|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| All foreseeable WHS and Environmental Hazards and Risks associated with the works must be assessed and allocated controls in this SWMS the Project Risk assessment is to be consulted in the compilation/review of this SWMS. All persons involved in the works must have been consulted in the development and/or modification or revision of this safe work method statement. This SWMS to be reviewed as required when changes in activity, system, design, variation, plant, legislative or company requirement is apparent or minimum every 3 months.  All high-risk activities are to be reviewed minimum monthly. | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| **Personnel Consulted on Development of SWMS:** | | Craig Simpson  Roy Simpson | | | Ryan Yeo  Jackson Gage | | | James Simpson  Leonard Pugh | | **Personnel Responsible for Monitoring and Reviewing this Activity:** | | | Roy Simpson  Craig Simpson | |
| **Emergency Contact Information** | | Site Manager:  Roy Simpson – 0439 504 979 | | | | Head Office:  02 4239 5900 | | | | **Personnel Responsible for SWMS implementation:** | | | Roy Simpson | |
| **SHEWMS Prepared By** | Melissa Simpson | | **Date Prepared** | DD/MM/YYYY | | | **Reviewed By** | Craig Simpson / Roy Simpson | **Date Reviewed** | | DD/MM/YYYY | **Next Review Date** | | DD/MM/YYYY |
| **Description of works** | Construction of a bridge | | | | | | | | | | | | | |
| **Legislation, Aust. Standards and**  **Codes of Practice/**  **Consulted:** | | Work Health and Safety Act NSW 2011  Work Health and Safety Regulation NSW 2017  Workplace Injury Management and Workers Compensation Act 1998  [WHS (Hazardous Manual Tasks) COP Aug 2019](https://www.legislation.gov.au/Details/F2016L00406)  WHS (Managing the Risk of Plant in the Workplace) COP Aug 2019  WHS (Excavation Work) COP Aug 2019  WHS (Construction Work) COP Aug 2019  WHS (First Aid in the Workplace) COP Aug 2019  WHS (Moving Plant on Construction Sites) COP 2004  WHS (Work near Overhead Power Lines) COP 2006 | | | | | | WHS (Managing noise and preventing hearing loss at work) COP Aug 2019  WHS (Managing the risk of falls at workplaces) COP Aug 2019  WHS (How to Manage Work Health and Safety Risks) COP Aug 2019  WHS (Work near Underground Assets - Guide) COP 2007  Australian Standard AS3600 Concrete Structures  Australian Standard AS1554 Structural Steel Welding  TfNSW QA Specification G22 – OH&S  TfNSW QA Specification R53 – Concrete for general works  TfNSW QA Specification R271 – Design & Construct Noise Walls  All documents listed above are kept at GC Civil Head Office – for a copy, please contact the Administration Manager) | | | | | | |
| **Risk Assessment reviewed: YES** | | | | | | | | **This is a High-Risk Construction Activity: YES** | | | | | | |
| **Plant and Equipment Required For this Activity:** | | | | | | | | | | **List of SOAs/VOCs Required to Operate Plant & Equipment** | | | | |
| Trucks, vehicles  Excavator / bobcat / front end loader  Crane  Mark out paint  Laser Level  Measuring equipment  Lifting equipment (slings, chains etc.) | | | | | Signs /Cones / bollards  Star pegs / sledge hammer  Sandbags  Barricades  Warning tape  Rock breakers  Long-handled shovels  Hand tools | | | | | Plant Operation - National License To Perform High Risk Work (Crane – CV)  Plant Operation - Verification of Competency (VOC) (Bobcat – LS, Excavation – LE)  Drivers Licence (Truck/Vehicles)  Licence to Perform Dogging  EWP Operator Licence  Working at Heights | | | | |
| **Specific Training Required for this Activity:** | | | | | | | | | | | | | | |
| Induction in this SWMS | | | | | WHS General Construction Induction Card | | | | | Fisheries Permit | | | | |
| **PPE (as required by task)** | | | | | | | | | | | | | | |
| Safety Vest – hi visibility  Head Protection - Hard Hat (where required)  Safety Boots | | | | | Eye Protection - Safety Glasses (AS1337) (where required)  Hand Protection - Gloves (where required)  Hearing Protection – Earmuffs / buds (where required) | | | | | Sun-screen, water container, insect repellent  hand wash, soap  First Aid Kit | | | | |
| **Plant and Equipment Inspections & Maintenance Required:** | | | | | | | | | | | | | | |
| Daily inspections of all Plant & Equipment using Checklist.  Maintain all plant & equipment in accordance with manufacturers Operators & Maintenance Manual and required all maintenance in GC Civil Maintenance Register Smartsheet | | | | | Daily inspection of PPE  Visual checks daily of safety barricades | | | | | Daily inspection of lifting equipment (chains, slings etc.)  Monthly test & tag of all electrical equipment | | | | |
| **Materials Used:** | | | | | | | | | | **MSDS Required:** | | | | |
| Fuel for refuelling  Modular bridge components | | | | | Concrete  Steel Bridge Members | | | | | Yes – stored in site shed and on electronic SDS register  Required on site with materials | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Hierarchy of Control:** | **Elimination** - *Highest level of Control* | | **Substitution** | **Engineering** | **Administration** | | **PPE** - *Lowest Level of Control* |
|  | | | | | | | |
| **NOTE: The above ‘Hierarchy of Controls’ must be considered and applied as part of the risk assessment process. Where ELIMINATION cannot be reasonably applied then, SUBSTITUTION, ENGINEERING, ADMINISTRATION and PPE can be considered as preferred controls in descending order.** | | | | | | | |
|  | | | | | | | |
| **ACCEPTANCE** | | **POSITION 1** | | **SIGNATURE** | | **DATE** | |
| We hereby accept the controls as detailed in this SWMS and confirm / controls will be implemented and complied with. | | GCC Senior Management Representative  Name: Roy Simpson | |  | | DD/MM/YYYY | |
| Accepted by Client’s Representatives | | Site Superintendent / Supervisor  Name: | |  | |  | |
|  | | Safety Representatives  Name: | |  | |  | |
|  | | Engineer  Name: | |  | |  | |
| **Notes**: 1 All relevant signatures must be obtained prior to the commencement of work. Obtain signatures in the order indicated | | | | | | | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| **1- 6 Acceptable 7 - 12 Acceptable with strict Control Measures or Short Duration 13 - 25 UNACCEPTABLE** | | | | | | | | | | | | | |
| **ITEM No.** | **POTENTIAL SAFETY AND ENVIRONMENTAL HAZARDS**  (what can go wrong) | | **Initial Risk Rating** | | | **Control Measures** | | | **Residual Risk Rating** | | | **PERSON RESPONSIBLE**  (to ensure management method is applied) | |
| **P X** | **C =** | **R** |  | | | **P X** | **C =** | **R** |  | |
| **Section 1 – General High-Risk Works (Applicable to all tasks, Plant Interaction, Working near Water, Hazardous Substances, Environmental Controls)** | | | | | | | | | | | | | |
| **General (Manual Handling, Back Injury, Slips/trips/falls, Hit by falling objects, Dust/fumes, Access/egress and property damage, Falling into open excavation, sunburn/bites, electrocution, bodily injury to ear/eye/mouth)** | | | | | | | | | | | | | |
|  | Manual Handling | | 3 | 3 | 9 | | * Warm up exercises * Mechanical Aids. i.e. trolley, pallet jack, vacuum operated lifting device, etc. * Team Lifts * Gloves (as required) * Appropriate lifting & bending techniques * Appropriate storage & loading areas * Park as close to work zone as possible | | 1 | 2 | 2 | Site Manager / All Workers | |
|  | Back Injury | | 4 | 3 | 12 | | * Warm up exercises. * Ensure stable footing and suitable balance * Avoid unnecessary twisting. Turn your feet, not your hips or shoulders. * Avoid reaching out. Handle heavy objects close to the body. Avoid a long reach out to the load. * Lift with a gradual, smooth motion without jerking. * Minimise the bending of the lower back and keep the knees bent * Whenever possible, the grip should be with the whole hand, not just the fingers. Use two hands where possible * Implement job rotation where practical | | 2 | 3 | 6 | Site Manager / All Workers | |
|  | Slips, trips & falls (e.g. uneven ground, falls from vehicle) | | 3 | 3 | 9 | | * Observe ‘No Go Zones’ * Walk around if possible * Inspect ahead for holes / washouts / embankments etc. * Nonslip tape below the bottom of doors, front mudguards, steps * Park on Level ground * 3 points of contact rule (entering/ exiting trucks) * Good housekeeping on back of trucks | | 1 | 2 | 2 | Site Manager / All Workers | |
|  | Dust / fumes – lung damage | | 3 | 4 | 12 | | * All workers to wear appropriate PPE as required by task * Water for dust suppression * Cease work if conditions are too windy * Dust suppression to be used and increased as required. Cover exposed surfaces / stockpiles if feasible. | | 1 | 4 | 4 | Site Manager / All Workers | |
|  | Sunburn, Rash | | 4 | 1 | 4 | | * All workers to wear appropriate PPE as required by task | | 1 | 1 | 1 | Site Manager / All Workers | |
|  | Fauna (Bites from Snakes, Spiders, etc.) | | 2 | 5 | 10 | | * Be aware of potential snake habitat areas (long grass, rocks, etc) & notify team if one is spotted * Long trousers, safety boots to be worn * Do not enter areas of overgrown vegetation – use machine to clear | | 1 | 5 | 5 | Site Manager / All Workers | |
|  | Electricity /tools – electrocution | | 3 | 5 | 15 | | * Train workers in the correct use of the equipment and supervise until they demonstrate they can operate the tool safely * Use tools and fittings to manufacturers recommendations * Ensure guards are in place prior to use * Check generators, motors and/or air compressors are in good working condition * Check power cables are tested and tagged and are in good condition, repair or replace as required * Use Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) to prevent electrocution | | 1 | 5 | 5 | Site Manager / All Workers | |
|  | Bodily Injury to Eye, Ear, Limb | | 3 | 2 | 6 | | * Wear appropriate PPE * Before use, ensure all tools have manufacturer’s guards installed and correctly operating. These guards shall not be removed or modified * All cutting blades shall be inspected prior to use to ensure they are sharp and free of damage | | 1 | 2 | 2 | Site Manager / All Workers | |
|  | Working at heights/fall from heights off the bridge deck | | 3 | 4 | **12** | | * Erect fall protection / temporary handrail to unprotected edges * Highlight edges with bunting * Provide access ladders /scaffold for safe ingress /egress from bridge deck * Toolbox height safety with all workers, including trip hazards near deck edges | | 1 | 4 | **4** | Site Manager / All Workers | |
|  | Unfit for work - under the influence of drugs or alcohol, etc. | | 3 | 5 | 15 | | * All personnel shall attend work in a fit and sober condition, free from the effects of drugs, alcohol and non-prescription medication. * Personnel to be aware that they may be subject to random or targeted testing for the presence of alcohol and drugs at any time. | | 1 | 1 | 1 | Site Manager / All Workers | |
|  | Failure to comply with the content and intent of this SWMS results in injury to persons or damage to equipment. | | 3 | 4 | 12 | | * Ensure work reflects the SWMS controls * Work is to cease in the failure of compliance * Personnel not complying with are to be retrained in this SWMS * Depending on severity, the foreman may choose to exclude the persons in breach of further work | | 1 | 2 | 2 | Site Manager / All Workers | |
| Plant & Vehicle Interaction | | | | | | | | | | | | | |
|  | Vehicle movements | | 3 | 5 | 15 | | * Ensure reversing alarms are working * All Vehicles / plant to be inducted * Make sure transport vehicle is on stable ground * Designate a competent person to direct transport vehicles and always maintain positive communication with driver * Make sure trucks can exit steep or muddy sites when empty * Follow VMP to provide clear access for vehicles to enter, exit and move on site * Establish exclusion zones to delineate workers on foot from vehicles * Never stand on the downhill side or directly behind a moving or unloading truck * Keep clear of the load gate when releasing the pin * Check for overhead wires, structures and branches especially when tipping * Spotter to be in place when tipping | | 1 | 5 | 5 | Site Manager / All Workers | |
|  | Incompetent Operators | | 2 | 3 | 6 | | * All operators shall be appropriately licensed and ticketed and shall display competency in the operation of the crane / plant, * Pre-starts to be completed prior to operating | | 1 | 3 | 3 | Site Manager / All Workers | |
|  | Personnel struck by machine / within swing zone | | 3 | 5 | 15 | | * All workers to wear appropriate PPE as required by task * Exclusion zone to be established and communicated around excavation as determined by the radius of swing zone of the excavator to delineate workers on foot from moving plant * remain outside this “Swing Zone” while the machine is operating unless required and trained to do so * Ensure operator is adequately trained and holds correct plant operation ticket * Always maintain positive communications between operator and spotters/ workers on foot (visual and verbal or UHF) * Spotter to be in place when machine is operating * Safety isolation switches shall not be overridden, modified or removed * Clearly signal intention to move into ‘Swing Zone’ of crane/machine and receive acknowledgement of this from machine/crane operator before entering this zone * While working in ‘Swing Zone’, crane/ machine to cease operation with hook resting on ground or suspended in a stationary position. | | 1 | 5 | 5 | Plant Operator / Spotter / Site Manager / All Workers | |
|  | Plant / vehicle Overturn (i.e. soft ground / ground collapse) | | 2 | 5 | 10 | | * Ensure vehicle / truck is parked on flat, level ground * Ensure locking pins of loading ramps are housed in appropriate hole on the deck of the truck or plant trailer * SWL to be clearly displayed on loading ramps. * Ensure the machine weight including any buckets or attachments fitted is less than the SWL of the loading ramps * Establish exclusion zones around plant operation. | | 1 | 5 | 5 | Plant Operator / All Workers | |
| Working near Water | | | | | | | | | | | | | |
|  | Machine entering water area being a creek, and becoming submerged | | 3 | 4 | 12 | | * When operating on a waterfront, be particularly aware of site conditions, water depths, weather conditions, personnel around you, and always maintain a pre-determined escape route | | 1 | 4 | 4 | Site Manager | |
|  | Fast flowing or moving water | | 3 | 4 | 12 | | * Coordinate activities to coincide with creek conditions and do not work during adverse weather conditions | | 1 | 2 | 2 | All Site Personnel | |
|  | Water becoming contaminated | | 3 | 5 | 15 | | * Coordinate concrete pours on dry weather days and normal creek conditions, preferably low flows * Refer to Concrete works section of this SWMS | | 1 | 3 | 3 | Site Manager | |
|  | Cold / Wet / Hypothermia | | 4 | 4 | 16 | | * Wear adequate layers of clothing as per weather conditions/seasons * Dry out clothing that may become wet | | 1 | 2 | 2 | All Site Personnel | |
| Hazardous substances and chemicals | | | | | | | | | | | | | |
|  | Poisonous and flammable gases, Skin irritation, burns | | 5 | 5 | 25 | | * Wear correct PPE to prevent skin and eye contact, inhalation of fumes or ingestion of substance * Train workers in correct use of any hazardous substances and chemicals * Ensure correct storage in a designated storage area * Follow the manufacturer’s recommendations on label and Safety Data Sheet (SDS) * Make sure first aid kits are available * Do not smoke or use any ignition sources near dry grass, combustible gases, or liquids * Wash hands after use and before eating, smoking, or using toilet | | 1 | 5 | 5 | Site Manager / All Workers | |
| Environmental Control | | | | | | | | | | | | | |
|  | Damage to environment | | 4 | 5 | 20 | | * Follow environmental control measures and procedures * Ensure refuelling of plant and equipment does not take place within 50m of any watercourse and only after equipment has cooled down * Ensure spill kit is present on site prior to refuelling * Ensure correct disposal of all contaminated material * Concrete washouts to be sized appropriately and cleaned up prior to forecast inclement weather | | 1 | 5 | 5 | Site Manager / All Personnel | |
|  | Accidental spill and leak (fuel / hydraulic) | | 3 | 4 | 12 | | * Report all incidents to supervisor * Spill kit must be made available and ready for use * Spill Procedure:   + Communicate to supervisor   + Consider the risk   + Cease the flow   + Contain   + Clean up   + Conclude incident report | | 2 | 2 | 4 | Site Manager | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| **P X** | **C =** | **R** |  | | | **P X** | **C =** | **R** |  | |
| **Section 2 – Mobilisation / Site Establishment / Traffic Control** | | | | | | | | | | | | | |
| **Site induction / Pre-start, Site Establishment (Loading/unloading vehicles, planning & preparation, Use of Portable Power Tools); Set up, establishment, maintenance and disestablishment of Traffic Control** | | | | | | | | | | | | | |
|  | Unsuitable TCP, pedestrians & vehicle movement through works area | | 5 | 4 | 20 | | * Implementation of suitable TCP, ROLs, adherence to TfNSW & Council Standards and Specifications, appropriate PPE and licenced and qualified traffic controllers where applicable | | 2 | 4 | 8 | Traffic Controller – UHSC | |
|  | Personnel unfamiliar with WHS requirements or site-specific hazards | | 3 | 2 | **6** | | * Complete Induction * All workers to attend Pre- start daily * All SWMS to be approved, understood and signed | | 1 | 2 | **2** | Site Manager / All Workers | |
|  | Interaction with Live Traffic | | 4 | 5 | **20** | | * This is not expected to be a high risk on this project as the road will be closed * All workers to wear appropriate PPE as required by task * No worker to be nearer than 1.2m to traffic travelling faster than 60km/hr | | 2 | 5 | **10** | Site Manager / All Workers | |
|  | Vehicle Movement | | 3 | 5 | **15** | | * Refer to Vehicle Movement Item under General Section * Site induction * Site VMP to be complied with | | 1 | 5 | **5** | Site Manager / All Workers | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 3 – Clearing & Grubbing** | | | | | | | | | | | | | |
|  | Airborne Projectiles | | 4 | 3 | **12** | | * Ensure guards are fitted to slashers, mowers and brush cutters * Use nylon cord on brush cutters rather than steel blades * wear appropriate PPE as required | | 1 | 2 | **2** | Site Manager / All Workers | |
|  | Trips & falls | | 4 | 3 | **12** | | * Inspect area to be slashed prior to slashing, for trip hazards, stumps, rocks undulations, etc | | 1 | 3 | **3** | Site Manager / All Workers | |
|  | Strike by object | | 3 | 5 | **15** | | * Delineate an exclusion zone * Use spotter * Experienced & competent personnel to undertake tree felling * Undertake a ‘Toolbox Talk’ Plan before felling each major branch or tree * All workers to wear appropriate PPE as required by task | | 2 | 3 | **6** | Site Manager / All Workers | |
|  | Injury to limb | | 2 | 4 | **8** | | * Ensure guards are fitted to chainsaws, brush cutters, etc * Appropriate training of personnel in use of chainsaw * All workers to wear appropriate PPE as required by task | | 1 | 3 | **3** | Site Manager / All Workers | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 4 – Survey Set Out** | | | | | | | | | | | | | |
| **Plot survey and set out survey for the new bridge to be constructed. Undertake Works as Executed survey upon practical completion of the works** | | | | | | | | | | | | | |
|  | Injury from Thick Bush / Scrub | | 3 | 2 | **6** | | * Maintain visual contact between survey party members * Refer to Fauna (Bites from Snakes, Spiders, etc.) under General section * Refer to Slips, trips & falls item under General Section | | 2 | 1 | **2** | Survey Party Leader / Site Manager | |
|  | Tip / Fall / Sprain from Rough Terrain | | 5 | 3 | **15** | | * Maintain visual contact between survey party members * Refer to Slips, trips & falls item under General Section | | 2 | 1 | **2** | Survey Party Leader / Site Manager | |
|  | Trip over Survey pegs / stakes | | 5 | 1 | **5** | | * Use painted survey pegs & stakes * Use bright coloured flagging tape tied to stakes | | 1 | 2 | **2** | Survey Party Leader / Site Manager | |
|  | Over strain | | 4 | 3 | **12** | | * Personnel trained in technique of hammering in pegs & stakes * Stand-up & stretch regularly * Job rotation * Warm-up exercises | | 1 | 2 | **2** | Survey Party Leader / Site Manager | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 5 – Excavation Works** | | | | | | | | | | | | | |
|  | Excavation works – falls, collapse | | 3 | 5 | **15** | | * Unless adequate shoring is in place, do not enter any excavation deeper than 1.2m or any excavation of shallower depth if excavation is assessed to be potentially unstable or groundwater is present * Be particularly careful of excavation instability following rainfall or where vibrations occur / may occur * If excavations are on sloping ground, remember that the “effective” depth of the excavation is greater on the uphill side. If possible, excavate in the “upslope-downslope” direction * Deep excavations shall be shored & battered in accordance with SafeWork requirements * Install fall protection where required in relation to the pre-determined depth of water and work site conditions and size of machinery being used. * Do not stand close to the edge of an excavation. * Do not stand between excavated spoil and edge of excavation. * Don’t allow excavated spoil to be placed close to the edge of excavation. The distance from the edge to toe of stockpile should not be less than half the intended full depth of excavation and preferably greater. * For excavations on sloping ground, place excavated spoil on the downhill side if clear space is available. * In the event that a fall occurs, emergency services should be contacted when spinal injury is suspected | | 1 | 5 | **5** | Site Manager / All Workers | |
|  | Risk of Hitting Existing Underground Service / Electrocution | | 3 | 5 | **15** | | * Check for underground services – Dial Before You Dig (DBYD) 1100 and note the service location, type, depth and any restrictions that apply; * Liaise / Obtain any appropriate approvals from the Service providers / asset holder * Locate services in vicinity of works by pot holing, service locator, etc. * No mechanical digging within 500mm of a known service (or as stated by the asset owner) * Hand excavate/ NDD if exact location of services is unknown. * Spotters to be alert and notify operator of any unexpected finds or services * Use spotter while using excavator to look for utility protection markers * No tooth buckets to be used around known services * Excavation permit for ground disturbance * Refer to page 31-33 of SafeWork Work near Underground Assets guide [here](https://www.safework.nsw.gov.au/__data/assets/pdf_file/0009/54378/SW08773-Work-near-underground-assets-guide.pdf) (Scan QR code)   Qr code  Description automatically generated | | 1 | 5 | **5** | Site Manager / Plant Operator / All Workers | |
|  | Unexpected Asbestos Finds | | 2 | 4 | 8 | | * Asbestos finds are not anticipated on this site. However, if we encounter unexpected asbestos finds, stop work. We will notify the Site Supervisor who will escalate as per their Procedure. We will receive instruction back from the client as to how to proceed. * The works area will be delineated, and appropriate signage erected to create an exclusion zone. | | 1 | 4 | 4 | Site Manager / All Workers | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 6 – Removal of Existing Bridge** | | | | | | | | | | | | | |
|  | Unexpected structure collapse | | 4 | 5 | **20** | | * Plan for a logical dismantling process, communicate plan to all personnel involved with the bridge removal * Monitor during removal process and adjust the plan if necessary | | **2** | **5** | **10** | Site Manager | |
|  | Lifting Equipment Failure | | 2 | 5 | **10** | | * All lifting points and devices (nylon slings, chains, shackles, hooks, etc). shall be clearly marked with SWL * Ensure test & tag is in date and check for wear and tear, ensuring all are in good condition, not exceeding statuary wear regulations prior to every use * Do not stand beneath any lifted load | | **1** | **5** | **5** | Plant Operator / All Workers | |
|  | Slipping of Lifting Chain/Sling | | 4 | 4 | **16** | | * Choke chain/sling back through one hook/eye * Ensure choke is as tight as possible, by hitting the chain/sling with a round steel bar as the load is slowly lifted * Place a bar through the post, above the lifting point, where there are holes provided in the post web or flange | | **2** | **4** | **8** | Site Manager / All Workers | |
|  | Struck by lifted object or swinging arm/hook of crane/plant | | 4 | 5 | **20** | | * Refer to Personnel struck by machine / within swing zone item under General Section | | 2 | 5 | **10** | Site Manager / All Workers | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 7 – Installation of Inquik bridge units / Pre-stressed Concrete Bridge Beams** | | | | | | | | | | | | | |
|  | Unplanned lifting resulting in crane /plant overturn | | 4 | 5 | **20** | | * Undertake a Lift Study & create plan before lifting * All operators shall be appropriately licensed and ticketed and shall display their competency * Assess and estimate the load of any item to be lifted, prior to lifting * All lifting equipment (i.e. Cranes, excavators, skid steer loaders) to be clearly marked with SWL and contain a manual / lift study plan outlining detailed lifting tables * Check working platform prior to work commencing | | 1 | 5 | **5** | Crane operator / Site Manager | |
|  | Personnel unaware of lift methodology | | 3 | 4 | **12** | | * All site personnel are inducted into the lift study plan, methodology & SWMS. | | 2 | 4 | **8** | Site Manager | |
|  | Incorrect crane /plant setup | | 4 | 5 | **20** | | * Crane operator to setup crane as per the Operation Manual / lift study plan | | 1 | 5 | **5** | Crane operator / Site Manager | |
|  | Components swing/sway during craneage and hit other objects | | 4 | 3 | **12** | | * Attach tag line to all objects before lifting * Establish & communicate exclusion zones * All workers to wear appropriate PPE * Do not place limbs between objects, when guiding into position use metal tools or equivalent to avoid pinch points | | 2 | 3 | **6** | Site Manager | |
|  | Lifting Equipment Failure | | 2 | 5 | **10** | | * All lifting points and devices (nylon slings, chains, shackles, hooks, etc). shall be clearly marked with SWL * Ensure test & tag is in date and check for wear and tear, ensuring all are in good condition, not exceeding statuary wear regulations prior to every use * Do not stand beneath any lifted load | | **1** | **5** | **5** | Plant Operator / All Workers | |
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|  | Struck by lifted object or swinging arm/hook of crane/plant | | 4 | 5 | **20** | | * Refer to Personnel struck by machine / within swing zone item under General Section | | 2 | 5 | **10** | Site Manager / All Workers | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 8 – Installation of Formwork** | | | | | | | | | | | | | |
|  | Formwork not installed in accordance with design | | 4 | 4 | **16** | | * Formwork to comply with AS3610 Concrete Formwork Specifications * Approved design drawings to be onsite during formwork construction. * Formwork shall consist of LVL timbers, plywood, steel shutters | | 1 | 4 | **4** | Site Manager / All Workers | |
|  | Lifting of Formwork / Shutters | | 4 | 4 | **16** | | * Exclusion zone to be in place where needed * Only ticketed personnel to undertake lifting operations * Tag-line attached to lifted object * Inspect lifting sling / chain * Lifting points to be used as per manufacturers guidelines * Refer to Personnel struck by machine / within swing zone item under General Section | | 2 | 2 | **4** | Site Manager / All Workers | |
|  | Pinch & Crush Points | | 3 | 4 | **12** | | * Position materials using a 2-person (or more) lift or mechanical where required * Fingers to keep away from pinch / crush points by using flat of hand to push. * Jimmy bar to be used where possible * All workers to wear appropriate PPE as required by task | | 2 | 1 | **2** | Site Manager / All Workers | |
|  | Failure of Forms | | 4 | 3 | **12** | | * All formwork for structural concrete needs certification prior to installs and post install from engineer | | 2 | 1 | **2** | Site Manager / All Workers | |
|  | Protruding Nails | | 4 | 3 | **12** | | * De-nail as you go * Maintain good housekeeping | | 2 | 2 | **4** | Site Manager / All Workers | |
|  | Blowing out of loose material before closing up shutters using Petrol Blower | | 3 | 4 | **12** | | * All Personnel must keep clear of the area in which the debris is being blown out. * Wear appropriate PPE (hearing protection if in the vicinity) * Establish & communicate exclusion zone | | 2 | 1 | **2** | Site Manager / All Workers | |
|  | Spraying of Formol – Uncontrolled chemical release | | 4 | 2 | **8** | | * Airline connections to be secured with safety pins. * Spraying should not be done with workers downwind * Nozzle to be kept as close to the ground as possible * Wear appropriate PPE * Formol - SDS to be close to hand / on site along with first aid kit. First Aid to be applied as specified in SDS. | | 2 | 1 | **2** | Site Manager / All Workers | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 9 – Steel fixing** | | | | | | | | | | | | | |
| **Steel Fixing, Carry in Steel from Set-Down Area** | | | | | | | | | | | | | |
|  | Protruding Bars & Starter Bars | | 4 | 3 | **12** | | * Where possible, do not work directly above/adjacent to exposed rebar where persons could be impaled. * Correctly sized rebar-caps to be fitted to exposed reo bar ends. Check regularly for deterioration/ damage and ensure they are still in place and correctly fitted | | 1 | 2 | **2** | Site Manager / All Workers | |
|  | Sharp - edges and ends on steel / reinforcement | | 3 | 1 | **3** | | * All workers to wear appropriate PPE (gloves) as required by task when handling steel work * Where possible and it will not affect any finished coating or surface, paint the ends and edges of steel work with bright coloured paint. * Use caps to cover sharp ends | | 2 | 1 | **2** | Site Manager / All Workers | |
|  | Manual Handling of bar (heavy lifts, long bars) | | 4 | 2 | **8** | | * Refer to Manual handling item in General Section * Use 2 people to carry & manoeuvre long bars * Ensure the work area is free from slip, trip hazards | | 2 | 2 | **4** | Site Manager / All Workers | |
|  | Repetitive Strain Injury (RSI) during steel fixing | | 4 | 2 | **8** | | * Warm up exercises * Job rotation * Stand-up & stretch regularly | | 1 | 2 | **2** | Site Manager / All Workers | |
| **Hot Works including grinding, cutting, welding incl. Oxy Acetylene.**  **Hot Work Permit must be completed for all hot work, prior to works commencing** | | | | | | | | | | | | | |
|  | Fire | | 4 | 4 | **16** | | * Ensure a current hot works permit is in place * Remove flammable materials from work area. Wet down any timber surfaces. Keep Water based fire extinguisher nearby | | 1 | 4 | **4** | Site Manager | |
|  | Welding of Reinforcement | | 4 | 4 | **16** | | * Wear appropriate PPE * No welding shall be carried out close to moving plant & equipment * Welding screens to be erected if required * Establish and communicate an exclusion zone | | 1 | 2 | **2** | Site Manager / All workers | |
|  | Cutting reo with grinder | | 4 | 4 | **16** | | * Wear appropriate PPE * Cut in an exclusion zone – away from other Workers * Grinders of 125mm dia or less to be used. * Grinder must have safety guard. * Grinder must have Deadman switch * Must observe the approved operation hours. All noisy activities to be assessed by onsite environmental team. * Work areas to be cleared of combustible materials prior to works taking place. * Tagged and in date fire extinguisher is to be available during these works * Sparks are to be aimed away from work and combustible areas * Secure material against movement whilst being cut. | | 2 | 2 | **4** | Site Manager / All workers | |

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| **Section 10 – Pouring & Finishing of Concrete** | | | | | | | | | | | | | |
|  | Manual Handling - Vibration & Finishing of Concrete | | 3 | 3 | **9** | | * Competent personnel to use plant and tools * All workers to wear appropriate PPE * Team-lifts * Job rotation * Regular rest periods | | 1 | 1 | **1** | Site Manager | |
|  | Concrete Pumping | | 3 | 3 | **9** | | * Inspect before setting up * Ensure correct set-up and stabilisers are on firm ground, pump is only operated by competent operator * Establish exclusion zones | | 2 | 1 | **2** | Site Manager | |
|  | Concrete Deliveries | | 3 | 3 | **9** | | * Only controller / spotter to direct truck * Concrete to be released in a controlled manner * Workers to stay clear from crush points when truck is reversing * Vehicles to have reverse quacker & beacon * Drivers to remain in the cab if they are not wearing the correct PPE. * Positive communication - Do not approach plant unless stopped * Refer to Vehicle Movement item under General Section | | 2 | 1 | **2** | Site Manager | |
|  | Contact of concrete with skin and eyes / Concrete Splashes & Burns to Eyes and Body | | 4 | 3 | **12** | | * All workers to wear appropriate PPE * Wash all concrete from skin immediately with water * SDS shall be available onsite. * Follow first aid procedures as directed | | 2 | 2 | **4** | Site Manager | |
|  | Clean Up and concrete wash out | | 4 | 3 | **12** | | * Concrete trucks / equipment / Pump is to wash out in pre-designated wash out area * All workers to wear appropriate PPE as required by task | | 2 | 2 | **4** | Site Manager | |

| **Probability:** | | | **Safety Consequence:** | | | | | | **Environmental Consequences:** | | | | |
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| **Section 10 – Demobilisation / Disestablishment** | | | | | | | | | | | | | |
| Disestablishment Works | | | | | | | | | | | | | |
|  | Risk of Slips, trips & falls (e.g. uneven ground, falls from vehicle) | | 3 | 4 | **12** | | * Refer to Slips, Trips & Falls from General Section | | 1 | 4 | **4** | Site Manager | |
| Vehicles exiting site | | | | | | | | | | | | | |
|  | Damage to personal / plant and environment | | 3 | 5 | **15** | | * Follow VMP * Positive comms | | 1 | 5 | **5** | Site Manager / All Personnel | |
|  | Vehicle/Truck Movements | | 4 | 5 | **20** | | * Reversing alarms * Follow VMP * Appropriate drivers licences * Use of a guide to assist driver | | 1 | 5 | **5** | Site Manager | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Risk Assessment Reckoner** | | **Probability (P)** – How Likely is it to happen) | | | | | **Risk Rating (R)** |
| ++ Very Likely | + Likely | Possible | - Unlikely | - Very unlikely |
| **Consequence (C)** - How bad is it likely to be? | | Could happen at any time | Could happen at some time | Could happen | Could happen, but rarely | Could happen, but probably never will / practically impossible |
| **5** | **4** | **3** | **2** | **1** |
| * Kill or cause permanent disability * Cause major damage to property * Have significant impact on the environment | **5** | **25** | **20** | **15** | **10** | 5 | **13-25**  **UNACCEPTABLE** |
| * Long term illness or serious injury * Significant damage to property * Breach the site boundary and pollute environment | **4** | **20** | **16** | **12** | **8** | 4 |
| **7-12**  **Acceptable with** **strict control measures or short duration** |
| * Medical attention and several days off work * Minor damage to property * Be contained within site boundary, minor pollution | **3** | **15** | **12** | **9** | 5 | 3 |
| * Has been injured but not to extent of medical attention * Return to work with restricted duties * Pollution to environment insignificant | **2** | **10** | **8** | 6 | 4 | 2 |
| **1-6**  **ACCEPTABLE** |
| * First Aid needed – not likely to cause lost time * Negligible damage to property * Pollution to environment insignificant | **1** | 5 | 4 | 3 | 2 | 1 |

| We, the undersigned, confirm that we were consulted in the development of this Safe Work Method Statement nominated above and have been explained its contents. We also confirm that we are qualified to carry out the works identified above, the copies of required qualifications have been provided to GC Civil to undertake this activity and are current. We also clearly understand that the controls in this SWMS must be applied as documented; otherwise work is to cease immediately. | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| These SWMS are separated into 11 sections, please sign on to the sections applicable to the work you are completing. These are: | | | | | | | | | | | | | | | | | |
| **Section 1 –** General High-Risk Works  **Section 2 –** Mobilisation / Site Establishment  **Section 3 –** Clearing & Grubbing  **Section 4 –** Survey Set Out  **Section 5 –** Excavation Works  **Section 6 –** Removal of Existing Bridge | | | | | | | | | | | | **Section 7 –**Installation of Inquik bridge units / Pre-stressed Concrete Bridge Beams  **Section 8** **–** Installation of Formwork  **Section 9** **–** Steel fixing  **Section 10 –** Pouring & Finishing of Concrete  **Section 11 –** Demobilisation / Disestablishment | | | | | |
| **NAME** | **QUALIFICATION REQUIRED** | **SWMS SECTION**  **(Please tick the appropriate section)** | | | | | | | | | | | | **SIGNATURE** | **DATE** | **TIME** | **EMPLOYER** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | | **11** |
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Any revision or modification to this SMWS is to be completed in the SWMS Review & Change Sheet, and signed off by those mentioned in the table above