

Micro Tunneling Proced	ures   SAFE WORK METH	OD STATEMENT (SWMS)	
TASK O	R ACTIVITY: Micro Tunneling Pro	ocedures	
Business Name:		ABN:	SWMS#
Business Address:			
Contact Person:	Phone:	E ail:	
THIS SAFE WORK METHOD	STATEMENT IS APPROVED BY	THE PC. 'OF TP' ROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a person conduthe proposed work starts.			statement (SWMS) is prepared before
Full Name:			
Signature:		Title:	Date:
Details of the person(s) responsible for ensuring implementation, monitoring	compliant e of the SWIL as well as re	eviews and modifications of the SWMS.	
Full Name:	<i>                   </i>	Title:	Phone:
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS VMS HAVE THE FOLLOWING COMMUNICATED	NA. 2 OF ALL RELEVANT PERSONN EVELOPMENT AND APPROVAL OF	NEL WHO HAVE BEEN CONSULTED AND F THIS SWMS	COMMUNICATED TO IN THE
Safety meetings or toolbox talks will be sched ed in according e with egislative requirements to first identify any site hazards, to contain the those hazards and then to further take steps to either eliminate or contained in the schedule of the schedule			
If an incident or a near miss occurs, all work must standardly. Depending on the severity of the incident, a meeting will be called with all workers to amend the SWMS if required. The meeting may also be an educational opportunity.			
Any changes made to the SWMS after an incident or a near miss must be approved by the Person Conducting Business or Undertaking and communicated to all relevant personnel.			
The SWMS must be kept and be available for inspection at least until the work is completed. Where a SWMS is revised, all versions should be kept. If a notifiable incident occurs in relation to which the SWMS relates, then the SWMS must be kept for at least two years from the occurrence of the notifiable incident.			



CLIENT OR PRINCIPAL	CONTRACTOR DETAILS
Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date SWMS supplied to Project Manager:	
ANY HIGH-RISK CONSTRUCTOR	ON WC & BEIN C & RIED OUT
involves a risk of a person falling more than 2 meters	is carried out on or near pressurised gas mains or piping
☐ is carried out on a telecommunication tower	carried out on or near chemical, fuel or refrigerant lines
☐ involves demolition of an element of a structure that is load-hearing	☐ is carried out on or near energised electrical installations or services
☐ involves demolition of an element related to the physical interrity structure	☐ is carried out in an area that may have a contaminated or flammable atmosphere
☐ involves, or is likely to involve, disturbing as	☐ involves tilt-up or precast concrete
involves structural alteration or repair the requires to rary so port to prevent collapse	☐ is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor
☐ is carried out in or near a confined space	☐ is carried out in an area of a workplace where there is any movement of powered mobile plant
is carried out in/near a shaft or trench deeper an or tunnel involving use of explosives	☐ is carried out in areas with artificial extremes of temperature.
is carried out in or near water or other liquid that involves a risk of drowning.	involves diving work.
ANY HIGH-RISK MACHINER	Y OR EQUIPMENT NEARBY



RISK MATRIX										
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION		HEIRARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	SCORE	SCORE	ACTION		Elimination Remoy e the hazard.
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCE		Substitution	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.		Replace the hazard.	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.		Isolation Isolate People from the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	nitor and records		Engineering Isolate the hazard.	
is the second m	archy of Controls: nost effective methologing the work is	od of controlling a	a hazard. Engine	ering by isolat	ion is the nost of	e. tive, while	ard. Substitution e Administrative least effective		Administrative Change the work.	

						TIVE EQUIPM					
		Select the app	propriate PPL	abo suitak	ok for the equip	oment used or	the job task	being perfori	med (if applica	able).	
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION	THE ARING STION	P _cCTION	PROTECTION	FACE PROTECTION	HIGH-VIS CLOTHING	PROTECTIVE CLOTHING	FALL PROTECTION	SUN PROTECTION	HAIR/JEWELLERY SECURED
Other PPE R	equired:										
	Pe	ermit or Licen	ses Requirem	ients		Mandatory Qualifications and Training					



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.Preparation	Slips, trips and falls, Noise exposure	2M	<ul> <li>Conduct a thorough site inspection to idea by potential slip, trip, and fall hazards and remove or mark any obstacles prior to commencing work.</li> <li>Ensure all workers are trained in safe walking or a ses and aware of the specific slip, trip, and fall risks associated with the site.</li> <li>Provide appropriate person a protective equipment (PP or such as steel-toed boots and high-visibility clothing, to all worker to help a ovent slips and fall.</li> <li>Install adequate alghting wall are not the site of ensure visibility and reduce the risk of trips and falls, especially doing low-light undition.</li> <li>Mairo in a clear worker by implementing a regular housekeeping schedule to promptly remove debris, tools an equipment of particles and minimis of the sk of a ordents.</li> <li>Limit exposure to noisy equipment by providing hearing protection such as earplugs or earmuffs and exposure to noisy equipment by providing hearing protection such as earplugs or earmuffs and exposure for workers and extending non-peak hours whenever possible to reduce overall noise possure for workers on site.</li> <li>Conduct regular noise monitoring to assess sound levels and implement engineering controls, such as noise barriers or enclosures, where feasible to reduce excessive noise exposure.</li> <li>Rotate tasks among workers to limit prolonged exposure to noise and ensure adequate rest breaks are provided to allow recovery from high-noise environments.</li> </ul>	1L
2.Site setup	Contact with traffic, Dust inhalation	ЗН	<ul> <li>Implement traffic management plans including signage, barriers, and detours to reduce interaction with active traffic.</li> <li>Use high-visibility clothing for all personnel working near or within the vicinity of traffic.</li> <li>Install temporary fencing around the site to keep unauthorised personnel away from potential hazards.</li> <li>Schedule work during off-peak hours if possible to minimise exposure to moving vehicles.</li> <li>Arrange spotters to monitor and direct vehicle and equipment movements on-site.</li> <li>Conduct safety briefings to inform the team about specific traffic-related risks and procedures before commencing work.</li> <li>Use dust suppression methods such as water spraying or dust extractors to minimise airborne particles.</li> <li>Provide appropriate personal protective equipment (PPE) like dust masks or respirators to protect against inhalation of dust.</li> <li>Regularly maintain and inspect machinery to ensure proper operation and avoid excessive dust emission.</li> </ul>	2M



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS  - Monitor air quality levels continuously to ensure they remain within safe limits throughout the project.  - Establish a clear communication protocol for reporting and responding to traffic and dust-related incidents immediately.	RESIDUAL RISK
3.Communicating with the Drill Operator	Distraction, Equipment failure	2M	<ul> <li>Conduct a comprehensive pre-drill briefin to outline the procedure and highlight critical safety concerns.</li> <li>Establish clear communication protocols us to be a signals, radios, or other reliable communication devices.</li> <li>Ensure all personnel are traced in the use of communication equipment and understand emergency procedures.</li> <li>Regular inspector and to intensive of communication devices to ensure proper functionality and avoid equipment force.</li> <li>Implement an eddy sworm where a cond person assists with communication to provide verification and connect at the codetail.</li> <li>Set to a signate oreas for the drill operator and communicator to minimise noise interference and distractions.</li> <li>Use personal cotective equipment, such as noise-canceling headsets, to reduce ambient noise and evance forms sation clarity.</li> <li>Limits cass to the drill area to authorised personnel only to reduce potential distractions.</li> <li>swiew and practice emergency shut-down procedures regularly to prepare for unexpected equipment failure.</li> <li>Monitor communication paths for signal obstructions and take necessary actions to maintain clear lines of communication.</li> <li>Schedule regular breaks during operations to prevent fatigue-related distractions and maintain alertness among team members.</li> </ul>	1L
4.Drilling pilot bore	Noise exposure, Contact with rotating machinery	3Н		1L



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5.Installing casing pipe	Crushing injuries, Strains and sprins	ЗН		



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6.Receiving slurry	Splash hazard, Dermatitis	ЗН		2M
7.TBM removal	Crushing injuries, Slips and falls	3Н		2M



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8.Pit decommissioning	Injury from equipment or falling objects, Soil collapse	ЗН		1L
9.Removing drilling fluid	Exposure to chemicals, Lifting heavy loads	4A		2M



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10.Cleaning and maintenance	Disease transmission, Electrical shock	ЗН		2M



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
				•
11.Storage and handling of materials	Musculoskeletal injuries, Fires	2M		1L



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12.Transportation of equipment and materials	Vehicle incidents, Manual handling injuries	ЗН		2M
13.Final site clean up	Exposure to hazardous substances, Cuts and scrapes	2M		1L



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14.Documentation and Reporting	Incorrect information Microwall Summer ion	1L		1L
15.Emergency Procedures	Lack of first aid knowledge, Panic	3H		2M



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
16.Disassembling operations	Machinery entanglement, Crushing Injuries	4A		2M



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
17.Waste management	Exposure to hazardous substances, Fires	2M		1L



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
18.Restoration and site rehabilitation	Trip hazards, Topsoil erosion	2M		1L
19.Closure of the operation	Equipment failure, Misplacement of tools/equipment	2M		1L



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20.Post operational review	Ineffective communication, Missed data/errors in documentation	2M		1L



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK





#### **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 REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCE. IN ANY STAFF THAT ARE NOT APPLICABLE

#### Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.qld.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-practi

### 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/legis

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library.

#### **Northern Territory**

Work Health and Safety (National Uniform Legislation) Act 201

Work Health and Safety (National Uniform Legislation) Regulations 26

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/prkplate fety-lay

Codes of Practice NT: https://worksafe.nt.gov.av and-reso per des ractice

#### South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (S

Legislation for SA: https://www.safework.sa.gov.au/resources\_gislation

Codes of Practice for SA: https://www.safework.sa.gov.au/w/\_places/codes-of-practice#COPs

#### 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/acts-and-regulations

Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice

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.

#### Victoria

Ocupational Health Safety A 2004

Oct ational Health an Safe\* regulations 2017

- Legis ion VIC: https://www.orksafe.vic.gov.au/occupational-health-and-safety-act-and-
- des of actice VI attps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice

#### Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: https://www.commerce.wa.gov.au/worksafe/legislation

Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/codes-practice

#### Safe Work Australia Links

Law and Regulation (All States): <a href="https://www.safeworkaustralia.gov.au/law-and-regulation">https://www.safeworkaustralia.gov.au/law-and-regulation</a> Model Codes of Practice: <a href="https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice">https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice</a>

#### **Model Codes of Practice**

- 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
- 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
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work



#### SIGNATORIES OF THE SAFE WORK METHOD STATEMENT

The signed and dated personnel listed below have cooperated in the consultation and development of this Safe Work Method Statement which has been approved by the Person/s Conducting a Business or Undertaking (PCBU). In signing this Safe Work Method Statement each individual acknowledges and confirms that they have read this SWMS in full, having raised any questions for items on this Safe Work Method Statement that require clarification, and confirms that they are competent, skilled and knowledgeable for the task assigned to them. Every person acknowledges that they have received the relevant training and qualifications where required, before carrying out any work contained in this Safe Work Method Statement. By signing this Safe Work Method Statement each individual agrees to work safely, to follow any safe work instructions which are provided, and agrees to use all Personal Protective Equipment where appropriate.

Worker Name	Signature	Date

#### SAFE WORK IN 'THIS 'S' ITEM ON MONITORING AND REVIEW

The SWMS must be reviewed regularly to make sure it remain effect, and must be reviewed (and revised if necessary) if relevant control measures are revised. The view as should be carried out in consultation with workers (including contractors as unputractors of the SWMS and their health and safety registeratives who represented that work group at the workplace.

When the SWMS has been revised the PCBD mest ensure the all persons involved with the work are advised that a revision has been made and how they can accept the revised SWMS, including all persons who will need to change a work procedure or system as a rest of the review are advised of the changes in a way that will enable them to implement their duties the total with the revised SWMS. All workers that will be involved in the work must be provided with the relevant information and instruction that will assist them to understand and implement the revised SWMS.

The SWMS must be monitored regularly for the effectiveness of ensuring hazard controls are effective in reducing the risk of incidents, keeping the workplace safe for all personnel. The person responsible for monitoring the effectiveness of the Safe Work Method Statement should employ a multi-faceted approach which includes but is not limited to:

- Spot Checks.
- Consultation with workers, contractors and sub-contractors.
- 3. Internal audits on a continual basis

An approach of continuous improvement, promptly recording inconsistencies or deficiencies, followed up by immediate corrective action and consultation with all relevant personnel ensures that the PCBU is consistently developing ever-improving systems of safe work principles.

REVIEW NUMBER	1	2	3	4	5	6	7
NAME							
INITIALS							
DATE							



#### SAFE WORK METHOD STATEMENT REVIEW CHECKLIST

This Safe Work Method Statement Review Checklist is to be followed and used upon initial development of the SWMS to help ensure that all steps have been adequately taken before work commences. Think of this document as an internal audit review checklist before commencing work, and may form part of a Toolbox Talk (safety meeting) and may be used as an opportunity for education and training.

ITEMS WHICH MUST BE INCLUDED IN THE SWMS	COMPLETED	COMMENTS
The company details have been entered, including the project name and address.		
All relevant personnel consulted during the development of the SWMS.		
Name, signature, position and date signed of the person approving the SWMS.		
Specific personnel and qualifications, experience is noted in the SWMS.	7	
Provides a step-by-step process of tasks required to carry out the activity or task.		
Adequate risk assessment of any identified hazards has been completed.		
Foreseeable hazards are identified and documented for each step.		
Any hazards listed in any site risk assessments have been added to the SV 5.		
SWMS initial risk (IR) column as well as residual risk (RR) column ampleted.		
Check control measures added to the SWMS are the most effer ve secutions.		
Responsible person is assigned and listed on the splenetation of control measures.		
Permit or licenses requirements specified, so in as Hot Work, Electrical Work, Work at Heights etc.		
SWMS identifies plant and equipment to be		
Details of inspection checks required for any equipment lister are noted on the SWMS.		
Describes any mandatory qualifications, experience, and or skills required to perform the work.		
Applicable personal protective equipment is selected on the SWMS.		
Reflects and documents any legislative references and/or Australian Standards.		
Identifies any hazardous substances used with specific control measures in line with any SDS.		
REVIEWED BY	DATE REV	/IEWED
SIGNATURE	DATE COM	PLETED