

SAFE WORK METHOD STATEMENT	SWMS Working in an area that may have a Contaminated or Flammable Atmosphere							
Reference documents	Work Health & Safety Act 2011, Work Health & Safety Regulation's 2017. Codes of Practice - How to manage work health and safety risks August 2019, Work health and safety consultation, cooperation and coordination August 2019, Confined Spaces August 2019 P20 Inspection, Testing, and Monitoring, P16.F01 Confined Spaces – Permit to Work, P16.F02 Site Confined Space / Controlled Space Register, P25.F01 Hot Work – Risk Assessment Checklist, SWMS 1384 Confined Space Work, P28 Energy Isolation and Barricading							
SWI:	3 11	SWI191 – Tag out, SWI23 – Gas Detector – use	and maintenance					
Training and Competencies	General construction induction (white card), Si	te specific induction, Confined Space Training.						
Safety data Sheets	As determined by SWMS							
Personal Protective Equipment	High visibility clothing, safety footwear, safety assessment.	glasses, task appropriate gloves, hard hat, additi	onal P.P.E to be determined by risk					
Plant and Equipment	Gas detector, harness, karabiner and as deter	mined by task						
Inspection and Testing	Prestart checks on all equipment							
Hazardous Chemicals and Dangerous Goods	As required							
High Risk Work	☐ Where there is a risk of a person falling more than two metres.	☐ On in or adjacent to roadways, railways, shipping lanes or other traffic corridor.	☐ In, over or adjacent to water or other liquids where there is a risk of drowning.					
Indicate if any of the HIGH-risk activities are performed by workers	☐ At workplaces where there is any movement of powered mobile plant.	☐ Involving the use of explosives.	☐ In an area where there are artificial extremes of temperature.					
WOINEIS	☐ On or near energised electrical installations or services.	☐ Involving a trench or shaft if the excavated depth is more than 1·5 metres.	☐ On or near pressurised gas distribution mains or piping.					
	☐ Involves structural alterations or repairs that require temporary support to prevent collapse.	☐ Involving a confined space.	☐ On or near chemical, fuel, or refrigerant lines.					
	☐ Involving tilt-up or precast concrete.	☐ On telecommunications towers.	☐ Involving diving.					
	 □ Involving removal or likely disturbance of asbestos. □ Involving a tunnel. 		☐ Involves demolition of an element of a structure that is load bearing or otherwise related to the structural integrity of the structure.					

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SWMS Prepared by:	Name and signature:		Date:	
Authorised by:	Name and signature:		Date:	
Persons Responsible for Ensuring Compliance with SWMS:				
Methods used to Ensure Compliance with SWMS:				
Persons Responsible for Reviewing SWMS Control Measures:				
When should Risk Control Measures be reviewed:				
Review Date:		Reviewer's Signature		

*SWMS are to be reviewed as per the Document Control Procedure or when there has been a change to the Task / Process or Legislation.

Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
Pre-Start	Lack of information to workers	Injury or illness	н	 Pre-start briefing to ensure all staff are fully aware of the scope of work before work commences. Ensure all persons have undertaken site specific induction. Conduct a Site-Specific Risk Assessment. 	Supervisor	L
	Inexperienced personnel	Injury or death Property damage	Н	 Ensure all workers are trained and competent for the task before commencing on site. Ensure P.P.E is rated and/or capable of the environment. 	Supervisor and Competent person	L
Public Safety / Pedestrians	Public may be at risk from an environment	Serious Injury or illness		 Keep unauthorised person out of the site. Pedestrian signage is to be installed. 		

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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
	that have an artificial extreme		Н	 Instigate traffic management plans if necessary. Reduce vehicle speed around the work sites. Where required, clearly signed alternative safe laneways shall be made available for pedestrians. Laneways crossing kerb and channelling shall have non-slip ramps suitable for wheelchairs, baby strollers, pedestrian scooters and aged or disabled persons. Plan and use safe vehicle access. Schedule working hours to limit exposure to the public. 	Supervisor and workers	L
Contaminated Atmosphere	Dangerous fumes Hazardous substances Harmful atmosphere Unsafe oxygen levels Airborne contaminants Chemical exposure	Death Serious injury Illness or disease Long term health issues	E	 Ensure there are no unsafe levels of atmospheric contaminants Maintain oxygen at safe levels Do not use cleaning solvents in poorly ventilated areas. The concentration of flammable contaminant in the atmosphere is below 5% of its LEL. The atmospheric contaminants are reduced to below the relevant exposure standards Where the oxygen level is below 21% or atmospheric contaminants cannot be reduced below relevant exposure levels, entry may only occur with suitable PPE including supplied air. Entry shall not occur when flammable contaminants are greater than or 	Supervisor, Competent person, and workers	М

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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
				equal to 5% LEL or where oxygen exceeds 23.5%. Where a concentration of flammable contaminant is found to be more than 5% and less than 10% of its LEL, all persons must leave the confined space unless a continuous monitoring, suitably calibrated flammable contaminant detector is always used in the confined space while persons are present in it. Where a concentration of flammable contaminant in the atmosphere of a confined space is found to be 10% of its LEL or more, all persons must leave the work area. Identification of equipment to be worked on and any other equipment that may be affected. Energy isolation of the equipment, such as depressurisation and disconnection. Removal of hazardous substances in the immediate work area that may be impacted by the work. Preparation of piping such as sewers, drain that may have the presence of hazardous or flammable substances. Provision of appropriate rescue or fire-protection equipment where required, Atmospheric testing of the work environment for the flammable or hazardous vapours and oxygen content. If work stops for a period of more than one hour a new gas test will be required.		

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Flammable Atmosphere	Dangerous fumes Hazardous substances Harmful atmosphere Engulfment	Death Serious injury Burns	E	 Ensure there are no unsafe levels of atmospheric contaminants Ensure the concentration of flammable contaminant in the atmosphere is below 5% of its LEL and the atmospheric contaminants are reduced to below the relevant exposure standards. Where the oxygen level is below 21% or atmospheric contaminants cannot be reduced below relevant exposure levels, entry may only occur with suitable PPE including supplied air. Entry shall not occur when flammable contaminants are greater than or equal to 5% LEL or where oxygen exceeds 23.5%. Where a concentration of flammable contaminant is found to be more than 5% and less than 10% of its LEL, all persons must leave the confined space unless a continuous monitoring, suitably calibrated flammable contaminant detector is used in the confined space at all times while persons are present in it. Where a concentration of flammable contaminant in the atmosphere of a confined space is found to be 10% of its LEL or more, all persons must leave the work area. Identification of equipment to be worked on and any other equipment that may be affected Energy isolation of the equipment, such as depressurisation and disconnection 	Supervisor, Competent person, and workers	M

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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
				 Removal of hazardous substances in the immediate work area that may be impacted by the work. Preparation of piping such as sewers, drain that may have the presence of hazardous or flammable substances. Provision of appropriate rescue or fire-protection equipment. Where required, atmospheric testing of the work environment for the flammable or hazardous vapours and oxygen content. If work stops for a period of more than one hour a new gas test will be required. 		
Trench Work	Trench collapsing	Risk of workers being buried or crushed causing death or injury. Risk of engulfment by gas or liquids.	E	 Dial before you dig If work is to be performed the SWMS1414 Excavating work deeper than 1.5m is required. SCC Permits to work are in place. 	Supervisor, Competent person and workers	М
Completion of work	Energy services/ stored energy Confined space Traffic Management Plant and equipment	Death Serious injury	Н	 Competent person completes deisolation of services Worker safely exits the confined space All equipment is removed from the confined space Standby person maintains visual and communication Ensure gas monitoring continues throughout the exit process Close manhole lid or openings as soon as possible 	Supervisor, Competent person and workers	L

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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
	Storage of safety equipment Lack of communication			 Spotters and traffic control to be used for plant and equipment to exit the site Complete SCC Permit to work and return to Supervisor (if applicable) Open trenches have been covered and/or barricaded Advise stake holders of work site status Appropriately dispose of any rubbish or unwanted materials Ensure safety equipment is stored in clean and protected bag or other secure location Any faulty equipment is tagged out of service and reported Any hazardous materials are contained and disposed of correctly 		



	E=EXTREME H=HIGH M=MEDIUM L=LOW							
LIKELIHOOD How likely is it to	← CONSEQUENCES – How severely could it affect health and safety? →							
happen? ↓	CATASTROPHIC Kill or cause Permanent Disability	MAJOR Serious Illness or Injury	MODERATE Medical Attention, Time off Work	MINOR First Aid Required	INSIGNIFICANT No Injuries			
ALMOST CERTAIN Is expected to occur	E	E	н	н	М			
LIKELY Will probably occur	E	н	н	M	М			
POSSIBLE Might occur	н	н	н	М	L			
UNLIKELY Could occur	н	M	М	L	L			
RARE May occur only in exceptional circumstances	н	M	М	L	L			

Risk Level	Required Action
Extreme	Act immediately : The proposed task or process activity must not proceed. Steps must be taken to lower the risk level to as low as reasonably practicable using the hierarchy of controls.
High	Act today: The proposed activity can only proceed, provided that: The risk level has been reduced to as low as reasonably practicable using the hierarchy of controls. The risk controls must include those identified in legislation, Australian Standards, Codes of Practice etc. and The document has been reviewed and approved by the supervisor and A Safe Working Procedure or Safe Work Method has been prepared and The supervisor must review and document the effectiveness of the implemented risk controls
Medium	Act this week: The proposed task or process can proceed, provided that (i) The risk level has been reduced to as low as reasonably practicable using the hierarchy of controls and The document has been reviewed and approved by the supervisor and A Safe Working Procedure or Safe Work Method has been prepared.
Low	Act this month : Managed by local documented routine procedures which must include application of the hierarchy of controls.

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Acknowledgement register

All workers are to sign this register to indicate they have read and understood this document prior to commencing work.

Name	Signature	Date	Name	Signature	Date

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