3H | * When carrying out night work, ensure adequate systems are in place to enable safe work. For example, lighting in parking and re-fuelling areas, illuminated signage, reflective tapes on truck cabin steps.
 | 2M |
| 1. Environment
 | Environmental impact | 3H | * **Noise & vibration** - Be aware of maximum noise levels at the site
* The plant is maintained to minimise noise
* No noise produced outside council approved hours of operation
* **Waste** - place all wastes and rubbish in bins or other appropriate containers
* Separate recycle waste from general waste
* **Fuels, oils & chemicals** - ensure that a spill response kit is available at all times and clean up spills immediately
* Follow instructions in SDS for clean-up requirements
* Dispose of chemicals correctly, empty containers/bags in approved waste containers
* Triple rinse all empty/unwanted containers and make containers unusable before disposal.
* **Waterways & soils** - do not wash out tools or containers where residue can enter waterways or drains.
* **Vehicle movement** - follow the TMP, only travel on established tracks and roads
* Use designated entry and exit points.
 | 2M | **Supervisor** and **operator** to ensure control measures followed  |
| 1. House keeping
 | Slips, trips & falls | 3H | * Maintain housekeeping throughout the shift & clean-up, ensure:
* Safe access and egress
* Sufficient lighting
* Free of tripping hazards (such as excess material, hoses)
* Complete visibility of work area
* Use pendants, lead stand or insulated cable hangers
* Do not drape leads/hoses over body or workpiece
* Do not run leads/hoses along ground/floor, near sharp edges, across doorways or hang them over metal structures
* Perform regular hose set up checks:
* Not running across walkways, roadways or stairways
* Arranged to minimise trip hazards
* If using steam and hot water can cause vapour clouds than limit visibility. To maintain visibility:
* Always direct the steam/hot water away from yourself
* Plan the work to avoid having to walk into a vapour cloud, where vision becomes poor
* If visibility is lost, stop work, wait for the vapour to dissipate before continuing.
* Ensure that footwear is suitable. Snug-fitting shoes/boots with flat, non-slip soles, no loose soles, long laces, soles that are oily, or caked with mud or other contaminants.
 | 2M | **Supervisor** and **operator** to ensure control measures followed  |
| 1. Manual tasks
 | * Fatigue
* Prolonged seating
* MSD injuries
 | 3H | * Ensure materials/equipment is as close to the work area as possible
* Complete visibility of work area for Water Jet Cleaner operators
* Access to clean water supply as near as possible
* Ensure the unloading route is clear of hazards
* Where possible, larger pressure units should be unloaded using mechanical means
* Use ramps, to unload large units where practicable:
* Ensure ramps are securely fastened to the tray
* Do not stand below the pressure unit when unloading using ramps – Use another person to assist and always handle from the side
* Manual lift to unload:
* Use team-lifts where possible
* As much as possible, team members are of similar height and capability
* Team members know their responsibilities during the lift
* Ensure materials /equipment is stored as close to the work area as possible.
 | 2M | **All workers** to ensure control measures followed  |
| 1. **HRCW** Operating the pressure cleaner
 | Equipment malfunction | 3H | * Inspect, connect and operate the pressure cleaner following manufacturers' instructions
* Read all instructions and become familiar with the controls before use
* Check pressure unit functionality (i.e., operation, pressure etc.) and performance
* Check power cable for cuts or general damage each time the unit is used.
* If power cords plugs are damaged, they must be replaced immediately
* For hot water and steam units - Set the required temperature and ensure hot water switches are in the correct position *(as per operating manual instructions)*
* Start the machine and ensure it operates as expected (check all controls are operational and ensure off /on switches are functional
* Check for damage or faults regularly during operation. Examples, if excessive vibration occurs, stop using immediately.
* *Do not use if any fault/damage/missing parts. Report immediately and follow tag-out/lock-out procedures.*
 | 2M | **Supervisors** to check all controls in place and followed**Operator** to follow controls and make Supervisor aware of any issues |
| * Water under pressure
* Injection injury
* Amputation
* Projectiles
 | 4A | * Use the lowest pressure compatible with the work to be performed
* Objects to be cleaned must be secured against movement
* Small objects must be secured to a vice or similar tool
* A person should never hold objects
* *Never put your hand over a jetting nozzle when operating or use high-pressure water to clean yourself, clothing or footwear (Water jet at 1500psi will cause injury if it contacts a person)*
* Wear eye protection, protective clothing, rubber steel-toed boots with metatarsal guards.
 | 2M |
| Injury to pedestrians | 4A | * ***Continually check for people entering the area***
* ***Stop operations if approached***
* ***Only point spray nozzle at the surface to be cleaned***
* ***NEVER leave the cleaner unattended during use***
* ***NEVER point the hose at a person or animal.***
 | 2M |
| Adjacent to road & public access | 4A | * If cleaning roadside – comply with local laws and permits
* Exit vehicle from the non-traffic side of the road
* Wear high visibility clothing.
 | 2M |
| Contact with electricity *(electric powered units)* | 4A | * Keep the power cord away from heat, oil, sharp edges or moving parts
	+ Replace damaged cords immediately
* Never carry electrical water jet cleaner by the power cord
* Do not use a power cord to pull equipment from the power socket
* Unplug tool when not in use
* *Do not:*
* *Expose power tool to rain or wet conditions*
* *Abuse the cord, never use the cord to carry the tool or pull the plug from the outlet.*
 | 2M |
| Contact with hazardous chemicals | 3H | * Follow directions of use for *(specify the chemicals)*
* Consult SDS for the product
* Use PPE as per the SDS - *specify*
* Use with adequate ventilation
* Chemical resistant gloves for prolonged exposure
* *DO NOT Eat or drink when handling chemicals*
* *DO NOT Eat or drink without washing hands thoroughly first*
* *DO NOT Take food into the work area where chemicals are being used or stored*
* *DO NOT Wear contaminated PPE in areas outside the work zone, such as eating areas.*
 | 2M |
| * Steam
* Hot water
* Burns
 | 3H | * Hot water /steam units:
* Warn others in the area that hot water/ steam will be used
* Set water temperature only as high as necessary to accomplish the task
* Wear PPE - rubber gloves and boots, face shield, long pants and long sleeve shirt, apron
* Always direct hot-water/ steam away from yourself
* Wear boots *inside* pant legs, to avoid hot water flow into boots
* Never use a cold-water hose for hot water or steam washer cleaning. (ensure hose is reinforced and built for purpose).
 | 2M |
| Asbestos disturbance | 4A | * ***The use high-pressure water jet cleaners on asbestos is prohibited***
* Ensure the worker is competent to identify if asbestos is present
* Determine the presence of asbestos-containing material (ACM) by obtaining a copy of the asbestos register for the site.
 | 2M |
| Lead disturbance | 4A | * Ensure the worker is competent to identify if a lead is present
* Determine the presence of lead in the materials being cleaned, e.g. lead-based paint - do not pressure wash peeling paint that contains lead. The paint chips will be scattered all over the place, and you will find it impossible to gather up all the debris/paint chips creating a "lead hazard".
 | 2M |
| Fire / explosion  | 3H | * Do not operate power water jet cleaner in explosive atmospheres (i.e., presence of flammable liquids, gases or dust).
 | 2M |
| Property damage | 3H | * Keep the nozzle approximately 1.5m away from the surface being cleaned
* Any objects to be cleaned must be secured against movement
* Any objects to be cleaned must be secured against movement
* Small objects must be secured to a vice or similar tool
* Objects should never be held by a person
* Aim the wand at an angle to its target. This will help to lift and remove dirt from the object more effectively than blasting it straight on
* High-pressure Water Jet Cleaners should not be directly aimed at electrical wiring, switches, relays, alternators, starter motors, bearing seals, window rubbers or other vulnerable components.
 | 2M |
| Strong reaction force - vibration | 3H | * Consider reaction forces and ability of the worker to maintain control of the pressure cleaner
* Use triggers that can lock into place for use over longer periods (more than 30 seconds at a time).
 | 2M |
| Slips, trips & falls  | 3H | * Ensure secure footing, as the area will become wet
* Perform regular hose checks:
* Hoses not running across walkways, roadways or stairways
* Hoses arranged to minimise trip hazards.
 | 2M |
| Noise | 3H | * Ensure hearing protection is worn by all people throughout exposure to noise.
 | 2M |
| 1. **HRCW** Refuelling
 | Fire / explosion | 4A | * DO NOT smoke during re-fuelling
* Ensure re-fuelling is undertaken in a well-ventilated area, clear of ignition sources
* Safety Data Sheets (SDS) for all fuel products on hand
* Follow manufacturer's manual/recommendations for re-fuelling
* Ensure fire extinguisher available and in date.

**Diesel: Fire extinguisher** – Water, foam, dry chemical powder, CO2**Unleaded petrol: Fire extinguisher** – Dry chemical powder, foam, CO2. Never use water to extinguish an Unleaded Petrol fire. | 2M | **Supervisors** to check all controls in place and followed**Operator** to follow controls and make Supervisor aware of any issues |
| Contact with fuel | 4A | * Avoid breathing vapours or contact with fuel
* Fuel splashed clothing should be changed immediately
* Do not siphon or swallow fuel as this can be fatal
* Carefully wash hands and do not eat, drink or smoke during/after-handling fuel
* Shower and wash immediately after work
* Wash clothes in separate wash from other clothes.
 | 2M |
| 1. **HRCW**

On completion | Water under pressure | 3H | * Turn off the water supply and allow any residual water to drain
* Keep the gun safety switch and trigger on so that water still runs out of the nozzle.
 | 2M | **Supervisor** to confirm all workers have signed out**Workers** to comply with controls |
| Contact with electricity  | 3H | * Electric-powered units:
* Disconnect the cleaner/extension leads from power point before winding up, so that you don't get a shock if the lead is damaged
* Inspect leads and power equipment for damage.
 | 2M |
| Burns | 3H | * Turn off the Water Jet Cleaner motor and allow all parts to cool down before storing the unit.
 | 2M |
| Security breach | 3H | * All personnel sign-out on Site Register.
 | 2M |
| Vehicle/people impact | 4A | * Stay to designated access and egress routes
* Maintain awareness of surroundings.
 | 2M |
| 1. Emergency response
 | * Injury
* Fatality
* Environmental damage
 | 4A | * **For police, fire or ambulance call '000.'**
* Follow site emergency and evacuation procedures
* A communication system is available, e.g. a mobile phone or radio
* Check for dangers to self before helping others
* Maintain control of the area and stabilise the situation
* Apply first aid to the injured worker
* Complete an incident report.
* ***Refer to your SWMS implementing instructions for further specific emergency responses****.*
 | 2M | **Supervisors** and **workers** ensure controls followed |

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| --- | --- | --- | --- | --- |
| **Overall Risk Rating after Controls** | **[ ]  1 - Low** | **[x]  2 - Moderate** | **[ ]  3 - High** | **[ ]  4 - Acute** |
| **Permits** | [ ]  Not applicable | [ ]  Hot Work | [ ]  Confined Space | [ ]  Local council | [ ]  Excavation | [ ]  Lift (crane) |
| [ ]  Working at height | [ ]  Restricted access | [ ]  Asbestos remediation | [ ]  Other? | [ ]  Other? | [ ]  Other? |
| **Plant & Equipment** |  | **Hazardous Substances** | **Supervisory Arrangements**  |
| [ ]  Electrical tools and leads | Tested and tagged quarterly | *List hazardous substances taken on-site and have the SDS on-site.*1.
2.
3.
4.
 | [ ]  Audits[ ]  Spot Checks[ ]  Reporting systems [ ]  Suitably qualified supervisors for job[ ]  Direct on-site supervision[ ]  Remote site: communication systems/schedule[ ]  Other? |
| [ ]  Hand tools - Meet AS/NZS | Regular visual inspection |
| [ ]  Ladders - Meet AS/NZS | Inspected and tagged out if damaged |
| [ ]  Mobile plant-*specify* | Inspected and tagged out if damaged |
| [ ]  ? |  |
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| **SWMS Sign-off** | This SWMS developed in consultation and cooperation with workers and relevant organisation representatives. I have read the above SWMS, and I understand its contents. I confirm that I have the skills and training, including relevant certification, to conduct the task as described.I agree to comply with safety requirements within this SWMS, including risk control measures, safe work instructions, and PPE described. |
| --- | --- |
| **Workers’ Name** | **Job Role / Position**E.g. Supervisor, Worker, Trainee | **Licences, competencies & qualifications** *(add as applicable)* | **Date** | **Signature** |
| **Type / Description** | **Class** | **Number** |
|  |  | Construction Card |  |  |  |  |
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| **HIERARCHY OF CONTROLS** | **Most Effective** |  | **Least Effective** |
| **Risk Matrix** |  |
| **Step 1: Determine Likelihood:** What is the possibility that the effect will occur? |  | **Step 2: Determine Consequence:** What will be the expected effect? |
|  | **Criteria** | **Description** |  | **Level of Effect** | **Example of each level** |
| **Almost certain** | Expected in most circumstances. | The effect is a common result. |  | **Insignificant** | No effect – or so minor that effect is acceptable. |
| **Likely** | Will probably occur in most circumstances. | The effect is known to have occurred previously. |  | **Minor** | Minor first aid treatment,minimal business disruption, minimal environmental effect. |
| **Possible** | Could possibly occur at some time. | The effect could occur. I’ve heard of it happening before. |  | **Moderate** | Serious injuries, medium business interruption, medium environmental impact. |
| **Unlikely** | Unlikely but possible. | The effect could occur, but I have not heard of it happening before. |  | **Major** | Extensive injuries/fatality, significant business interruption, environmental harm, prosecution. |
| **Rare** | Highly unlikely to occur. | The effect is practically impossible. |  | **Catastrophic** | Multiple permanent disability/fatalities, business failure, substantial environmental harm, prosecution/imprisonment. |
|  |  |  |  |  |  |
| **Step 3: Determine the risk score:** |  | **Step 4: Record risk** |
| **Effect****Likelihood** | **Insignificant** | **Minor** | **Moderate** | **Major** | **Catastrophic** |  | **Score** | **Action** |
| **Almost certain** | **2 Mod.** | **2 Mod.** | **3 High** | **4 Acute** | **4 Acute** |  | **4A: Acute****3H: High****2M: Mod.****1L: Low** | ***DO NOT PROCEED until risk level is reduced;***  immediately introduce high-level controls. *Re-assess before proceeding.* *Review before commencing work.* Introduce new controls and/or maintain high-level controls to lower the risk level. Controls are to be monitored frequently.*Maintain control measures.* Be caustious when working. Monitor and review regularly.*Record and monitor.* Proceed with work. Regularly review risks. |
| **Likely** | **2 Mod.** | **2 Mod.** | **3 High** | **4 Acute** | **4 Acute** |  |
| **Possible** | **1 Low** | **2 Mod.** | **2 Mod.** | **3 High** | **4 Acute** |  |
| **Unlikely** | **1 Low** | **1 Low** | **2 Mod.** | **3 High** | **4 Acute** |  |
| **Rare** | **1 Low** | **1 Low** | **2 Mod.** | **2 Mod.** | **3 High** |  |