

# PBS Project Risk Register



Workplace Location:		Belconnen and Woden Skatepark											
Issue Number:		1											
Activity Description		Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements	
								6. Elimination		0		%Controls ≥ Engineering 87%	
								5. Substitution		5		%Controls < Engineering 13%	
								4. Isolation		73			
								3. Engineering		244		βCheck formulas in L2-L7 if you add rows to ensure range is correct	
								2. Administration		48			
<b>All Trades / Common Activity</b>			hit by mobile plant (Concrete truck/Pump & Crane)	C Possible	4 Large	12	Lineman to have positive communication with pump operator when positioning the line for the filling of AFS Walls. Pump operator to have direct line of site where concrete boom is to be positioned. Doggman to control the load using a tag line. Clear and precise commands (ie two way radios, hand signals or whistle blasts) to be used when communicating with the operator.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>			Manual Handling	C Possible	3 Medium	9	Identified control measures must follow the Hierarchy of Control commencing with elimination of the manual handling task where reasonably practicable; followed by the use of mechanical aids to reduce risks related to manual tasks. Ensure you keep the load close to the chest and bend your knees to pick up the load and lift with your legs with your back straight. bend the knees to lower the load then release the load to final position without over extending the back.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2011, Hazardous manual tasks CoP, Construction work CoP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation CoP.	
<b>All Trades / Common Activity</b>			Falls of persons from Height More than 2m	C Possible	5 Very Large	15	HRSWMS in place for any High Risk Construction works. Correct PPE to be worn when handling materials.VOC for Plant use. Keep work areas clean and clear of any excess materials. The Catch or Capture philosophy must be employed as the primary control to prevent the fall or reduce the distance of the fall. Lanyards/tethers must be used on all tools or equipment. Robust exclusion zones must be on place as a secondary control measure below areas where a risk of fall of materials/tools exists; these exclusion zones must account for potential arc of fall, deflection and bounce. Boom EWP's need to have mesh flooring so the ground is visible below operators feet. Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type). Handrail installed at opening to prevent person from falling. Scaffold to be completed and signed off as ready for use. All loading areas on scaffold to have midrail and top rail installed after load is on scaffold. Mesh infills to be utilised as another option. Persons are to remain inside the EWP and not stand on the mid rail to over stretch to complete a task.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Hazardous manual tasks CoP, Construction work CoP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation CoP.	
<b>All Trades / Common Activity</b>			Falls of persons from Height Less than 2m	C Possible	3 Medium	9	Identified control measures must follow the Hierarchy of Control commencing with elimination of the task where reasonably practicable. Use of platform ladder or Mobile scaffold as a first action. Use of step ladder for less than 15 min duration or in cases where platform ladder is not viable Handrail installed at opening to prevent person from falling. Scaffold to be completed and signed off as ready for use. All loading areas on scaffold to have midrail and top rail installed after load is on scaffold. Mesh infills to be utilised as another option. Persons are to remain inside the EWP and not stand on the mid rail to over stretch to complete a task.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Hazardous manual tasks CoP, Construction work CoP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation CoP.	
<b>All Trades / Common Activity</b>			Cuts and Lacerations	D Unlikely	3 Medium	6	All guards to be fitted to power tools, Leads and tools to be test & tagged by a competent person 3 monthly and any RCD to be test & tagged monthly. Wear the correct PPE for use of power tool and hand tools i.e. Stanley Knives. Use retractable stanley knives.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Hazardous manual tasks CoP, Construction work CoP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation CoP.	
<b>All Trades / Common Activity</b>			Falls of materials	D Unlikely	4 Large	8	HRSWMS in place for any High Risk Construction works. Correct PPE to be worn when handling materials.VOC for Plant use. Keep EWP clean and clear of any excess materials. The Catch or Capture philosophy must be employed as the primary control to prevent the fall or reduce the distance of the fall. Lanyards/tethers must be used on all tools or equipment. Robust exclusion zones must be on place as a secondary control measure below areas where a risk of fall of materials/tools exists; these exclusion zones must account for potential arc of fall, deflection and bounce. Boom EWP's need to have mesh flooring so the ground is visible below operators feet. Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type).	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	



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Activity Description						Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements
<b>All Trades / Common Activity</b>							Falls of Person from EWP.	C Possible	4 Large	12	HRSWMS in place , Plant induction tag to be issued before use. Emergency rescue procedures to be developed and signed into by any workers undertaking a task from an EWP. Correct use of EWP's, Exclusion zones to be in place for any working platform 2m or above High risk licence or VOC required for the use of booms over the 11m capacity. All works undertaken in accordance with the manufacturers instructions. SWL observed. EWP to be used on level ground. When travelling horizontally the bucket/working platform is to be lowered. All workers to be harnessed to EWP as required by manufacturer. Personnel trained and competent including HRWL for MEWP. Remain clear of edge of structure and adhere to exclusion zones where established and no screening protection provided. No standing on top rails or mid-rails to access work areas, access control bump bar to be fitted to all EWP's as per PBS Alert. Harness to be securely anchored to fixture provided inside EWPHandrail installed at opening to prevent person from falling. Persons are to remain inside the EWP and not stand on the mid rail to over stretch to complete a task. .	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>All Trades / Common Activity</b>							fall of Materials & Hand Tools From EWP	C Possible	3 Medium	9	HRSWMS in place for any High Risk Construction works. Correct PPE to be worn when handling materials.VOC for Plant use. Keep EWP clean and clear of any excess materials. The Catch or Capture philosophy must be employed as the primary control to prevent the fall or reduce the distance of the fall. Lanyards/tethers must be used on all tools or equipment. Robust exclusion zones must be on place as a secondary control measure below areas where a risk of fall of materials/tools exists; these exclusion zones must account for potential arc of fall, deflection and bounce. Boom EWP's need to have mesh flooring so the ground is visible below operators feet. Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type).	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>All Trades / Common Activity</b>							People and Plant Separation - Excavators	C Possible	4 Large	12	Spotter to have positive communication with excavator operator during the task. Workers to stay outside the swing zone of the excavator. Exclusion zone around the excavation/ excavator to stop any unauthorised entry by other workers on the site. Hand signals or UHF radios to be used as positive communications. Workers to remain out of blind spots of any plant that may be delivering materials to site and spotter to guide any plant to final delivery position. Dogman to remain visible when guiding the delivery or installation of loads and to use positive comms.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>All Trades / Common Activity</b>							Environmental damage from spills and cleaning tools	C Possible	1 Very Small	3	All trows, tools and equipment to be washed out in a protected and designated wash out area. Concrete pump to blow out in plastic lined bin.Hand tools to be washed out in designated wash out area. All off cuts and construction rubbish to be put into the correct PBS bins only. Ensure that all activities where land is cleared, excavated or disturbed have sediment and erosion control devices implemented and maintained. Provide on-site treatment of any stormwater runoff where required. Determine preventative controls as well as physical controls such as covering of stockpiles or water spraying to eliminate or minimise dust being introduced into the atmosphere. Assess and implement mitigation measures for all noise and vibration related impacts on occupants , visitors, surrounding activities and owners where required to ensure operations do not adversely impact them. Plan and conduct all excavation, movement, treatment, processing or remediation of contaminated soils or groundwater in accordance with the requirements of high risk activities.	3. Engineering	Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .
<b>All Trades / Common Activity</b>							People and Plant Separation - Mobile plant	C Possible	4 Large	12	Wear seat belt if provided. Driver/operator to be able to see travel path and stop if people walk in direct area. Flashing light to be in prominent position so people will be able to see it and reverse beepers to be in working order. Revision mirror to be in working condition	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>All Trades / Common Activity</b>							Sunburn	C Possible	1 Very Small	3	Short sleeve shirts can be worn onsite. PBS to provide sunscreen stations attached to the nurse calls located onsite. Sunscreen to be worn. Broad brims on hard hats. Consider rest breaks & job rotation. Undertake work at cooler times of the day. Provide adequate clothing that protects from the elements.	1. PPE	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Hazardous manual tasks CoP, Construction work CoP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation CoP.

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All Trades / Common Activity			Plant roll over	D Unlikely	4 Large	8	EWP to be operated on stable ground conditions. Competent VOC'd workers to operate EWP under 11m & Only workers with a High Risk Licence to operate EWP's over 11m. Before accessing work areas on the site, operators are to establish a route for safe access and set-up. Considerations of service trenches and penetrations should be taken into account.	2. Administration	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
All Trades / Common Activity			Contact with in-ground services	D Unlikely	4 Large	8	Sucker truck to be used to pot hole every 5m a known services, this will identify the service and the direction that it is going. PBS Excavation permit to be in place before any in-ground works begin. No use of an excavator within 1m of a service unless dispensation has been given by the PBS Regional EHS Manager. HRSWMS to be in place for the task. All inground services are to be located using DBYD, Energise or isolate permit may be necessary depending on the task, HRSWMS needed , identify the risks , hold points, testing procedures and identify Plant needed for reducing the risks etc.	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Excavation work CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .
All Trades / Common Activity			Failure of plant	C Possible	5 Very Large	15	Excavators / Bobcats and the like, must be correctly maintained and be in good condition for use onsite. All repairs must be attended to before the plant can be used onsite also. All lifting gear - Chains and slings must be approved by a competent person. Synthetic slings need to be checked 3 monthly and chains are to be tested yearly, both having a visual inspection before each use. All lifting equipment must be in good condition and regularly serviced as per manufacturers specs(i.e. Spreader bars, chains, slynhetic slings, clutches). Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type) used to not allow any unauthorised entry into exclusion zones.Excavators , must be correctly maintained and be in good condition for use onsite. All repairs must be attended to before the plant can be used onsite also. All lifting gear - Chains and slings must be approved by a competent person. Synthetic slings need to be checked 3 monthly and chains are to be tested yearly, both having a visual inspection before each use.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
All Trades / Common Activity			Failure of lifting gear	C Possible	5 Very Large	15	All lifting equipment must be in good condition and regularly serviced as per manufacturers specs(i.e. Spreader bars, chains, slynhetic slings, clutches). Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type). contractors must not allow any unauthorised entry into exclusion zones.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
All Trades / Common Activity			Fire and Explosion when refuelling plant & equipment	C Possible	3 Medium	9	Hot works permit valid for activity if necessary. Area to be clear of any combustable material. Fire fighting equipment to be in date and in the vacinity of the refuelling activity. Haz goods to be stored correctly onsite and in ventilated areas. All personnel using chemicals to be inducted into the SWMS which are to include any controls as per the SDS for the specific product. All Jerry cans used must be returned to the Haz storage and secured, they are not to be left out onsite. Refuelling to be undertaken in identified locations away from other ignition sources.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .
All Trades / Common Activity			Engulfment and inhalation of hazardous chemicals /toxins in a Confined Space	C Possible	5 Very Large	15	Confined space permit to be aquired from PBS and is only valid for one shift. all work inside a confined space is only to be conducted by personnel who are trained to do so, including atmospheric monitoring, use of safety equipment and rescue procedures. Confined space entry and exist to be secured. Confined space needs to be ventilated to normal atmospheric pressure/quality before anyone can enter the confined space. All measuring equipment must have a current calibration certificate. All services that need to be isolated are to be done prior to any workers entering the space as per the PBS Confined space permit.	4. Isolation	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Confined spaces CoP, Construction work CoP, How to manage work health and safety risks CoP, Managing risks of hazardous chemicals in the workplace CoP, Labelling of workplace hazardous chemicals CoP, Managing the risk of falls at workplace CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide and .



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								3. Engineering	244			
								2. Administration	48			
<b>All Trades / Common Activity</b>			Loss of load by the telehandler / Franna	C Possible	4 Large	12	All lifting equipment must be in good condition and regularly serviced as per manufacturers specs (i.e. Spreader bars, chains, slynthetic slings, clutches). Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type) to not allow any unauthorised entry into exclusion zones. Crane to work lower than 95% capacity. Set up in areas that are approved by the PBS Site Manager. Pre-start to be conducted on Crane before use. Crane to be less than 20yrs old and a 10yr structural inspection completed. When expecting to use crane over 95% capacity a Lift study is to be completed. Do not operate crane in adverse weather conditions which may effect the load or crane. Crane maintenance to be up to date and any repairs to be done prior to lifting. When using excavator as a crane, SWL not be exceeded and All lifting gear to be inspected and approved for use. All loads to be secured when moving around the site via telehandler.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>All Trades / Common Activity</b>			Noise and vibration	C Possible	2 Small	6	When using grinders / tools for an extended period of time, then anti vibration gloves should be worn. Hearing protection should also be worn on top of the site specific PPE requirements. Rotation of workers to be considered for lengthy periods of repetative grinding tasks.	3. Engineering	Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, Hazardous manual tasks CoP, How to manage work health and safety risks CoP, Managing noise and preventing hearing loss at work CoP, Managing the risks of plant in the workplace CoP, Managing the work environment and facilities CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .
<b>All Trades / Common Activity</b>			roll over of Telehandler	C Possible	4 Large	12	Licenced operator to drive machine only. Telehandler to not be driven within the 'Zone of Influence' of any trenching or excavation works onsite. A designated route for the site to be communicated to all operators which is to be located on the site Notice Board. Operator to achieve confirmation that it is ok to set up outriggers in various locations across the project along the intended fence line location. Telehandler should not be used outside of it Safe working limits as will be identified on the machine & in the operators manual. Lock out tag out procedure to be implemented if machine is faulty until all repairs are made.	4. Isolation	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>All Trades / Common Activity</b>			roll over of excavator	D Unlikely	4 Large	8	Excavator is not to be set up inside the "Zone of Influence". ROPS / FOPS to be installed on All plant including but not limited to Grader, Roller, Skid Steer. Do not exceed the SWL of machine. Ensure lifting gear is test and tagged as ready for use by a competent person.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>All Trades / Common Activity</b>			Contact with Hazardous Chemicals or Dangerous Goods	B Likely	2 Small	8	SDS Controls need to be communicated to All workers that are to use and Haz product. The correct PPE is to be worn while completing the task. Chemicals to be correctly labelled and kept in secure storage location on-site.	2. Administration	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .
<b>All Trades / Common Activity</b>			fall of persons in to excavations	D Unlikely	2 Small	4	Flagging installed with signage 2m back from trenching. For Pit excavations over 1.5 - robust fencing to be installed and signage stating "Deep Excavation" and "Authorised persons only". Excavations over 1.5 to be benched, batter or shored. Safe means of access to be provided	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Hazardous manual tasks CoP, Construction work CoP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation CoP.

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Activity Description	Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements	
<b>All Trades / Common Activity</b>		Loss of load by lifting activities	D Unlikely	5 Very Large	10	All lifting equipment must be in good condition and regularly serviced as per manufacturers specs (i.e. Spreader bars, chains, slynthetic slings, clutches). Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type) to not allow any unauthorised entry into exclusion zones. Crane to work lower than 95% capacity. Set up in areas that are approved by the PBS Site Manager. Pre-start to be conducted on Crane before use. Crane to be less than 20yrs old and a 10yr structural inspection completed. When expecting to use crane over 95% capacity a Lift study is to be completed. Do not operate crane in adverse weather conditions which may effect the load or crane. Crane maintenance to be up to date and any repairs to be done prior to lifting. When using excavator as a crane, SWL not be exceeded and All lifting gear to be inspected and approved for use. All loads to be secured when moving around the site via telehandler.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risks of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , . PBSSliding and Lifting Guidelines	
<b>All Trades / Common Activity</b>		contact with live services in walls / ceilings	C Possible	4 Large	12	HRSWMS to be in place for the task. Energise or isolate permit may be necessary depending on the task, Aluminium ladders to be used, correct PPE. HOLD POINT - Contractor needs approval to energise, by the PBS Supervisor. Live temporary electrical cabling must be identified with yellow tag tape every 3m.,All temporary electricity provided to socket (general purpose ) outlets must be protected by a Residual Current Device. Isolate live cables where possible. Any works requiring drilling or cutting into areas , materials or structures that MAY contain live electrical shall be thoroughly investigated prior to works. An electrician is required to sign off prior to drilling /cutting within 2m of any alignment of GPO or electrical fitting, light switch. Every cable end (i.e. awaiting termination) must be folded over itself and taped to prevent eye damage and electric shock(in the event of inadvertent energisation).	4. Isolation	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .	
<b>All Trades / Common Activity</b>		Unexpected finds	D Unlikely	4 Large	8	PBS site specific Unexpected finds protocol to be followed	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, Excavation work CoP, Hazardous manual tasks CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing electrical risks in the workplace CoP, Managing the risks of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP.	
<b>All Trades / Common Activity</b>		Collapse of excavation/trenching	C Possible	4 Large	12	Bench batter or shoring to be installed for any excavations over 1.5m. All machinery not to be located in the 'Zone of Influence' . Any wall that cannot be bench battered or shored is to have a geo-tech certification inspection done before any worker can enter the excavation or trench. Shoring boxes to provide adequate access in/out of the excavation. Adjacent structures, roads and sidewalks must be supported or protected where necessary to prevent collapse. Materials and equipment must be placed at safe distances from the edge of excavations.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>		Failiure of concrete pump	D Unlikely	4 Large	8	Before accessing work areas on the site, operators are to establish a route for safe access and set-up. Considerations of service trenches and penetrations should be taken into account. Xrays are to be conducted on a monthly basis and records given to PBS to ensure that pipe thickness does not deteriorate below the minimum density of 2mm of wall thickness in the concrete piping.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>		entanglement from the cement mixer	C Possible	3 Medium	9	All guards to be fitted to Mixer engine. Leads to be hung in a position so as not be able to entangle in the moovement of the mixer. Mixer to be set up on stable ground. Wear the correct PPE for use of the mixer and don't have any loose clothing on. RCD Protection from power outlet to be installed and tagged monthly.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Hazardous manual tasks CoP, Construction work CoP,Managing electrical risks in the workplace CoP, How to manage work health and safety risks CoP, Work health and safety consultation, coordination and cooperation CoP.	

# PBS Project Risk Register



Workplace Location: Belconnen and Woden Skatepark						Hierarchy of Control					Status	Legal and other requirements
Issue Number: 1						6. Elimination	0	%Controls ≥ Engineering	87%			
						5. Substitution	5	%Controls < Engineering	13%			
						4. Isolation	73					
						3. Engineering	244					
						2. Administration	48					
βCheck formulas in L2-L7 if you add rows to ensure range is correct												
Activity Description	Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements	
<b>All Trades / Common Activity</b>		Failure of scaffold	C Possible	3 Medium	9	Only competent persons holding the appropriate High Risk Licence suitable to the type of work undertaken must construct, modify or dismantle any scaffold or scaffold element. Weekly sign off of access stairing and scaffold decks installed is to be done by the scaffold contractor only. Scaffold system elements must not be constructed of mixed system components unless specifically approved by the manufacturer or a competent person. Scaffolds used for block laying must be fitted with brick guards to protect edges. In Addition, a robust exclusion zone that takes account for potential arc of fall, deflection and bounce distances and has warning signs displayed must be implemented to prevent access by other workers adjacent to, or behind the block laying activity and the uncured wall.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>		Fire and explosion when soldering pipes.	C Possible	3 Medium	9	Hot works permit valid for activity. Area to be clear of any combustible material. Fire fighting equipment to be in date and in the vicinity of the refuelling activity. Haz goods to be stored correctly onsite and in ventilated areas. All personnel using chemicals to be inducted into the SWMS which are to include any controls as per the SDS for the specific product. All Jerry cans used must be returned to the Haz storage and secured, they are not to be left out onsite.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .	
<b>All Trades / Common Activity</b>		burns/ flash burn from welding	C Possible	3 Medium	9	Hot works permit valid for activity. Area to be clear of any combustible material. Test n tag of welder. Competent person to use welder. Fire fighting equipment to be in date and in the vicinity of the hot works. Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type). Correct PPE to be worn during the activity.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .	
<b>All Trades / Common Activity</b>		Inhalation of gasses and fumes from welding	C Possible	3 Medium	9	Correct PPE to be worn. Works to be completed in a ventilated area and consider the use of fans if needed. SDS to be communicated to All workers involved in the task via TBT or SWMS.	2. Administration	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .	

# PBS Project Risk Register



Workplace Location:		Belconnen and Woden Skatepark											
Issue Number:		1											
Activity Description		Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements	
								6. Elimination	0	%Controls ≥ Engineering	87%		
								5. Substitution	5	%Controls < Engineering	13%		
								4. Isolation	73	βCheck formulas in L2-L7 if you add rows to ensure range is correct			
								3. Engineering	244				
								2. Administration	48				
<b>All Trades / Common Activity</b>			Drowning - working near water holes	E Rare	4 Large	4	All water services are to be isolated when excavating. Isolation permit to be completed along with excavation permit. Bunges may need to be placed upstream of workers positions. Life bouys to be placed in the vicinity of nearby ponds. Sed or purpose built dirrectional fencing may need to be installed to direct the flow of potential water accessing the excavation - this may relate to weather events or if draining a line that is upstream of the excavation works. Pumps may need to be installed to remove water Correct PPE needs to be worn I.e. Gum boots in muddy trenches/ excavations.	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Excavation work CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .	
<b>All Trades / Common Activity</b>			Falls of Persons from Truck	C Possible	3 Medium	9	Mobile handrail system to be in place if person needs to access the trailer. Reo should come pre-slung in secured bundles. Mobile handrail system to be utilised onsite in loading bay areas.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>			Fire and explosion, Burns - using a grinder to Steel	C Possible	3 Medium	9	Hot works permit valid for activity . Area to be clear of any combustable material. Fire fighting equipment to be in date and in the vicinity of the refuelling activity. Haz goods to be stored correctly onsite and in ventilated areas. Correct PPE must be worn including a face shield and correct gloves. No cotton clothing to be worn during cutting activities as they are highly flammable.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .	
<b>All Trades / Common Activity</b>			failure of structure	D Unlikely	4 Large	8	Licenced competent scaffolders to only erect scaffolds and temp stair acceses. .HRSWMS in place for any High Risk Construction works. Correct PPE to be worn when handling materials. The Catch or Capture philosophy must be employed as the primary control to prevent the fall or reduce the distance of the fall. Lanyards/tethers must be used on all tools or equipment. Robust exclusion zones must be on place as a secondary control measure below areas where a risk of fall of materials/tools exists; these exclusion zones must be in place when erecting or dismantling scaffold and must account for potential arc of fall, deflection and bounce. Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type) to not allow any unauthorised entry into exclusion zones.	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>			Tampering of scaffold structure	E Rare	4 Large	4	Exclusion zone while erecting and dismantling scaffold will be installed. If anyone is caught tampering with scaffold components, then they will be removed from site immediately.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>			Ingress of water to excavation	E Rare	4 Large	4	All water services are to be isolated when excavating. Isolation permit to be completed along with excavation permit. Bunges may need to be placed upstream of workers positions. Life bouys to be placed in the vicinity of nearby ponds. Sed or purpose built dirrectional fencing may need to be installed to direct the flow of potential water accessing the excavation - this may relate to weather events or if draining a line that is upstream of the excavation works. Pumps may need to be installed to remove water Correct PPE needs to be worn I.e. Gum boots in muddy trenches/ excavations.	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Excavation work CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .	



# PBS Project Risk Register



Workplace Location: Belconnen and Woden Skatepark						Hierarchy of Control					Status	Legal and other requirements
Issue Number: 1						6. Elimination	0	%Controls ≥ Engineering	87%			
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Activity Description	Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements	
<b>All Trades / Common Activity</b>		Plant collision from other plant or person	D Unlikely	4 Large	8	Doggman/spotter to control the load using a tag line. Clear and precise commands (ie two way radios,hand signals or whistle blasts) to be used when communicating with the operator. Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type).	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>All Trades / Common Activity</b>		Failure of temp props	D Unlikely	3 Medium	6	Inspection on props/timber used Install props as per manufacturers requirements. Correct bolts to be used to secure props. all temporary works must be designed by a qualified, competent and registered engineer In Addition, a robust exclusion zone that takes account for potential arc of fall, deflection and bounce distances and has warning signs displayed must be implemented to prevent access by other workers adjacent to, or behind the fence installation activity. Fence panels must not be erected in adverse weather conditions.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage and control asbestos in the workplace CoP, How to manage work health and safety risks CoP, How to safely remove asbestos CoP.	
<b>All Trades / Common Activity</b>		Affects of working in Inclement weather - Cranes & EWP & Concrete Boom	C Possible	2 Small	6	All plant, especially lifting plant are not to work outside the manufacturers recommendations regards extreme weather i.e. wind speed. If lightning is present in the near sky or immediate sky above then all crane(s), EWP's and concrete booms must be lowered and persons to remain under cover in lunch sheds until the weather passes. In the event that the weather is extreme heat, then workers should consider rotating shifts or start work earlier or out of peak heat periods of the day. Drink plenty of water and take regular rest breaks in shaded or provided lunch sheds that have air-conditioning. In all types of weather you should always wear the appropriate PPE and extras i.e Sunscreen, Rain coat.....	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS Act 2011, WHS Reg's 2017, Construction work CoP, Hazardous manual tasks CoP, How to manage work health and safety risks CoP,Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP.	
<b>Concrete</b>		Failure of temporary structure	D Unlikely	5 Very Large	10	Structural engineers certification of the temp deck to be completed and all load point to be in design, this is to be communicated to All workers involved with the deck and all trades supervisors.. Securing requirements, bracing and fixing details must be verified to be in accordance with an approved design and include suitable structural fixings that account for wind load considerations based on locality.HOLD POINT - PBS pre pour inspection check list to be completed before a pour of any decks are to commence.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>Crane (Franna/Mobile/Crawler/Telehandler)</b>		Inground services during crane transit onsite	C Possible	5 Very Large	15	TTMP to be established for crane route onsite so it misses any in-ground services trenching.	2. Administration	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .	
<b>Crane (Franna/Mobile/Crawler/Telehandler)</b>		Plant and People separation	C Possible	4 Large	12	Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type) used to not allow any unauthorised entry into exclusion zones. Crane out riggers to be protected with concrete jersey curbs or similar to prevent contact with trucks and other vehicles. Pedesrian walkways onsite not to be inside or directed to crane work zone(s). Signage in place to communicate that only authorised workers to be in crane work zone.	4. Isolation	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	
<b>Crane (Franna/Mobile/Crawler/Telehandler)</b>		Crane & equipment failure	C Possible	5 Very Large	15	All lifting equipment must be in good condition and regularley serviced as per manufacturers specs(i.e. Spreader bars, chains, slynthetic slings, clutches). Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type). Crane to work lower than 95% capacity. Set up in areas that are approved by the PBS Site Manager. Pre-start to be conducted on Crane before use. Crane to be less than 20yrs old and a 10yr structural inspection completed. Lift study for any loads over 20tonne or when expecting to use crane over 95% capacity. Do not operate crane in adverse weather conditions which may effect the load or crane. Crane maintenance to be up to date and any repairs to be done prior to lifting.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .	

# PBS Project Risk Register



Workplace Location: Belconnen and Woden Skatepark						Summary					
Issue Number: 1						6. Elimination	0	%Controls ≥ Engineering	87%		
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Activity Description	Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements
<b>Crane (Franna/Mobile/Crawler/Telehandler)</b>		Crushing a person or property while performing pick and carry tasks with Franna/Telehandler	D Unlikely	4 Large	8	Doggman/spotter to control the load using a tag line. Clear and precise commands (ie two way radios, hand signals or whistle blasts) to be used when communicating with the operator. Stop the Franna/Telehandler movements and use clear communication when dealing with pedestrians and other plant. Operator to obey any and all directions issued by the doggman/spotter.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>Electrical</b>		electrocution from commissioning works	C Possible	4 Large	12	HRSWMS to be in place for the task. All inground services are to be located using DBYD, All inground services that are within 1m of the direct work area are to be isolated(as per excavation permit), excavation permit / Energise or isolate permit may be necessary depending on the task, Aluminium ladders to be used, correct PPE. HOLD POINT - Contractor needs approval to energise, by the PBS Site Manager. Live temporary electrical cabling must be identified with yellow tag tape every 3m, where cabling is accessible. Competent Persons must carry out electrical inspection, testing and tagging of RCD's Monthly and leads 3 monthly. All temporary electricity provided to socket (general purpose) outlets must be protected by a Residual Current Device. Isolate live cables where possible, All contractors shall produce HRSWMS, identify the risks, hold points, testing procedures and identify Plant needed for reducing the risks etc. Drilling & cutting. Any works requiring drilling or cutting into areas, materials or structures that MAY contain live electrical shall be thoroughly investigated prior to works. An electrician is required to sign off prior to drilling /cutting within 2m of any alignment of GPO or electrical fitting, light switch. Electrical apprentices and trades assistants must work under the supervision of a licenced electrician at all times. All electrical work (other than inspection and testing of portable equipment) must be carried out by a licenced electrician & each electrician must verify their licence before they commence electrical works. Calibration of all testing equipment must be carried out at a minimum yearly. Cordless tools are encouraged to be used before power tools. Every cable end (i.e. awaiting termination) must be folded over itself and taped to prevent eye damage and electric shock(in the event of inadvertent energisation).	4. Isolation	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .
<b>Facade</b>		fall of person through fascade opening	D Unlikely	4 Large	8	HRSWMS in place for any High Risk Construction works. Correct PPE to be worn when handling materials. VOC for Plant use. Keep EWP clean and clear of any excess materials. The Catch or Capture philosophy must be employed as the primary control so to prevent the fall or reduce the distance of the fall. Lanyards/tethers must be used on all tools or equipment. Robust exclusion zones must be on place as a secondary control measure below areas where a risk of fall of materials/tools exists; these exclusion zones must account for potential arc of fall, deflection and bounce. Robust fencing shall be installed from a height of 2m-4m (pedestrian fencing type).	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
<b>Fencing</b>		Falls from height into pier holes	C Possible	4 Large	12	Pier holes to be protected by a robust and certified handrail system. A certified mesh cover is to also be pinned down over the pier hole inside the fencing. Pier hole methodology to be approved by PBS.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .
<b>Landscaping</b>		fall of person from moving vehicle - Spray seed truck.	C Possible	4 Large	12	Handrail system to be engineered to restrain the operator whilst on the back of the truck when spraying. Vehicle must not exceed 5km/h during the task and sprayer must come down from the back of the truck after spray task is complete. persons are not to remain up top during normal driving on/off site.	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .

# PBS Project Risk Register



Workplace Location: Belconnen and Woden Skatepark						Summary					
Issue Number: 1						6. Elimination	0	%Controls ≥ Engineering	87%		
						5. Substitution	5	%Controls < Engineering	13%		
						4. Isolation	73	βCheck formulas in L2-L7 if you add rows to ensure range is correct			
						3. Engineering	244				
						2. Administration	48				
Activity Description	Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Critical Control Measures	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements
Mechanical (Air-con)		Failure of duct hoist	D Unlikely	3 Medium	6	All duct lifters and portable type hoists must have a failsafe system so that in the event of a hoisting wire failure the load cannot fall. In addition, outriggers where fitted must be used, SWL must be clearly marked & only propriety attachments are used and only in accordance with manufacturers instructions.	3. Engineering	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .
Mechanical (Air-con)		electrocution from commissioning works	C Possible	4 Large	12	HRSWMS to be in place for the task. All inground services are to be located using DBYD, All inground services that are within 1m of the direct work area are to be isolated(as per excavation permit), excavation permit / Energise or isolate permit may be necessary depending on the task, Aluminium ladders to be used, correct PPE. HOLD POINT - Contractor needs approval to energise, by the PBS Site Manager. Live temporary electrical cabling must be identified with yellow tag tape every 3m, where cabling is accessible. Competent Persons must carry out electrical inspection, testing and tagging of RCD's Monthly and leads 3 monthly. All temporary electricity provided to socket (general purpose ) outlets must be protected by a Residual Current Device. Isolate live cables where possible, All contractors shall produce HRSWMS , identify the risks , hold points, testing procedures and identify Plant needed for reducing the risks etc. Drilling & cutting. Any works requiring drilling or cutting into areas , materials or structures that MAY contain live electrical shall be thoroughly investigated prior to works. An electrician is required to sign off prior to drilling /cutting within 2m of any alignment of GPO or electrical fitting, light switch. Electrical apprentices and trades assistants must work under the supervision of a licenced electrician at all times. All electrical work (other than inspection and testing of portable equipment) must be carried out by a licenced electrician & each electrician must varify thier licence before they commence electrical works. Calibration of all testing equipment must be carried out at a minimum yearly. Cordless tools are encouraged to be used before power tools. Every cable end (i.e. awaiting termination) must be folded over itself and taped to prevent eye damage and electric shock(in the event of inadvertent energisation).	4. Isolation	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .
Plumbing		Ingress of water to excavation	D Unlikely	4 Large	8	All water services are to be isolated when excavating. Isolation permit to be completed along with excavation permit. Bunges may need to be placed upstream of workers positions. Life bouys to be placed in the vicinity of nearby ponds. Sed or purpose built dirrectional fencing may need to be installed to direct the flow of potential water accessing the excavation - this may relate to weather events or if draining a line that is upstream of the excavation works. Pumps may need to be installed to remove water Correct PPE needs to be worn i.e. Gum boots in muddy trenches/ excavations.	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Excavation work CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .
Roofing / Mesh & Gutters		Unsuitable access to roof	D Unlikely	4 Large	8	Stretcher stair to provide access. Scaffold to have weekly certifications completed by competent scaffolder. No one is to alter the scaffold unless they are the employee of the contacted scaffolder. Restricted access to site via locable scaffold tubing entry and roof access register to completed for other trades wanting to enter roof zone.	4. Isolation	Permits, Pre-starts, TBT's, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction Work CoP, How to manage work health and safety risks CoP, Managing the risk of falls at workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation, PBS Safety Guide , .

# PBS Project Risk Register



Workplace Location: Belconnen and Woden Skatepark						Issue Number: 1				
Activity Description						Critical Control Measures				
Responsible Contractor	Hazard / Impact (Worst Credible Consequence)	Likelihood	Consequence	Risk Rating	Hierarchy of Control Highest Level Control?	Monitoring Frequency?	Action by whom (Title)	Status	Legal and other requirements	
	electrocution from commissioning works	C Possible	4 Large	12	HRSWMS to be in place for the task. All inground services are to be located using DBYD, All inground services that are within 1m of the direct work area are to be isolated(as per excavation permit), excavation permit / Energise or isolate permit may be necessary depending on the task, Aluminium ladders to be used, correct PPE. HOLD POINT - Contractor needs approval to energise, by the PBS Site Manager. Live temporary electrical cabling must be identified with yellow tag tape every 3m, where cabling is accessible. Competent Persons must carry out electrical inspection, testing and tagging of RCD's Monthly and leads 3 monthly. All temporary electricity provided to socket (general purpose ) outlets must be protected by a Residual Current Device. Isolate live cables where possible, All contractors shall produce HRSWMS , identify the risks , hold points, testing procedures and identify Plant needed for reducing the risks etc. Drilling & cutting. Any works requiring drilling or cutting into areas , materials or structures that MAY contain live electrical shall be thoroughly investigated prior to works. An electrician is required to sign off prior to drilling /cutting within 2m of any alignment of GPO or electrical fitting, light switch. Electrical apprentices and trades assistants must work under the supervision of a licenced electrician at all times. All electrical work (other than inspection and testing of portable equipment) must be carried out by a licenced electrician & each electrician must varify thier licence before they commence electrical works. Calibration of all testing equipment must be carried out at a minimum yearly. Cordless tools are encouraged to be used before power tools. Every cable end (i.e. awaiting termination) must be folded over itself and taped to prevent eye damage and electric shock(in the event of inadvertent energisation).	4. Isolation	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Construction work CoP, How to manage work health and safety risks CoP, Managing electrical risks in the workplace CoP, Managing the risks of plant in the workplace CoP, Work health and safety consultation, coordination and cooperation CoP. PBS Safety Guide .
	Fire or explosion from using bonding/cleaning products	C Possible	3 Medium	9	Fire fighting equipment to be in date and in the vacinity of the hazardous materials thats being used in case of accidental ignition. Haz goods to be stored correctly onsite and in ventilated areas. All personnel using chemicals to be inducted into the SWMS which are to include any controls as per the SDS for the specific product. Contractor to provide Lockable Bunded storage for their Hazardous storage	3. Engineering	SWMS Review, Permits, Pre-starts, TBT's, Plans/Drawings, Plant inspections, Onsite inspections,	SM, Foreman, PBSCW, CA, EHS&Q Manager, Contractors Supervisor, HSR, CW's	Open	WHS ACT 2011, WHS Reg's 2017, Excavation Work CoP, How to manage work health and safety risks CoP, Construction work CoP, First aid in the workplace CoP, How to manage work health and safety risks CoP, Labelling of workplace hazardous chemicals CoP, Managing risks of hazardous chemicals in the workplace CoP, Managing the risks of plant in the workplace CoP, Preparation of safety data sheets for hazardous chemicals CoP, Welding processes CoP, Work health and safety consultation, coordination and cooperation CoP, PBS Safety Guide .