

| Culvert And | d Drainage Installing Risk A | Assessment | |
|---|----------------------------------|----------------------------------|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema | |
| | 1 | | |
| THIS RISK ASSESSI | MENT IS APPROVED BY THE PC | BU ON W PROJECT | |
| Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBU required to ensu | re that a RISK ASSESSMENT |
| Full Name: | | | |
| Signature: | | ritle: | Date: |
| | | | |
| CL | OR PRI, CIL L. CO. TRACTOR I | DETAILS | |
| Client: | | SCOPE OF | WORKS |
| Project Name: | | | |
| Project Address: | | | |
| Project Manager: | | | |
| Contact Phone: | | | |
| Date Risk Assessment supplied to Project In. | | | |

Version 2.5 Authorised by Review # Review Date:



RISK MATRIX LIKELIHOOD INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY **MODERATE** HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

Risk Rating & Required Action:

| 4A | Stop work. The risk is intolerable, | minate the hazard | redesign the activity before proceeding. A Safe Work |
|----|---------------------------------------|------------------------|--|
| | Method Statement (SWMS) or hime | er-level authorisation | is required. |
| 3H | Review and approve additional c | role 'ask | arts. Senior supervisor sign-off needed. |
| 2M | Ensure all nominated controls are in- | prace and effective | Proceed with caution; monitor conditions. |
| 1L | Proceed, following standard operating | ig procedure // Ion | itor and keep records. |

Consequence Scale:

| Consequence | People (injury/illness) | Project / Assets | Compliance / Reputation |
|---------------|---|--------------------|--|
| Catastrophic | Fatality or permanent total disability | project shutdown | Significant regulator intervention; criminal prosecution |
| Major | Serious injury/illness (hospital > 5 days) | critical delay | Improvement notice; major media coverage |
| Moderate | Medical-treatment injury; lost-time > 1 day | moderate delay | Minor breach; adverse client comment |
| Minor | First-aid only, no lost time | negligible delay | Isolated non-conformance |
| Insignificant | No injury | no schedule impact | Deviation caught and corrected on site |

Notes on Hierarchy of Controls:

Remember to apply controls in the preferred order shown by the coloured pyramid:

- 1. Eliminate
- Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. PPE

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.



| 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. Project-Setup | Stakeholder Miscommunication, Inadequate Resource Allocation | 3H | - Conduct detailed project briefing sessions - Establish clear communication channels - Ensure resource allocation is reviewed by anagement - Implement a project management software incirations - Engage with stakeholders regularly to align exportations - Appoint a project coordinators coversight - Set contingency communications shortages - Schedule regular status in lettings - Utilizera task somagement system for a source allocation - Definitions and a ponsibilities clearly | 2M |
| 2. Site-Inspection | Uneven Terrain, Environment Hazard | 31 | - Condula a colorehea de site survey Lantify and man hazardous areas Use a priate personal protective equipment (PPE) Lasignate safe walkways and regions - Consider local wildlife and ecosystems - Liaise with environmental experts if necessary - Map out drainage paths and exit routes - Document and communicate all risks identified - Coordinate with local councils for site specifics - Restrict entry to non-essential personnel | 2M |
| 3. Equipment-Delivery | Heavy Equipment Movement, Inadequate Storage | 4A | - Plan delivery during off-peak traffic times - Secure dedicated areas for equipment storage - Use cranes and forklifts with trained operators - Mark out routes and provide spotters for navigation - Inspect all equipment upon delivery - Ensure proper organisation of deliveries - Implement a checklist for equipment inspections - Restrict unauthorised personnel from entering delivery zones | 3Н |



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| | | | - Secure heavy equipment with appropriate tools | |
| | | | - Provide additional training where necessary | |
| 4. Personnel-Training | Training Shortfalls, Skill Deficiencies | 3H | | 1L |
| 5. Excavation | Subsurface Utilities Collapse of Excavation Walls | 4A | | 2M |
| 6. Drainage-Pipe- Installation | Material Handling, Incorrect Joint Sealing | ЗН | | 2M |



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| | | | | |
| 7. Culvert-Placement | Structural Misalignment, Crane Operation Hazards | 4A | | 2M |
| 8. Backfilling | Trench Collapse, Airborne Dust | ЗН | | 1L |
| 9. Compaction | Equipment Vibration, Noise Exposure | 3H | | 2M |



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| | | | | |
| 10. Final-Inspection | Unidentified Deficiencies, Incomplete Documentation | ЗН | | 1L |
| 11. Landscaping-And- Site-Restoration | Environmental Impact, Posource Mismanagement | ЗН | | 2M |
| 12. Traffic-Management | Vehicle-Pedestrian Collisions, Improper Signage Use | 4A | | 2M |



7

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| 13. Waste-Management | Hazardous Waste Handling, Inadequate Disposal | зн | | 2M |
| 14. Utility- Reconnections | Electrical Shock, Gas Leaks | 4A | | 2M |
| 15. Final-Clean-Up | Slips And Trips, Injury from Debris | 3H | | 1L |



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| 16. Sign-Off-And- Completion | Documentation Errors, Stakeholder Disatisfaction | ЗН | | 2M |
| 17. On-Going- Maintenance | Resource Shortfall, Response Delays | ЗН | | 1L |



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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 REFERENCES. ANY STATE OF 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.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-practice

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/legislati

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Codes of Practice NT: https://worksafe.nt.gov.au/f

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

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

Codes of Practice for SA: https://www.safework.sa.gov.au/work_aces/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

Occupational Health al. Safety Act

Occupational Health and afety gulations 2017

Legis on VIC: https://www.ksafe.vic.gov.au/occupational-health-and-safety-act-and-

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des on actice VI autros://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): https://www.safeworkaustralia.gov.au/law-and-regulation Model Codes of Practice: https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice

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