

| Excavatir  | ng Under The Crane Risk A        | ssessment                        |                            |
|--|----------------------------------|----------------------------------|----------------------------|
| Business Name:   |                                  | ABN:                             |                            |
| Business Address:  |                                  |                                  |                            |
| Contact Person:  | Phone:                           | Emai                             |                            |
|  |                                  |                                  |                            |
| THIS RISK ASSESS   | MENT IS APPROVED BY THE PC       | BU OF TH PROJECT                 |                            |
| Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBU required to ensu | ire that a RISK ASSESSMENT |
| Full Name:   |                                  |                                  |                            |
| Signature:   |                                  | intle:                           | Date:                      |
| CLY  |                                  | DETAILS                          |                            |
| Client:  |                                  | SCOPE OF                         | WORKS                      |
| Project Name:  |                                  |                                  |                            |
| Project Address:   |                                  |                                  |                            |
| Project Manager:   |                                  |                                  |                            |
| Contact Phone:   |                                  |                                  |                            |
| Date Risk Assessment supplied to Project New York  |                                  |                                  |                            |



|   |   |                     |                                       | F                  | RISK MATRIX                               |   |  |
|---|---|---------------------|---------------------------------------|--------------------|---|---|--|
| LIKELIHOOD  | INSIGNIFICANT                                     | MINOR               | MODERATE MA                           | JOR CATASTROPH     |   |   | HIERARCHY OF CONTROLS  |
| ALMOST<br>CERTAIN   | 3<br>HIGH   | 3<br>HIGH           |                                       | 4 4<br>JTE ACUTE   | SCORE                                     | ACTION                                  | Elimination<br>Remove the hazard.  |
| LIKELY  | 2<br>MODERATE                                     | 3<br>HIGH           | U U U U U U U U U U U U U U U U U U U | 4 4<br>JTE ACUTE   | 4A<br>ACUTE                               | DO NOT<br>PROCEED                       | Substitution<br>Replace the hazard.<br>Isolation   |
| POSSIBLE  | 1<br>LOW  | 2<br>MODERATE       |                                       | 4<br>JTE ACUTE     | 3H<br>HIGH                                | Rev before<br>work art                  | Isolate People from the<br>hazard<br>Engineering<br>Isolate the  |
| UNLIKELY  | 1<br>LOW  | 1<br>LOW            |                                       | 3 Z<br>GH ACU E    | MC RATE                                   | Ensure control<br>measures in<br>place. | Activité<br>istrativ<br>e<br>Chang   |
| RARE  | 1<br>LOW  | 1<br>LOW            |                                       | 3<br>GH H. 1       | 1L<br>LOW                                 | Monitor and keep records.               | PP   |
| <ul> <li>Risk Rating &amp; Required Action:</li> <li>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 authorisatic is required.</li> <li>3H Review and approve additional controls the compact and effective. Proceed with caution; monitor conditions.</li> <li>1L Proceed, following standard operating procedurer Monitor and keep records.</li> <li>Consequence Scale:</li> </ul> |   |                     |                                       |                    |   |   | 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<br>ator intervention; c |   | Always document why a lower-order control is accepted if   |
| Catastrophic<br>Major   | Fatality or perma<br>Serious injury/illr<br>days) |                     |                                       | wn prosecution     | tice; major media                         |   | elimination or substitution is not reasonably practicable.<br>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 | Minor 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<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS  | RESIDUAL<br>RISK |
| 1. Preparation             | inadequate planning, lack of communication       | ЗН              | <ul> <li>Conduct a pre-start meeting with all personnel to divuss the excavation plan.</li> <li>Ensure all documentation and permits are up used ate and available.</li> <li>Establish clear communication channels upong the crass operator, spotter, and excavation team.</li> <li>Provide a site map identifying all underground encles.</li> <li>Confirm all personnel have acceived appropriationaining.</li> <li>Use signage to indicate the work zone boundaries.</li> <li>Schedule tasks downous erlaps occane and excavation operations.</li> <li>Provide high disbibility cloting to allour some.</li> <li>Designate a supervisione oversee the underence to the plan.</li> <li>Permit ungular up dox talks addressing specific excavation risks.</li> </ul>  | 2М               |
| 2. Site Assessment         | undetected utilities, unstable ground conditions |                 | <ul> <li>Engagua confied locum to identify all underground utilities.</li> <li>Engagua confied locum to identify all underground utilities.</li> <li>Engagua confied locum to identify all underground utilities.</li> <li>Concert exotechnical surveys to assess ground stability.</li> <li>Inplement a ground penetration radar (GPR) scan of the site.</li> <li>Maintain an exclusion zone around detected utilities.</li> <li>Limit access to high-risk areas to authorised personnel only.</li> <li>Use temporary ground stabilisation techniques if required.</li> <li>Conduct daily site inspections by a qualified engineer.</li> <li>Develop an emergency plan for utility strikes.</li> <li>Provide training on utility awareness and recognition.</li> </ul> | ЗН               |
| 3. Equipment<br>Inspection | equipment malfunction, improper<br>equipment use | ЗН              | <ul> <li>Create a checklist for daily equipment inspections.</li> <li>Ensure all heavy machinery is maintained as per manufacturer guidelines.</li> <li>Use qualified personnel to conduct equipment inspections.</li> <li>Tag out and report defective equipment immediately.</li> <li>Provide operators with training on equipment use and limitations.</li> <li>Verify load charts are available and understood by operators.</li> <li>Conduct function tests before the start of operations.</li> <li>Keep a logbook of equipment maintenance and inspections.</li> </ul>   | 2M               |

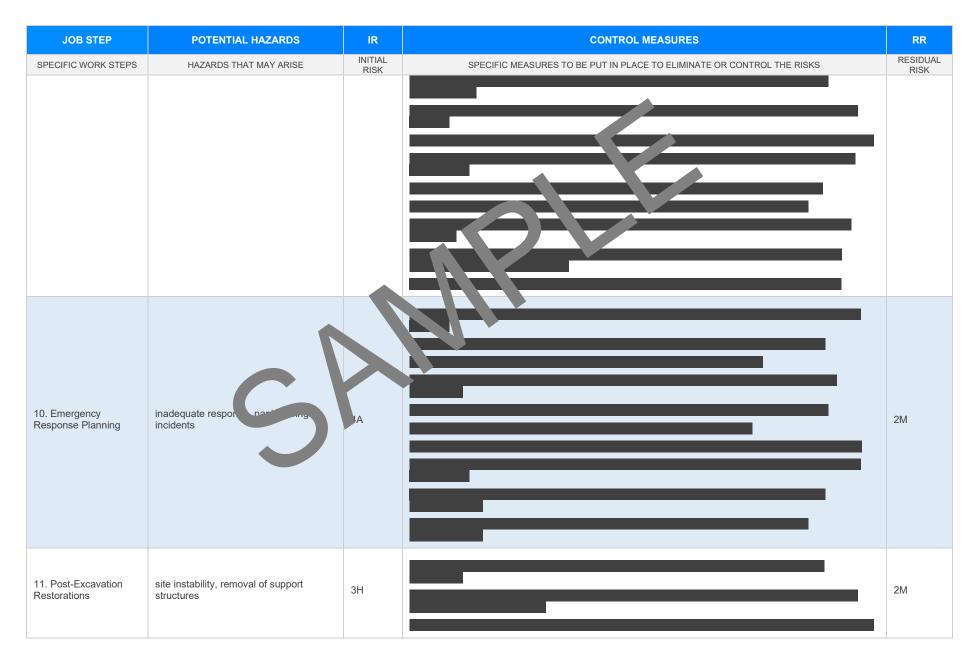


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| 4. Establishing<br>Excavation Perimeter | inadequate barriers, unauthorised access         | ЗН              | <ul> <li>Ensure emergency stop controls are operational.</li> <li>Inspect lifting gear for any signs of wear or damage</li> </ul> | 2M               |
| 5. Traffic Management                   | vehicular incident, collision wittee ne<br>loads | 4A              |   | 2M               |
| 6. Excavation<br>Commencement           | collapse of excavation, falling objects          | 4A              |   | ЗН               |



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|                                |  |                 |  |                  |
| 7. Monitoring and Assessment   | unexpected ground movement, changing conditions  | ЗН              |  | 2М               |
| 8. Crane Operation             | overloading, operator error                      | 4A              |  | 2М               |
| 9. Maintaining Site<br>Records | loss of documentation, inaccurate record keeping | 2M              |  | 1L               |





Version 2.5



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|                               |   |                 |  |                  |
| 12. Post-Work<br>Evaluation   | missed hazards, incomplete evaluation     | 21/4            |  | 1L               |
| 13. Worker Training<br>Review | skill gaps, unfamiliarity with procedures | ЗН              |  | 2M               |

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|  |   |                 |  |                  |
| 14. Equipment<br>Maintenance and<br>Review | wear and tear, non-compliance with safety standards | ЗН              |  | 2М               |
| 15. Communication<br>Enhancement           | miscommunication, delayed information updates       | 2М              |  | 1L               |



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|                     |                        |                 |  |                  |
|                     |                        |                 |  |                  |
|                     |                        |                 |  |                  |
|                     | S                      |                 |  |                  |



#### **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.

| RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGIS  | SLATIVE 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: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws">https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</a> Codes of Practice QLD: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice</a> Legislation ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</a> Codes of Practice ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</a> | Victoria<br>Occupational Health and Safety Actor 04<br>Occupational Health and Safety Actor 04<br>Decupational Health and Safety of gulations 2017<br>Legis from VIC: <u>https://www.worksafe.vic.gov.au/cocupational-health-and-safety-act-and-<br/>gulations</u><br>Unles on mactice VIC <u>attps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</u>                                    |  |  |  |  |  |
| New South Wales         Work Health and Safety Act 2011         Work Health and Safety Regulations 2017         Legislation NSW: <a href="https://www.safework.nsw.gov.au/legal-obligations/legislati-codes">https://www.safework.nsw.gov.au/legal-obligations/legislati-codes</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislati-codes</a>  | Western Australia<br>Work Health and Safety Act 2020<br>Work Health and Safety Regulations 2022<br>Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u><br>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: <a href="https://worksafe.nt.gov.au/laws-and-compliance/wd">https://worksafe.nt.gov.au/laws-and-compliance/wd</a> place-         Codes of Practice NT: <a href="https://worksafe.nt.gov.au/laws-and-compliance/wd">https://worksafe.nt.gov.au/laws-and-compliance/wd</a> place-         Codes of Practice NT: <a href="https://worksafe.nt.gov.au/laws-and-compliance/wd">https://worksafe.nt.gov.au/laws-and-compliance/wd</a> place-  | Safe Work Australia Links<br>Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u><br>Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model-</u><br><u>codes-of-practice</u><br>Model Codes of Practice  |  |  |  |  |  |
| South Australia<br>Work Health and Safety Act 2012 (SA)<br>Work Health and Safety Regulations 2012 (SA)<br>Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legislation</u><br>Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_aces/codes-of-practice#COPs</u>  | <ul> <li>Model codes of Practice</li> <li>Managing noise and preventing hearing loss at work</li> <li>Confined spaces</li> <li>Labelling of workplace hazardous chemicals</li> <li>Managing risks of hazardous chemicals in the workplace</li> <li>Welding processes</li> </ul>  |  |  |  |  |  |
| 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: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations">https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations</a> Codes of Practice for TAS: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a>   | <ul> <li>Weiding processes</li> <li>First aid in the workplace</li> <li>Managing the risk of falls at workplaces</li> <li>Hazardous manual tasks</li> <li>Managing the risk of falls in housing construction</li> <li>Managing electrical risks in the workplace</li> <li>Demolition work</li> <li>Excavation work</li> <li>Work health and safety consultation, cooperation and coordination</li> </ul> |  |  |  |  |  |
| Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work   | <ul> <li>Work health and safety consultation, cooperation and coordination</li> <li>Managing the work environment and facilities</li> <li>How to manage work health and safety risks</li> <li>Managing risks of plant in the workplace</li> <li>Construction work</li> </ul>   |  |  |  |  |  |

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