

Testing And Pu	urifying Water Resources R	lisk Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU ON PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or ur	ndertaking PCBU required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project New			



RISK MATRIX							
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP
Assist Rating & Required Action: 4A Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisation is required. 3H Review and approve additional controls to accurate and efficiency proceed with caution; monitor conditions. 2M Ensure all nominated controls are in prace and efficiency donitor and keep records. 1L Proceed, following standard operating procedurer wonitor and keep records.							Notes on Hierarchy of Controls: Remember to apply controls in the preferred order shown by the coloured pyramid: 1. Eliminate 2. Substitute 3. Isolate 4. Engineering 5. Administrative 6. PPE
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat		Always document why a lower-order control is accepted if
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	elin Improvement notice; major media coverage alig		elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad	Winor breach; adverse client comment		work (2023) and ISO 45001:2018 clauses 6–8.
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance		
			no schedule	Deviation caught and corrected on site			



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Review Project Requirements	Misunderstood objectives, Incomplete data	ЗН	 Clarify project objectives with stakeholders Gather all necessary project data before proclouing Conduct a kickoff meeting with the project sam Document all project requirements Assign responsibilities for each task Schedule regular review meetings Verify data source for a supracy Ensure all form members we briefet Use specklisters confine all aspects covered Set us communication channels 	2M
2. Site Inspection	Geographical barriers, Hazardous wildlife		 Condul a preliminary essessment using satellite images Lee appropriate PE for site terrain Plan exerctions during daylight hours ave a first aid kit available Than staff in wildlife awareness Inform local authorities of site visits Employ experienced personnel for difficult terrains Use communication devices for remote areas Ensure detailed route and emergency contacts are documented Conduct inspections in pairs for safety 	ЗН
3. Transport Equipment	Equipment damage, Manual handling injuries	ЗН	 Use appropriate transport vehicles for heavy equipment Secure equipment properly during transit Conduct manual handling training Use equipment like trolleys for transport Perform pre-transport checks on all equipment Ensure all drivers have valid licences Use lifting aids whenever necessary Plan routes to avoid bumpy roads 	2M



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			- Implement regular maintenance checks on vehicles	
			- Establish a loading protocol to prevent overloading	
4. Setup Equipment	Electrical hazards, Trip hazards	ЗН		1L
5. Water Sample Collection	Contaminated water exposure, Slips and trips	ЗН		2M
6. Sample Transport to Lab	Insecure sample handling, Spills during transport	ЗН		2M



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7. Conduct Water Analysis	Chemical exposure, Equipment malfunction	4A		ЗН
8. Purification Process Design	Design flaws, Inaduce recovation	ЗН		2M
9. Equipment Calibration	Inaccurate calibration, Instrument failure	ЗН		1L

Version 2.5

Review #



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10. Implementation of Purification Systems	System integration issues, Contamination during installation	ЗН		2М
11. System Testing and Validation	Incorrect system operation, System leaks	ЗН		2M
12. User Training and Education	Misuse of systems, Lack of knowledge	ЗН		1L

Version 2.5



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13. Monitoring and Maintenance	Unnoticed system wear, Irregular maintenance	ЗН		2М
14. Emergency Response Preparation	Inadequate emergency procedures, Delayed response	4A		2M
15. Record Keeping and Reporting	Data loss, Incomplete records	2М		1L

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16. Post- Implementation Review	Overlooked improvements, Ineffective systems	ЗН		1L



EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE RE	EFERENCES					
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES. ANY STATE AT ARE NOT APPLICABLE						
Queensland & Australian Capital Territory Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 Legislation QLD: https://www.worksafe.gld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria Ordepational Health and Safety Action 4 Occupational Health and Safety Action 4 Decupational Health and Safety of gulations 2017 Legis from VIC: https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- rulations succession of the safety of the					
New South Wales Work Health and Safety Act 2011 Work Health and Safety Regulations 2017 Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislatic Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislatic	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>					
Northern Territory Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-supe-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formed-resources/compliance/workplace-supe-laws</u> South Australia	Safe Work Australia Links Law and Regulation (All States): https://www.safeworkaustralia.gov.au/law-and-regulation Model Codes of Practice Model Codes of Practice					
Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: https://www.safework.sa.gov.au/resources/legislation Codes of Practice for SA: https://www.safework.sa.gov.au/work_aces/codes-of-practice#COPs	 Managing noise and preventing hearing loss at work Confined spaces Labelling of workplace hazardous chemicals Managing risks of hazardous chemicals in the workplace Welding processes 					
Tasmania Work Health and Safety Act 2012 Work Health and Safety (Transitional and Consequential Provisions) Act 2012 Work Health and Safety Regulations 2012 Work Health and Safety (Transitional) Regulations 2012 Legislation for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice	 Weiting processes First aid in the workplace Managing the risk of falls at workplaces Hazardous manual tasks Managing the risk of falls in housing construction Managing electrical risks in the workplace Demolition work Excavation work Work health and safety consultation, cooperation and coordination 					
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work Any required documents	 Work health and safety consultation, cooperation and coordination Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 					

- Any required documents.