

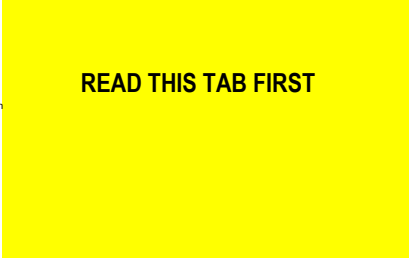
Project Risk Assessment - Instructions

The Project Risk Assessment shall be used in accordance with the requirements outlined in the Risk Management procedure on Compass.

TAB 2 Hazard Identification

Purpose: To list Subcontractors and Activities relevant to the project in order to determine potential high risk hazards.

- Step 1:** List trade packages including subcontractor name once trade package recommendation gets finalised. Trade packages to be set as "Scheduled / Active on Site". This list is to be reviewed when triggered by Planning Documents within the Onsite Register. Hindmarsh direct employees / labour hire shall be the first trade package "Principal Contractor"
- Step 2:** For each Subcontractor/Activity, select the Potential Hazards that may apply and place a tick in the appropriate column.
- Step 3:** Where Potential Hazards for a specific Subcontractor/Activity are not listed (ie, non standard high risk construction works), these shall be added as a new Activity on Tab 3 Safety and Quality Risk once the required workshop has been completed and controls agreed.
- Step 4:** Once the trade package is complete on site, move status to Works Completed



TAB 3 Safety and Quality Risk

Purpose: To allocate appropriate risk control measures to high risk hazards to lower the risk of harm as low as reasonably practicable and assess the residual risk.

- Step 1:** For each Activity with a Potential Hazard identified in Tab 2, determine if Potential Hazards apply and select Yes or No. Further action required when Yes selected only.
- Step 2:** Where a Potential Hazard is present, determine the Consequence and Likelihood. These selections determine the Risk Score.
- Step 3:** The Risk Score determines the HCA Signoff and Monitoring requirements.

The Actions to Control Potential Hazards have been determined based on risk assessment in accordance with High Risk Construction Work Procedures on Compass.

Consequence and Likelihood Tables

Consequence	Likelihood
1 Severe Multiple fatalities	A Almost Certain Is expected in most circumstances
2 Major Fatality, permanent disability	B Very Likely Will probably occur in most circumstances
3 Moderate Injury or illness resulting in lost time or medical treatment	C Possible Could happen occasionally
4 Minor Injury or illness without lost time or medical treatment	D Unlikely May occur sometime
5 Lower Significance First aid	E Rare May only occur in exceptional circumstances

Risk Score Calculator

	A	B	C	D	E
1	VH-1	H-2	H-3	HM-4	HM-5
2	H-6	H-7	HM-8	HM-9	HM-10
3	H-11	M-12	M-13	L-14	L-15
4	M-16	M-17	L-18	L-19	L-20
5	M-21	L-22	L-23	L-24	L-25

Risk Appetite

Description	Risk Score	Controls
SEVERE	VH-1	Construction Manager and SQE Manager to decide if task can proceed. SQE Manager to conduct preplanning workshop to reduce risk prior to commencement.
HIGH	H-2	SQE Manager and Project Manager to co-approve SWMS Project Manager to conduct SWMS Engagement
	H-3	
	H-6	
	H-7	
HIGH MODERATE	H-11	Detailed review of control measures by Site Supervisor prior to SWMS approval to ensure potential haze reduced as far as reasonably practicable.
	HM-4	
	HM-5	
	HM-8	
MODERATE	HM-9	Identified control measures must be capable of controlling hazards that cannot be reduced further in accordance with Hierarchy of Control.
	HM-10	
	M-12	
	M-13	
LOW	M-16	No further controls required. Monitor to ensure risk does not escalate.
	M-17	
	M-21	
	L-14	
	L-15	
	L-18	
	L-19	
	L-20	
L-22		
L-23		
L-24		
L-25		

Hierarchy of Controls

- Elimination** Remove the hazard out of the workplace. I.e. designing the problem out. This is the best option, if it can be done.
- Substitution** Use something less hazardous. For example water based chemicals rather than solvent based ones.
- Isolation** Use barriers to shield or isolate the hazard. For example guards on machines, enclosures for noisy machinery.
- Engineering Controls** Design and install equipment to counteract the hazard. For example installing an exhaust ventilation system to extract dangerous fumes or dust.
- Administrative Controls** Arrange work to reduce the time people are around the hazard. Reduce risk by providing procedures, SWMS, training, or other administrative actions.

Most Effective Controls



TAB 4 Environmental Risk

Purpose: To allocate appropriate environmental impact guides and other risk control measures to lower the environmental risk as low as reasonably practicable.

Step 1: For each Aspect with a potential Impact identified, determine if potential Impact applies and select Yes or No. Further action required when Yes selected only.

Step 2: Where a potential Impact is present, determine the Consequence and Likelihood as per Tab 3. These selections determine the Risk Score.

Step 3: The Risk Score determines the HCA Signoff and Monitoring requirements.

The Actions to Control Potential Impact have been determined based on Hindmarsh Environmental Impact Guides on Compass

Step 4: If the site is a Sensitive Site (eg. there is a known endangered species that may be impacted by the site, it is neighbouring a national park etc), identify the Aspect (as per previous examples) and determine potential impacts

The Actions to Control Potential Impact shall be determined based on Consultant / Regulatory advice

TAB 5 Site Specific Client & Other

Purpose: 1 - To identify, control and consult potential hazards that are site specific and may impact clients, the public or other entities. Where potential hazards exist, liaison with these entities shall be managed and records of activities maintained.

2 - To identify, control and consult client or other entity site specific requirements e.g., contractual, council regulation, neighbourhood / community group agreements

Consequence and Likelihood Tables, Risk Score and Risk Appetite above applies.

INSTRUCTIONS:

Where HCA is required to provide its services within or near a client's or other entity's workplace, HCA shall complete the following:

- Discuss with the client / other entity specifics relating to their operations, this may include but is not limited to:
 - o operational / workplace rules, requirements, sensitivities or expectations
 - o potential hazards created by HCA presence
 - o safety of persons (HCA, client, other entity, public)
 - o procedures, processes which may be impacted by HCA presence
 - o proposed hazard identification, risk assessment and control processes before, during and after the construction process
 - o traffic (vehicle and pedestrian) management
 - o emergency preparedness and response processes / procedures
 - o security
 - o other items as HCA, client / other entities feel appropriate
- Discuss and agree on hazards, risk assessment and proposed control measures
- Document discussions and outcomes via a HCA Project Risk Assessment document , worksheet "Client / Other Entity)



PROJECT NAME: Hammondcare	Developed and assessed by: Jack Isemonger Reviewed and approved by (State Manager - Construction):	Project Risk Assessment
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ACTIVITY	POTENTIAL HAZARD	Is this a Potential Hazard? Y / N	ACTION TO CONTROL POTENTIAL HAZARD	Risk Assessment			HCA Sign Off	Risk Appetite Requirement
				Consequence	Likelihood	Risk Score		
ASBESTOS		YES						
Asbestos Procedure	Exposure to known Asbestos Containing Material (ASM)	YES	Asbestos & Health Hazards Management Workshop, Asbestos Register where ACM has been identified or is likely to be present;	Moderate	Very Likely	M-12	COMPASS	COMPASS
	Unknown presence / location of ACM	YES	Asbestos Management Plan by Occupational Hygienist that identifies type, presence and location of ACM.	Moderate	Very Likely	M-12	COMPASS	COMPASS
	Uncontrolled removal of ACM	YES	Asbestos Removal Control Plan; Regulatory Notifications; Clearance Certificates; SWMS by the licensed Asbestos Removalist per legislative requirements: Class A - licenses the contractor to carry out work with friable and non-friable asbestos; whereas Class B - licenses the contractor to carry out work with non-friable asbestos only. Records of worker qualifications/training/evidence of medicals through Site Inductions; SWMS.	Major	Unlikely	HM-9	COMPASS	COMPASS
	Exposure to disturbed ACM	YES	Asbestos Management Plan; Clearance Certificates; SWMS for air monitoring activities by an Occupational Hygienist that is independent of the licensed asbestos contractor removing the ACM.	Major	Possible	HM-8	COMPASS	COMPASS
	Worker exposure to ACM from removal activities	YES	Asbestos Management Plan; Asbestos Removal Control Plan; SWMS; Health Surveillance, Health Surveillance, Exposure Monitoring and Hazardous Substances Procedure for health surveillance and exposure monitoring activities for workers and work areas potentially affected by ACM.	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Unexpected finds of ACM	YES	EMMP Standing Orders (see Unexpected Finds of Asbestos or known Health Hazards); Asbestos Management Plan; Asbestos Removal Control Plan; Clearance Certificates, SWMS.	Moderate	Very Likely	M-12	COMPASS	COMPASS
CONFINED SPACE		YES						
Confined Space Procedure	Uncontrolled Entry into Confined Space	YES	Confined Space Permit; SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
	Unauthorised Entry into Confined Space	YES	Confined Space Permit - Persons entering the confined space and standby persons, shall hold Nationally Recognised Training in Confined Space; Site Induction; SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Entry into a contaminated or air quality compromised confined space	YES	Confined Space Permit; Equipment Calibration Register; SWMS.	Major	Possible	HM-8	COMPASS	COMPASS
	Incident within a confined space	YES	EMMP Standing Orders (see Confined Space Rescue); SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
Contaminated / Flammable Atmosphere		YES						
Contaminated / Flammable Atmosphere Procedure	Uncontrolled work in areas of contaminated / flammable atmospheres	YES	Hazardous Substances Risk Assessment; Chemical Substances Register; SWMS; Silica Dust processing activities identified in contaminated / flammable atmosphere Action Steps.	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Identify High Risk CCS processing	YES	Subcontractors performing the below work may complete the Health Hazards Management Workshop if controls are deemed inadequate after SWMS Review. Tiling, Stone Work, Concrete Patching, Excavation into Sandstone,	Major	Unlikely	HM-9	COMPASS	COMPASS

Worker exposure to contaminated atmospheres	YES	Crystalline Silica processing activities: 1 - Use power tools to cut or modify engineered stone 2 - Excavate into sandstone, clay or granite 3 - Drill, cut or chase into concrete and brickwork 4 - Cut bricks, pavers or tiles 5 - Dry angle grinds on concrete or masonry 6 - Jackhammer, scabble or chisel concrete 7 - Clean up the dust and debris created by the above activities Silica Controls Measures include SWMS, Training, Internal Audit, Weekly SQE Inspection, Health and Exposure Monitoring, Core Cut and Chase Permit.	Major	Possible	HM-8	COMPASS	COMPASS	
Inappropriate storage of flammable substances	YES	Ventilated storage and bunding as per Safety Data Sheets. Minimum distances between active ingredients to be considered when storing flammable substances. Placard and manifest quantities as per state / territory legislative requirements	Severe	Unlikely	HM-4	COMPASS	COMPASS	
Uncontrolled hot works	YES	Hot Works Permit; SWMS, Prestart	Severe	Unlikely	HM-4	COMPASS	COMPASS	
Unidentified exposure levels	YES	Hazardous Substances Risk Assessment; Chemical Substances Register; SWMS; Silica Dust Generating activities greater than the workplace exposure standard (0.05mg/m ³ - 8 hour time weighted average) to cease. Where unknown generation quantities exist, occupational hygienist to conduct air monitoring or real time silica monitor to be deployed. EIG005 - Atmospheric Emissions for welding fumes	Severe	Unlikely	HM-4	COMPASS	COMPASS	
Unmaintained fire protection systems and equipment	YES	EMMP Appendix E - HCA Emergency Equipment Needs Assessment & Fire Fighting Capability Assessment; First Aid and Emergency Equipment Register;	Severe	Unlikely	HM-4	COMPASS	COMPASS	
Incident due to contaminated / flammable atmosphere	YES	EMMP Standing Orders (see Fire Emergency); SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS	
CRANE LOADING BAYS (MODULAR SYSTEMS)		YES						
Crane Loading Bays (Modular Systems) Procedure	Uncontrolled erection of modular crane loading bay	YES	Modular Crane Loading Platform (loading bay) Workshop; SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
	Unauthorised design	YES	Modular Crane Loading Platform (loading bay) Workshop; Modular design drawing certified by Structural Engineer	Severe	Rare	HM-5	COMPASS	COMPASS
	Falling objects / Fall from heights	YES	Modular Crane Loading Platform (loading bay) Workshop; Supporting structure assessed and signed off by HCA Structural Consultant (Structural Engineer qualification); TGN - Material Handling	Major	Unlikely	HM-9	COMPASS	COMPASS
	Collapse of Temporary structure	YES	Modular Crane Loading Platform (loading bay) Workshop; Supporting structure assessed and signed off by HCA Structural Consultant (Structural Engineer qualification)	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Unauthorised erection of modular crane loading bay	YES	Modular Crane Loading Platform (loading bay) Workshop; Intermediate Scaffolder, or Basic Rigger or above to install, SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Temporary structural support / back propping failure	YES	Modular Crane Loading Platform (loading bay) Workshop; Engineers signoff for working load limit; Handover by Intermediate Scaffolder / Basic Rigger and above verifying propping in place as per engineer design.	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Incident involving/ during use of modular crane loading bay	YES	EMMP Standing Orders (See Structure Collapse, Crush Injuries from Plant or Materials), SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
DEMOLITION		YES						
Demolition Procedure	Unauthorised / unsafe demolition / removal of building structures and materials	YES	Demolition Workshop with Subcontractor to develop the Demolition Work Plan to address the building structure, including adjacent structures, and identified materials; SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Impact to adjacent building structures and materials	YES	Demolition Workshop with Subcontractor to develop the Demolition Work Plan to address adjacent structures and materials; SWMS	Major	Unlikely	HM-9	COMPASS	COMPASS
	Exposure to hazardous chemicals and materials	YES	Demolition Workshop, Asbestos & Health Hazards Management Workshop - Hazmat survey (including hazardous chemicals and materials) been conducted documented by Occupational Hygienist on behalf of HCA and provided to the demolition contractor; SWMS	Major	Possible	HM-8	COMPASS	COMPASS

	Contact with live services	YES	Demolition Workshop; Before You Dig; Services De-energisation Energisation Permit; SWMS (confirm HCA, Client or contractor permits)	Major	Unlikely	HM-9	COMPASS	COMPASS
	Falls from height	YES	Demolition Workshop - (Working at Heights fixed covers and guards on openings and penetrations, and safe access and egress is maintained etc); SWMS	Major	Unlikely	HM-9	COMPASS	COMPASS
	Falling Objects	YES	Demolition Workshop - (Working at Heights exclusion zones, scaffolding requirements; protective structures etc); SWMS ; TGN - Exclusion Zones	Major	Possible	HM-8	COMPASS	COMPASS
	Incident during demolition	YES	EMMP Standing Orders (See Crush Injuries from Plant or Materials, Structure Collapse, Excavation Rescue, Plant Collision/Rollover, Electrical or Services Damage), SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
ELECTRICAL		YES						
Electrical Procedure	Contact with energised electrical services	YES	Electrical Workshop, Services De-energisation Energisation Permit issued to Licensed Electrical Contractor when safe systems of work have been developed; Core Cut Chase Permit issued prior to any core holing, concrete cutting or chasing works; SWMS. Restricted Entry Permit	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Unprotected electrical systems including generators and construction wiring	YES	Electrical Workshop , RCD protection for portable generators, construction wiring and electrical systems tested by a Licensed Electrical Contractor at maximum 3 monthly intervals and results recorded; Electrical Register; SWMS Construction wiring shall be adequately secured, protected and clearly marked accordingly with "Construction Wiring" sticker and not be tied, bundled or grouped with permanent wiring; SWMS; Weekly SQE Inspection	Major	Possible	HM-8	COMPASS	COMPASS
	Contact with faulty electrical equipment / RCD's	YES	Records of testing and tagging of electrical equipment at maximum 3 month intervals by a Licensed Electrical Contractor for Subcontractors and Hindmarsh electrical equipment; Electrical Register (Subcontractors or Hindmarsh); Regulatory Compliance Certificates; SWMS.	Major	Unlikely	HM-9	COMPASS	COMPASS
	Non Compliant temporary power	YES	Electrical Workshop, Regulatory Compliance Certificates for installation of temporary works. 6 monthly inspections of all temporary electrical installations (temporary wiring, amenities, site feeds etc); SWMS	Major	Possible	HM-8	COMPASS	COMPASS
	Unauthorised installation of electrical services	YES	Licensed, Qualified and trained in safe systems of work involving the installation, modification, testing and certification of electrical installations; Site Induction; SWMS	Major	Unlikely	HM-9	COMPASS	COMPASS
	Contact with live electrical services	YES	Electrical Power On Workshop to establish protocols for commissioning of electrical services. Restricted Entry Permit completed for works near live electrical services. Site Induction; SWMS, Restricted Entry Permit TGN - Electrical Switch Room Commissioning; TGN - Temporary Electrical Installations, TGN - Exclusion Zones	Major	Possible	HM-8	COMPASS	COMPASS
	Incident involving energised electrical services / equipment	YES	EMMP Standing Orders (see Electric Shock, Electrical or Services Damage), SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
EXCAVATION		YES						
Excavation Procedure	Impact to adjacent building structures, materials and foundations	YES	Excavation Workshop; Civil and Piling Workshop; Excavation Permit; SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Contact with underground or above ground services	YES	Excavation Permit; Services De Energisation Permit; Services Interference Request; Before You Dig; SWMS; TGN - Spotters; TGN - Verification of Mobile Plant Operator Competency	Major	Unlikely	HM-9	COMPASS	COMPASS
	Ground collapse.	YES	Excavation Workshop; Civil and Piling Workshop; Excavation Permit; Excavation Inspections; SWMS;	Severe	Unlikely	HM-4	COMPASS	COMPASS

	Ground collapse where shoring systems or other documented methods are utilised,	YES	Excavation Permit; Excavation Inspections; SWMS; Excavation Workshop; Civil and Piling Workshop	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Uncontrolled excavations	YES	Excavation Workshop; Civil and Piling Workshop; Excavation Permit; Excavation Inspections; SWMS;	Major	Unlikely	HM-9	COMPASS	COMPASS
	Potential falls into the excavation	YES	Excavation Permit; Excavation Inspections; SWMS, TGN Exclusion Zones, TGN Access and Egress	Major	Unlikely	HM-9	COMPASS	COMPASS
	Mobile plant impacting on the excavation	YES	Excavation Permit; Excavation Inspections; SWMS.	Severe	Rare	HM-5	COMPASS	COMPASS
	Incident in and around excavations	YES	EMMP Standing Orders (See Excavation Rescue, Structure Collapse, Excavation Rescue, Plant Collision/Rollover, Electrical or Services Damage, Uncontrolled Escape of Gas), SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
FORMWORK		YES						
Formwork Procedure	Uncontrolled erection of formwork	YES	Formwork Workshop; SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
	Unauthorised design	YES	Formwork Workshop; Formwork Designer signoff (designer etc)	Severe	Rare	HM-5	COMPASS	COMPASS
	Collapse of Temporary structure	YES	Formwork Workshop; SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Falling from height / dropped objects	YES	Formwork Workshop; Formwork Checklist; SWMS; Harness Permit; TGN - Exclusion Zones	Major	Possible	HM-8	COMPASS	COMPASS
	Unauthorised erection of formwork	YES	Formwork Workshop, Formwork Checklist; SWMS;	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Temporary structural support / back propping failure	YES	Formwork Workshop; Formwork Checklist: Engineers signoff for stripping / back propping	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Incident involving/ during formwork activities	YES	EMMP Standing Orders (See Structure Collapse, Crush Injuries from Plant or Materials, Electric Shock), SWMS	Major	Unlikely	HM-9	COMPASS	COMPASS
HEALTH SURVEILLANCE, EXPOSURE MONITORING, HAZ SUBS		YES						
Health Surveillance, Exposure Monitoring, Hazardous Substance Procedure	Exposure to known health hazards	YES	Project Commencement Checklist to identify if known hazards exist on site. Engage an Occupational Hygienist to develop exposure monitoring standards and control plan; Asbestos & Health Hazards Management Workshop, SWMS for tasks where health hazards identified/likely to be present.	Major	Unlikely	HM-9	COMPASS	COMPASS
	Uncontrolled / absent health surveillance/exposure monitoring	YES	Asbestos & Health Hazards Management Workshop, SWMS; Occupational Hygienist to develop exposure monitoring standards and controls; Health surveillance by Medical Practitioner.	Major	Rare	HM-10	COMPASS	COMPASS
	Exposure to health hazards due to failure of inspection, measuring and test equipment	YES	SWMS, to identify use of Equipment; Maintain Records of Calibration (Hindmarsh Equipment Calibration Register OR registers supplied by third parties)	Major	Possible	HM-8	COMPASS	COMPASS
	Exposure to hazardous chemicals	YES	Hazardous Substance Risk Assessment shall manage the use, handling, generating and storing of hazardous chemicals. SWMS, Chemical Substance Register, Safety Data Sheet (SDS). EMMP Standing Orders (See Unexpected Finds of Asbestos or known Health Hazards)	Severe	Unlikely	HM-4	COMPASS	COMPASS
MOBILE PLANT		YES						
Mobile Plant Procedure	Failure to identify hazards associated with plant use, loading and unloading and falling objects	YES	Plant Risk Assessment by either a Designer, Manufacturer, Supplier, Owner or Competent Person for all plant prior to use on site. Plant Risk Assessment Acknowledgement by the operator to identify outcomes of the plant risk assessment. Where a suitable plant risk assessment has not been supplied, the Principle Contractor Plant Risk Assessment shall be completed in consultation with the plant operator/supplier. SWMS; SWMS Review; Tower Boom Pump Workshop; Tower Crane Workshop; TGN - Access and Egress, TGN - Exclusion Zones, TGN - Material Handling	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Contact with underground or above ground service	YES	Mobile Plant Pre-use Checklist; Mobile Crane/ Boom Pump Set Up; Excavation Permit; SWMS, Tower Crane Workshop; Tower Boom Pump Workshop	Major	Rare	HM-10	COMPASS	COMPASS

Unsafe operation of mobile crane	YES	Mobile Plant Pre-use Checklist; Mobile Crane/ Boom Pump Set Up; SWMS, Tower Crane Workshop	Severe	Rare	HM-5	COMPASS	COMPASS
Failure of lifting and rigging equipment	YES	Mobile Plant Pre-use Checklist; SWMS, Critical Lift Permit, Lifting Equipment Register, Tower Crane Workshop; TGN - Material Handling	Severe	Rare	HM-5	COMPASS	COMPASS
Uncontrolled movement of Plant / Vehicles	YES	SWMS - Identify spotter; Onsite Movement Plan - Exclusion zones, traffic routes, plant/vehicle/worker interactions. Toolbox and Pre Start Meetings shall be used to communicate activities. Weekly SQE Inspection. TGN - Exclusion Zones	Major	Unlikely	HM-9	COMPASS	COMPASS
Unauthorised use of mobile plant	YES	Mobile Plant Pre-use Checklist; Tower Crane Pre Install Checklist evidence of plant operator licencing, training or competence. Technical Guidance Note - Verification of Mobile Plant Operator Competency for competency requirements; Technical Guidance Note - High Risk Work Licensing; SWMS Where plant is to be stored on site it must be stored in a manner that is safe and where improper / unauthorised use can not occur.	Major	Unlikely	HM-9	COMPASS	COMPASS
Failure of unmaintained mobile plant (structural, mechanical failures)	YES	Mobile Plant Pre-use Checklist; Plant Register, Weekly SQE Inspection; SWMS The Mobile Plant Pre-Use Checklist and Tower Crane Commissioning Checklist shall be used to manage a program of plant inspections and maintenance specific to the needs of each type of plant. Inspections shall be in accordance with regulatory inspections and registrations; manufacturers requirements, including pre-start inspections and commissioning prior to commencing on site.	Major	Rare	HM-10	COMPASS	COMPASS
Interaction with other PCBU's either above, below or next to the work zone		Interaction with air space (NOTAM)e.g. airport / air services Australia; Air rights to be considered; Consultation with neighbours impacted by slew zone. Notice of Disruptions; Mobile Crane/ Boom Pump Set Up; Tower Crane Workshop; Tower Boom Pump Workshop	Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
Incident involving mobile plant (including contact or collision with other plant, structures or people)	YES	Mobile Plant Pre-use Checklist To address safe systems of work. Includes Original Equipment Manufacturers (OEM) manuals, Plant Risk Assessments, site specific requirements and the need for ROP'S and FOPs. Plant Register, EMMP, (See Crush Injuries From Plant or Materials, Electrical or Services Damage, Plant Collision / Roll Over, Structural Collapse, Excavation Rescue), SWMS,	Major	Possible	HM-8	COMPASS	COMPASS
SCAFFOLD		YES					
Scaffold Procedure							
Uncontrolled erection of Scaffold	YES	Scaffold > 4m Scaffold Workshop to develop safe systems of work for the erection, use and stripping of scaffolding >4m. SWMS Scaffold < 4m Scaffold Installation Logbook when assembling, dismantling and re-assembling fixed or mobile scaffolds where there is a risk of fall of < 4m the shall be completed. However if a Licensed Scaffolders is conducting the works - inspection certificate and scaff tag is acceptable. SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
Falling objects / Fall from heights	YES	Scaffold > 4m Scaffold Workshop to address design requirements and develop safe systems of work for the erection, use and stripping of scaffolding >4m Scaffold drawing to be supplied and certified by a scaffold designer where a person or object can fall > 4m SWMS Scaffold < 4m Manufacturers design to be supplied for fixed or mobile scaffold where a person or object can fall <4m . SWMS, TGN - Exclusion Zones, TGN - Access and Egress, Harness Permit	Major	Possible	HM-8	COMPASS	COMPASS
Unauthorised design and erection of Scaffold	YES	Scaffold > 4m Scaffold Workshop to address design requirements and develop safe systems of work for the erection, use and stripping of scaffolding >4m Scaffold drawing to be supplied and certified by a scaffold designer where a person or object can fall > 4m SWMS TGN - High Risk Work Licences Scaffold < 4m Manufacturers design to be supplied for fixed or mobile scaffold where a person or object can fall <4m . SWMS	Severe	Rare	HM-5	COMPASS	COMPASS

	Collapse / Failure of Scaffold	YES	Scaffold > 4m Scaffold Workshop to develop safe systems of work for the erection and inspection of scaffolding > 4m, SMWS; Scaffold Inspection Checklist Scaffold < 4m Scaffold Installation Logbook when assembling, dismantling and re-assembling fixed or mobile scaffolds where there is a risk of fall of <4m. However if a Licensed Scaffolder is conducting the works - inspection certificate and scaff tag is acceptable. SWMS; Scaffold Inspection Checklist	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Unauthorised / incorrect erection of Scaffold	YES	Scaffold > 4m Scaffold Workshop to address inspector and installer requirements for the erection, use and stripping of scaffolding >4m Scaffold < 4m Scaffold Installation Logbook for fixed or mobile scaffold where a person or object can fall < 4m shall be completed. However if a Licensed Scaffolder is conducting the works - the inspection certificate and scaff tag for the scaffold is acceptable. SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Incident involving scaffold work / scaffold failure	YES	EMMP Standing Orders (See Crush Injuries from Plant or Materials, Severe Weather, Structure Collapse, Electric Shock), SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
STRUCTURAL STEEL		YES						
Structural Steel	Unauthorised design and erection of Structural Steel	YES	Structural Steel Workshop with the relevant Structural Steel contractor prior to activities commencing on site. SWMS	Major	Rare	HM-10	COMPASS	COMPASS
	Uncontrolled erection of Structural Steel	YES	Structural Steel Workshop with the relevant Structural Steel contractor prior to activities commencing on site. SWMS; Critical Lift Permit	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Element and bracing failure due to impact	YES	Risks associated with Structural Steel activities are identified, assessed and controlled in accordance with the Compass Action Steps A Structural Steel Workshop with the relevant Structural Steel contractor prior to activities commencing on site. SWMS, Onsite Movement Plans	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Element and bracing failure	YES	Structural Steel Workshop with the relevant Structural Steel contractor prior to activities commencing on site. SWMS Installation - The Contractor shall provide Hindmarsh with documented verification that Structural Steel Elements have been installed in accordance with the requirements of the Design Plan. Ongoing Inspection - The Contractor shall provide Hindmarsh evidence of inspection of temporary bracings that have been conducted in accordance with the frequencies and requirements of the Design Plan.	Severe	Rare	HM-5	COMPASS	COMPASS
	Incident involving Structural Steel	YES	EMMP Standing Orders (See Structure Collapse, Crush Injuries from Plant or Materials, Electric Shock, Severe Weather), SWMS	Severe	Unlikely	HM-4	COMPASS	COMPASS
TILT-UP / PRECAST CONCRETE		YES						
Tilt-up/Precast Concrete Procedure	Unauthorised design and erection of Tilt up / pre cast concrete.	YES	Tilt-up / Precast Workshop with the relevant Tilt-up/Precast contractor prior to activities commencing on site. SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
	Uncontrolled erection of Tilt up / pre cast concrete	YES	Tilt-up / Precast Workshop with the relevant Tilt-up/Precast contractor prior to activities commencing on site. SWMS; Critical Lift Permit	Severe	Rare	HM-5	COMPASS	COMPASS
	Falling objects / Fall from heights	YES	Tilt-up / Precast Workshop with the relevant Tilt-up/Precast contractor prior to activities commencing on site. SWMS; TGN - Exclusion Zones; Harness Permit	Major	Unlikely	HM-9	COMPASS	COMPASS

	Panel and bracing failure due to impact	YES	Risks associated with Tilt-up/ Precast Concrete activities are identified, assessed and controlled in accordance with the Compass Action Steps A Tilt-up / Precast Workshop shall be conducted with the relevant Tilt-up/Precast contractor prior to activities commencing on site. SWMS, Onsite Movement Plans; TGN - Exclusion Zones	Severe	Rare	HM-5	COMPASS	COMPASS
	Panel and bracing failure	YES	Tilt-up / Precast Workshop with the relevant Tilt-up/Precast contractor prior to activities commencing on site. SWMS Installation - The Contractor shall provide Hindmarsh with documented verification that Tilt-up/Precast panels have been installed in accordance with the requirements of the Design Plan. Ongoing Inspection - The Contractor shall provide Hindmarsh evidence of inspection of temporary bracings that have been conducted in accordance with the frequencies and requirements of the Design Plan. The Tilt-up/Precast Inspection Checklist may be used by the Contractor in the absence of any other safe system of work to verify the completion of the above inspections	Severe	Unlikely	HM-4	COMPASS	COMPASS
	Incident involving Tilt up / precast	YES	EMMP Standing Orders (See Structure Collapse, Crush Injuries from Plant or Materials, Electric Shock, Severe Weather), SWMS	Severe	Rare	HM-5	COMPASS	COMPASS
TRAFFIC		YES						
Traffic Management Procedure	Unplanned / Unauthorised Traffic Control.	YES	Traffic Management Plan (Hindmarsh Project Traffic Management Plan in the absence of Subcontractor Plan), Regulatory approvals.	Major	Possible	HM-8	COMPASS	COMPASS
	Uncontrolled Traffic Management	YES	Traffic Management Plan, Traffic Management Inspections (Hindmarsh Traffic Management Inspection in the absence of Subcontractor inspections),	Major	Unlikely	HM-9	COMPASS	COMPASS
	Unauthorised Traffic Controllers	YES	Site Induction, SWMS , Regulatory recognised training - e.g. Traffic Control Using Stop/Slow Bat; Introduction to Traffic Control of Roadwork's; Traffic Control Worksite Planning; Design and Audit Traffic Control Plans.	Major	Possible	HM-8	COMPASS	COMPASS
	Failure or absence of Traffic Management Controls	YES	Traffic Management Plan, Traffic Management Inspections (Hindmarsh Traffic Management Inspection in the absence of Subcontractor inspections),	Major	Possible	HM-8	COMPASS	COMPASS
	Incident involving Traffic	YES	Traffic Management Plan, SWMS, On-Site Movement Plan EMMP Standing Orders (See Plant Collision / Roll over).	Major	Unlikely	HM-9	COMPASS	COMPASS
WORKING AT HEIGHTS		YES						
Working at Heights Procedure	People falling from heights	YES	A Harness Permit and SWMS shall only be permitted for the use of Fall Restraint/Fall arrest equipment if the following controls are not reasonably practicable: 1 - the task can be performed on the ground such as pre fabrication or use of extension poles; 2 - the use of scaffold can be utilised to complete the designated task; 3 - An EWP can be used and safely positioned to complete the task; and 4 - Another work positioning system (E.g. Man box, Swinging Stage) can be used and safely positioned to complete the task. SWMS, Harness Permit, HRC Workshop, Core Cut Chase Permit issued prior to any core holing, concrete cutting or chasing works; TGN - Access and Egress, Roofing Workshop	Major	Rare	HM-10	COMPASS	COMPASS
	Falling objects	YES	Safe systems of work to be documented per the Hierarchy of Controls as follows to prevent falling objects: 1 - Temporary protective structure e.g. Hoarding Nets/Catch Deck 2 - Exclusion zones. Technical Guidance Note - Exclusion Zones 3 - PPE e.g. Lanyards, tool buckets SWMS, Harness Permit, Core Cut Chase Permit issued prior to any core holing, concrete cutting or chasing works;	Major	Possible	HM-8	COMPASS	COMPASS
	Failure of fall prevention systems / structures	YES	SWMS, Harness Permit, Installation and inspection schedules and records.	Major	Rare	HM-10	COMPASS	COMPASS
	Incorrect use of fall restraint/arrest equipment	YES	SWMS, Harness Permit , Training, installation, maintenance and inspection schedules and records.	Major	Rare	HM-10	COMPASS	COMPASS

Working from A-Frame / rung Ladders	YES	Where Scaffolds, EWPS, Platform Ladders or Trestles cannot be used, safe systems of work shall be provided to address the hazards and controls relating to working from a ladder(e.g. SWMS, Risk Assessment, standard operating procedure)	Moderate	Possible	M-13	COMPASS	COMPASS
Unsafe access and egress when working at heights	YES	Where access and egress cannot be managed by Demolition, Excavation, Formwork or Scaffold procedures the following safe systems of work shall apply to provide safe access and egress from heights: - Minimum of 2 x scaffold stair access will be provided to all working deck levels while scaffold is present on site - Once available, internal stairs shall be utilised. - A personnel / materials hoist will be installed once the building reaches level 4 SWMS; TGN - Access and Egress	Major	Rare	HM-10	COMPASS	COMPASS
Incidents due to working at heights	YES	EMMP Standing Orders (See Safety Harness Rescue, Structure Collapse), SWMS	Major	Rare	HM-10	COMPASS	COMPASS
PASSIVE FIRE		YES					
Passive Fire Procedure							
Design not compliant	YES	A 3rd party consultant shall be engaged as per the Peer Review Passive Fire Rating Consultant Agreement . The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available).	Moderate	Unlikely	L-14	COMPASS	COMPASS
Design not compatible	YES	A 3rd party consultant shall be engaged as per the Peer Review Passive Fire Rating Consultant Agreement . The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out.	Moderate	Possible	M-13	COMPASS	COMPASS
Product not compliant	YES	A 3rd party consultant shall be engaged as per the Peer Review Passive Fire Rating Consultant Agreement . The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available).	Moderate	Rare	L-15	COMPASS	COMPASS
Product not compatible	NO	A 3rd party consultant shall be engaged as per the Peer Review Passive Fire Rating Consultant Agreement . The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available).	Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
Non-compliant installation	YES	A 3rd party consultant shall be engaged as per the Peer Review Passive Fire Rating Consultant Agreement . The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out. Hold Points shall be noted. ITPs and ITCs shall be used. These shall be noted in Quality Management Plan	Moderate	Unlikely	L-14	COMPASS	COMPASS
Products not meeting product specification	YES	A 3rd party consultant shall be engaged as per the Peer Review Passive Fire Rating Consultant Agreement . The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out.	Moderate	Unlikely	L-14	COMPASS	COMPASS

Workers not aware of requirements (Legislative & HCA)	YES	The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). The BCA Logic Fire Rating Toolbox Talk shall be presented to all trades that are conducting work HCA site staff shall attend the Fire Rating Awareness for Builders (by J Groom) training course via ELMO. Prototyping to be carried out.	Moderate	Unlikely	L-14	COMPASS	COMPASS
Required documentation not received, or inadequate	YES	The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out. Hold Points shall be noted. ITPs and ITCs shall be used. These shall be noted in Quality Management Plan	Minor	Unlikely	L-19	COMPASS	COMPASS
Design, product and / or material clashes	YES	The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out.	Moderate	Unlikely	L-14	COMPASS	COMPASS
Non identified design changes	YES	The HCA Fire Rating Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available).	Moderate	Possible	M-13	COMPASS	COMPASS
STRUCTURAL ENGINEERING	YES						
Structural Engineering Procedure							
Design not compliant	YES	A 3rd party consultant shall be engaged as per the HCA Peer Consultant Review Scope – Structural Engineering	Moderate	Unlikely	L-14	COMPASS	COMPASS
Structural design assumptions incorrect	YES	A 3rd party consultant shall be engaged as per the HCA Peer Consultant Review Scope – Structural Engineering	Moderate	Rare	L-15	COMPASS	COMPASS
Structural failure	YES	A 3rd party consultant shall be engaged as per the HCA Peer Consultant Review Scope – Structural Engineering	Moderate	Unlikely	L-14	COMPASS	COMPASS
Product not suitable	YES	A 3rd party consultant shall be engaged as per the HCA Peer Consultant Review Scope – Structural Engineering	Moderate	Rare	L-15	COMPASS	COMPASS
WATERPROOFING	YES						
Waterproofing Procedure							
Design not compliant	YES	A 3rd party consultant shall be engaged as per the Peer Review Waterproofing Consultant Agreement / Scope of Work . The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available).	Moderate	Unlikely	L-14	COMPASS	COMPASS
Design not compatible	YES	A 3rd party consultant shall be engaged as per the Peer Review Waterproofing Consultant Agreement / Scope of Work . The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out.	Moderate	Unlikely	L-14	COMPASS	COMPASS
Product not compliant	YES	A 3rd party consultant shall be engaged as per the Peer Review Waterproofing Consultant Agreement / Scope of Work . The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available).	Minor	Unlikely	L-19	COMPASS	COMPASS
Product not compatible	YES	A 3rd party consultant shall be engaged as per the Peer Review Waterproofing Consultant Agreement / Scope of Work . The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out.	Minor	Unlikely	L-19	COMPASS	COMPASS

Non-compliant installation	YES	A 3rd party consultant shall be engaged as per the Peer Review Waterproofing Consultant Agreement / Scope of Work . The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out. Hold Points shall be noted. ITPs and ITCs shall be used. These shall be noted in Quality Management Plan	Moderate	Unlikely	L-14	COMPASS	COMPASS	
Products not meeting product specification	YES	A 3rd party consultant shall be engaged as per the Peer Review Waterproofing Consultant Agreement / Scope of Work . The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out.	Minor	Rare	L-20	COMPASS	COMPASS	
Workers not aware of requirements (Legislative & HCA)	YES	The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). HCA site staff shall attend the Waterproofing Awareness for Builders (by J Groom) training course via ELMO. Prototyping to be carried out.	Moderate	Unlikely	L-14	COMPASS	COMPASS	
Required documentation not received, or inadequate	YES	The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out. Hold Points shall be noted. ITPs and ITCs shall be used. These shall be noted in Quality Management Plan	Minor	Unlikely	L-19	COMPASS	COMPASS	
Design, product and / or material clashes	YES	The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available). Prototyping to be carried out.	Moderate	Unlikely	L-14	COMPASS	COMPASS	
Non identified design changes	YES	The HCA Waterproofing Workshop shall be conducted with the nominated contractor/s, product supplier/s / manufacturer and any external consultants / experts (if available).	Moderate	Unlikely	L-14	COMPASS	COMPASS	
DESIGN		YES						
Design Procedure	Construction buildability hazards not identified during design planning	YES	Review client/designer/ other third-party supplied Design Risk Assessment. If not available, complete the Safety in Design Risk Profile . Transfer outstanding buildability hazards to this Project Risk Assessment.	Moderate	Unlikely	L-14	COMPASS	COMPASS
	Changes in Design	YES	Changes in design are documented on and communicated via the Design Change Authority after being risk assessed.	Moderate	Unlikely	L-14	COMPASS	COMPASS
	Changes to design unknown	YES	New hazards and changes to documented hazard controls shall be communicated via Design Change Authority	Major	Unlikely	HM-9	COMPASS	COMPASS
WORK ENVIRONMENT		YES						
	Trades working close to others and being unaware of identified hazards	YES	SWMS to consider immediate work area and interaction with other trades Pre Start Meetings to communicate project activities.	Major	Unlikely	HM-9	COMPASS	COMPASS
	Dust	YES	SWMS, EIG 005 - Atmospheric Emissions . Professional cleaners to be contracted for the duration of the works. Vacuum cleaning / floor scrubbing machines to be employed, nil dry sweeping. Where possible air scrubbers and mechanical ventilation to be used. Where excessive dust is generated Occupational Hygienist to be engaged to provide methodologies, monitoring and provision of individual health surveillance. Monitor fume and air contaminants where identified. Pre Start Meetings to communicate project activities. Core Cut Chase Permit issued prior to any core holing, concrete cutting or chasing works;	Moderate	Possible	M-13	COMPASS	COMPASS

Noise	YES	SWMS, EIG 004 - Noise Emissions. Isolation of noisy activities, including exclusion zones, designated cutting rooms and zones. Where activities are identified that create excessive noise Occupational Hygienist to be engaged to provide methodologies, monitoring and provision of individual health surveillance Pre Start Meetings to communicate project activities. Core Cut Chase Permit issued prior to any core holing, concrete cutting or chasing works;	Moderate	Possible	M-13	COMPASS	COMPASS
Vibration	YES	SWMS, EIG006 - Vibration. Isolate plant and equipment that are causing vibration. Where activities are identified that create excessive vibration Occupational Hygienist to be engaged to provide methodologies, monitoring and provision of individual health surveillance Pre Start Meetings to communicate project activities.	Moderate	Possible	M-13	COMPASS	COMPASS
Identify project specific hazards here		Identify project specific controls here to reduce the potential hazard as low as reasonably practicable	Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
SITE SECURITY		YES					
Injury to public due to unauthorised entry	YES	HCA to erect 1800mm high fencing around the site perimeter to prevent unauthorised entry; Statutory safety signage to be erected around the project and at all entry gates to site. Standard signage. Do Not Enter Authorised Personnel Only, All Visitors to report to Site Office, Hindmarsh standard Signage to be erected. 24hr emergency contact details should be posted at site entry points as per COP for construction.	Major	Rare	HM-10	COMPASS	COMPASS
Entry not secure	YES	HCA to ensure that the site entry gates within the project are locked when ever the site is unattended. Site gates to be shut at all times unless manned to prevent unauthorized entry on to site.	Major	Rare	HM-10	COMPASS	COMPASS
Absence of Entry and Exit Lighting	YES	As per AS 3012 General minimum lighting 40 lux for walk ways and luminaires protected from mechanical damage, installed where required emergency lighting sufficient to 20 lux. TGN - Access and Egress	Moderate	Unlikely	L-14	COMPASS	COMPASS
Emergency Lighting	YES	AS/NZS3012 Electrical installations on construction sites and demolition sites, clause 2.7.3, sets out that a minimum light level of 20 lx be provided for a minimum of one hour following the loss of normal lighting on sites where natural lighting is insufficient.	Major	Unlikely	HM-9	COMPASS	COMPASS
Identify project specific hazards here	NO	Identify project specific controls here to reduce the potential hazard as low as reasonably practicable	Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
MANUAL HANDLING		YES					
Injury	YES	Manual Handling Training / SWMS / Standard Operating Procedures	Moderate	Possible	M-13	COMPASS	COMPASS
Mechanical Lifting and Handling	YES	Hazardous manual tasks to be identified by PCBU and Risk Assessment provided.	Moderate	Unlikely	L-14	COMPASS	COMPASS
Identify project specific hazards here	NO	Identify project specific controls here to reduce the potential hazard as low as reasonably practicable	Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
HUMAN FACTORS		YES					
Languages other than English	YES	SWMS Review, SWMS Engagement, Internal Audit, Induction presented with translator, Use of AI to translate documents.	Major	Possible	HM-8	COMPASS	COMPASS
Young Workers	YES	Apprentice ratio's maintained onsite, Internal Audit	Moderate	Unlikely	L-14	COMPASS	COMPASS
PSYCHOSOCIAL RISK ASSESSMENT		YES					
Job Demands	YES	EMMP, Employee Assistance Program, Fatigue Management Policy, Hazard Reporting, Incident Reporting, Roles and Responsibilities Matrix, Training Matrix, Senior Management Visit, Internal Audit, Incident Reporting, Performance and Career Conversations	Major	Unlikely	HM-9	COMPASS	COMPASS
Low Job Control	YES	Roles and Responsibilities Matrix, Training Matrix, Senior Management Visit, Performance and Career Conversations	Moderate	Possible	M-13	COMPASS	COMPASS
Poor Support	YES	Accidental Counsellor Training, De Escalation Training, Senior Management Visit, Performance and Career Conversations	Moderate	Possible	M-13	COMPASS	COMPASS



PROJECT NAME: Hammondcare	Developed and assessed by: Jack Isemonger	Project Risk Assessment
	Reviewed and approved by (State Manager - Construction):	

ASPECT	POTENTIAL IMPACT	Is this a Potential Impact? Y / N	ACTION TO CONTROL POTENTIAL IMPACT	Risk Assessment				HCA Sign Off	Risk Appetite Requirement	
				Consequence	Likelihood	Calcs - Columns to be hidden	Risk Score			
SEDIMENT AND EROSION										
Sediment and erosion environmental impact guides										
	Soil erosion	YES	EIG001 - Soil Erosion, Sediment, Surface Run Off EIG015 - Removal of Spoil from Site	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Sediment	YES	EIG001 - Soil Erosion, Sediment, Surface Run Off	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Surface runoff	YES	EIG001 - Soil Erosion, Sediment, Surface Run Off	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
FLORA AND FAUNA										
Flora and fauna environmental impact guides										
	Disturbance of flora and fauna	YES	EIG002 - Disturbance Flora Fauna EIG020 - Protection of Existing Trees	Moderate	Unlikely	3	4	L-14	COMPASS	COMPASS
	Disturbance of aquatic flora and fauna	NO	EIG003 - Disturbance Aqua Flora and Fauna	Severe	Almost Certain	1	1	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
	Spread of infectious plant, disease and/or weeds	NO	EIG010 - Presence of Infectious Plant, Disease and/or Weeds	Severe	Almost Certain	1	1	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
EMISSIONS										
Emissions environmental impact guides										
	Noise emissions	YES	EIG004 - Noise Emissions	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Atmospheric emissions	YES	EIG005 - Atmospheric Emissions	Moderate	Unlikely	3	4	L-14	COMPASS	COMPASS
	Vibration	YES	EIG006 - Vibration	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
STORAGE AND HANDLING OF MATERIALS AND SUBSTANCES										
Storage and handling of materials and substances environmental impact guides										
	Leaks / spillage of materials or substances	YES	EIG007 - Storage, Maintenance, Refuel	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Leaks / spillage of hazardous materials or dangerous substances	YES	EIG008 - Storage, Handling Hazardous / Dangerous Substances / Materials	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Contact with PCBs or contamination of surrounding soils and / or waterways by PCBs	YES	EIG018 - PCB Management	Moderate	Unlikely	3	4	L-14	COMPASS	COMPASS
COMMUNITY										
Community environmental impact guides										
	Negative social impact	YES	EIG012 - Disturbance Cultural Heritage EIG009 - Social Impact	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Disturbance of cultural or heritage items	YES	EIG012 - Disturbance Cultural Heritage	Moderate	Unlikely	3	4	L-14	COMPASS	COMPASS
	Negative visual impact	YES	EIG014 - Visual Amenity	Minor	Unlikely	4	4	L-19	COMPASS	COMPASS
LAND CONTAMINATION										
Land contamination environmental impact guides										
	Soil contamination in the vicinity of the site	YES	EIG013 - Land Contamination	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Contamination due to acid sulphate soils	YES	EIG016 - Acid Sulphate Soils	Moderate	Unlikely	3	4	L-14	COMPASS	COMPASS
	Contamination of soils / water due to ballast	NO	EIG017 - Ballast	Severe	Almost Certain	1	1	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
RESOURCE MANAGEMENT										
Resource management environmental impact guides										
	Energy consumption	YES	EIG013 - Land Contamination EIG019 - Energy and Water Consumption	Minor	Possible	4	3	L-18	COMPASS	COMPASS
	Water consumption	YES	EIG016 - Acid Sulphate Soils EIG019 - Energy and Water Consumption	Minor	Possible	4	3	L-18	COMPASS	COMPASS
	Solid waste treatment	YES	EIG016 - Acid Sulphate Soils EIG011 - Solid and Liquid Waste Recycling	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
	Liquid waste treatment	NO	EIG017 - Ballast	Severe	Almost Certain	1	1	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
SENSITIVE SITE										
SQE Manager to assist in creating appropriate environmental impact guides										
	Major contamination of land or waterways from identified petrochemical contamination onsite	YES	Dewatering management plan to be followed, with monitoring of disposal and filtration to have regular sampling/assessment conducted to ensure disposal quality metrics are being achieved.	Major	Possible	2	3	HM-8	COMPASS	COMPASS
	Identify project specific impacts here		Identify project specific controls here to reduce the potential hazard as low as reasonably practicable	Severe	Almost Certain	1	1	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
	Identify project specific impacts here		Identify project specific controls here to reduce the potential hazard as low as reasonably practicable	Severe	Almost Certain	1	1	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
	Identify project specific impacts here		Identify project specific controls here to reduce the potential hazard as low as reasonably practicable	Severe	Almost Certain	1	1	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
POTENTIAL EMERGENCIES										
This includes project specific potential emergencies that are outside the standard HRCW Activity controls above.										
Site specific 1	Major waterway pollution	YES	Use of first flock and chemical membrane filtration plant to treat both ground and surface collected waters in event of heavy rainfalls. Tank farm established at lowest point of site	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
Site specific 2	Slippage or failure of excavated rock	YES	Combined use of shoring piles and rock bolting to 75% of sheer wall. Excavation inspections to be carried out inline with Hindmarsh excavation permit requirements at lift heights nominated by civil or geotechnical consultant.	Major	Possible	2	3	HM-8	COMPASS	COMPASS
Site Specific 3	Use of man box to rescue incapacitated workers.	YES	Readiness of rescue/recovery boxes to be maintained and ensured as accessible. Emergency drills to test crew and crane readiness. Cage to be tagged and maintained in good condition under test tagging inspection registers.	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
Site Specific 4	Torrential Rains	YES	Continued torrential rainfall onsite poses a hazard to workers inside excavation. In such events, a partial or whole site evacuation will be undertaken to removed workers from inside the bulk works pit via the emergency notification system. Recovery of the area via dewatering will be done at the earliest practicable time to do so to removed the drowning hazard.	Major	Possible	2	3	HM-8	COMPASS	COMPASS
Site Specific 5	Damage to Ausgrid substation asset	YES	Works in and near the existing Ausgrid substation will be monitored and controlled, with no loads to be lifted over the substation and clear prohibition signage. Rockbreaking activities in the area will be monitored for vibration impact limits, with guidelines set under Ausgrid document NS193	Severe	Unlikely	1	4	HM-4	COMPASS	COMPASS

Site Specific 6	Failure of dust suppression systems causing extreme releases to atmosphere of dust and/or silica containing materials	YES	As soon as safe to do so, works to cease in both the direct and indirect area. Workers to be evacuated to an area that is not affected until Hindmarsh clears for works to return.	Moderate	Possible	3	3	M-13	COMPASS	COMPASS
Site Specific 6	Cyclotoxic waste onsite posing contamination hazard to workers	YES	Hazmat removal of identified RAP zones by licensed contractor only.	Moderate	Possible	3	3	M-13	COMPASS	COMPASS



PROJECT NAME: Hammondcare	Developed and assessed by: Jack Isemonger	Project Risk Assessment
	Reviewed and approved by (State Manager - Construction):	

HAZARD	CLIENT	NEIGHBOURS (BUSINESS / RESIDENTS)	MEMBERS OF PUBLIC	WORKERS	AGREED ACTION TO CONTROL POTENTIAL HAZARD Nominated controls below MUST be developed by applying Hierarchy of Control: 1. Elimination, 2. Substitution, 3.Isolation, 4. Engineer, 5. Administrative, 6. PPE	Risk Assessment			HCA Sign Off	Risk Appetite Requirement
						Consequence	Likelihood	Risk Score		
CRITICAL NOTE - Do not duplicate hazards as identified on Tab 3 (eg public protection, site security). These hazards are standard and controls implemented inherently protect client / other entities. Record here additional hazard as identified via consultation which are not already addressed by Tab 3.										
SITE SPECIFIC HAZARDS THAT MAY IMPACT CLIENTS, THE PUBLIC OR OTHER ENTITIES										

Restricted access to building undercrofts or other spaces not designed for human habitation				YES	Use of safework NSW Confined space identification checklist prior to entry. If classified as confined nil entry will be permitted unless further risk assessments completed.	Moderate	Unlikely	L-14	COMPASS	COMPASS
Hazardous chemical contamination	YES	YES		YES	JK geotechnical has identified a registered fuel tank within the property. This area is around 25m away from the nearest expected excavation. JK advice to be sought prior to works commencing to confirm they are satisfied with the level of risk being low enough to proceed. For distribution of information, all contractors are issued the RAP reports which include the technical information & findings from earlier investigations. A brief summary of these findings will also need to be included in the excavation workshops held with contractors.	Moderate	Unlikely	L-14	COMPASS	COMPASS
Working near pressurised gas services	YES	YES	YES	YES	Dial Before You Dig (DBYD) service plans to be obtained and reviewed prior to excavation. Hindmarsh HRCW workshop to be held with supervisor and excavator operators for trades. Hindmarsh Excavation permit to be lodged prior to works. Additional hazards relating to the high pressure gas main at the north of the property (River Road) has been highlighted due to the natural local geology which has lead asset owners to running services shallow.	Major	Possible	HM-8	COMPASS	COMPASS
Working near Ausgrid network substation		YES	YES	YES	Restrictions will be enforced on the project to prevent mobile plant slewing or lifting over the substation located within the property.	Major	Possible	HM-8	COMPASS	COMPASS
Health exposure due to contamination from onsite incinerator, incinerator well ash or mortuary cyclotoxic waste area					Detailed investigations conducted prior to demolition for sampling and annalysis of these areas, with materials to be removed by specialist contractors. No other works will be permitted in these areas unless full clearance report has been issued.	Moderate	Possible	M-13	COMPASS	COMPASS
Workers exposed to hazardous materials identified in RAP investigations			YES	YES	Demolition methodology in conjunction with RAP and advice from hygenist	Moderate	Possible	M-13	COMPASS	COMPASS
Collision of cranes			YES	YES	Intergrated anti-collision devices fitted to all 3 tower cranes creating physical lockout zones between crane/crane and crane jib excursions of site over neighbouring properties. Tower Crane planning workshop to be held once contractor appointed.	Severe	Unlikely	HM-4	COMPASS	COMPASS
Spare				YES		Lower Significance	Unlikely	L-24	COMPASS	COMPASS
Spare						Lower Significance	Unlikely	L-24	COMPASS	COMPASS

Spare						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
Spare						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
Spare						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
Spare						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
Spare						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
SITE SPECIFIC HAZARDS AND RULES (FROM CONTRACTUAL, LOCAL COUNCIL, COMMUNITY GROUP AGREEMENT REQUIREMENTS ETC)										
Breach of Community Noise Reprive	YES	YES	YES	YES	Reprieve hours for noise works 0900-1200, 1400-1700 MON-FRI & 0900-1200 SAT	Moderate	Possible	M-13	COMPASS	COMPASS
Breach of Restricted work hours	YES	YES	YES	YES	Hours of work for site are 0730-1730 MON-FRI and 0800-1300 SAT. Works are permitted outside of these hours under the SSDA condition D5 for limited activities such as large mobile plant float required by police or public authority, establishment of cranes. Any and all works must be approved by the Planning secretary with minimum 7 working days notice.	Moderate	Possible	M-13	COMPASS	COMPASS
EXAMPLE Security Clearance						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
EXAMPLE Restricted work hours						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
EXAMPLE Parking restrictions						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP
						Severe	Almost Certain	VH-1	SQE MANAGER	PREPLANNING WORKSHOP

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Yes
No

Subcontractor
Hindmarsh

SQE SQE Plan HOC
Proje SWMS Er Y
Com Compass N

SQE Planning Workshop
QA / QC Audit
Compass

IF FORMULA DATA

Electrical			Excavation			Formwork			Health Surveillance, Exposure Monitoring, Hazardous Substance			Mobile Plant			Scaffold			Structural Steel		
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	1	2	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1	1	0	1
1	0	1	1	1	2	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	1	2	1	1	2	1	0	1	1	1	2	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	1	2	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1
1	1	2	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1	1	1	2
1	1	2	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
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1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
1	1	2	1	0	1	1	0	1	1	0	1	1	1	2	1	0	1	1	0	1
1	1	2	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1	1	0	1
1	1	2	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	1	2	1	1	2	1	0	1	1	0	1
1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
1	1	2	1	0	1	1	0	1	1	1	2	1	1	2	1	1	2	1	0	1

