

Mobile Plant Risk Assessment

MACK TRIDENT		Location: Mambray Creek
Asset Number: PM10		Work Area: Quarry
Registration Number: SB 47 NQ		Assessors: Jordan King
Make / Model Number: Mack CMHT 6x4 Prime Mover		Date of assessment: 2/10/2020
Applicable legislation: South Australian Heavy Vehicle National Law (SA Act 2013)		Reviewed by: AARON WALTER
Certification of operator required: MC Drivers License Road Trains MC Drivers License Single Trailer HC DRIVERS LICENCE		Date of review: 5 / 01 / 2026

Description of Use:	Carting Quarry Material to site / CARTING IN PRODUCTS
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RISK RATING TABLES

Consequence Levels

Consequences	Safety	Quality / Productivity / Performance	Financial	Environment
Catastrophic	Fatality & Prosecution	Audit non-conformance, multiple complaints, Job to be returned / repeated	\$500,000	Outside, off site - EPA improvement note (Significant Aspect)
Worrying	LTI (serious or permanent injury) & Regulator PIN	Audit observation, job rework or Customer non-conformance / Complaint	\$100,000	Outside, off site - no regulator action (Significant Aspect)
Concern	MTI (casualty treatment)	Found in-house and quarantined (sort)	\$10,000	Contained on premises, outside
Not Significant	First Aid Treatment (or Not Relevant)	Found In-house and immediately addressed (or Not Relevant)	\$1,000	Contained inside business/buildings (or Not Relevant)

RISK CALCULATOR

	How likely is it to occur?			
How severe could the Consequences be?	Very likely Could happen any time	Likely Could happen sometime	Unlikely Could happen but very rarely	Very unlikely Could happen, but probably never will
Catastrophic	1 (H)	1 (H)	1 (H)	2 (M)
Worrying	1 (H)	1 (H)	2 (M)	2 (M)
Concern	1 (H)	2 (M)	2 (M)	3 (L)
Not Significant	2 (M)	2 (M)	3 (L)	3 (L)

RISK CONTROL (Removing the hazard or reducing the risk)

The WHS Regulations (Regulation 36) require us to follow the Hierarchy of Control measures. Elimination is the first choice in controlling hazards. Where elimination is not practicable, substitution, isolation and engineering controls should be considered next. Administrative controls and personal protective equipment should only be used when other control measures have been considered but are not practicable.

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
ENTANGLEMENT Can anyone's, hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?	Y	Body parts caught in moving parts during operation, cleaning and inspections	W	U	2(M)	Manufacturers Warning Decals Readable Guards installed Warning Decals for Personal (i.e .loose clothing etc) Engine covers fitted			Licensed Drivers only Qualified Mechanic
CRUSHING Can a person be crushed due to: ◆material falling from the trailer? ◆Cab failing during maintenance ◆uncontrolled or unexpected movement of the Truck or its load? ◆lack of capacity for the plant to be slowed, stopped or immobilised? ◆the plant tipping or rolling over?	Y Y Y	Crushing during maintenance Crushing during tip off Pedestrians or bystanders may be crushed Operator crushed during machine rollover	C a t	V U	2(M)	Lock out system, Exclusion zones while tipping Neutral start switch fitted Reversing/travel alarm Crush zone warning decal Amber Flashing Beacon Pedals-Non slip surface Controls have appropriate knobs Reversing Light Rear view mirror Wheel Chocks Brake Lights (if fitted) Service brake operational Parking brake operational Battery Isolator fitted <			

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
♦parts of the plant collapsing?	Y	Driver crushed while conducting inspections and while cleaning	W	U	2(M)				
♦being thrown off or under the Truck/Trailer?	Y	Refer above (roll-over)	C a t	V U	2 (M)	Seat belt fitted Door fitted Seat belt must be worn, warning decal fitted Windows always closed Operator Cabin open			
CUT/STAB/PUNCTURE Can anyone be cut, stabbed or punctured due to: ♦coming into contact with sharp or flying objects?	Y		C o n	U	2 (M)	Guarding No visible signs of sharp objects			
♦coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant?									
♦the plant, parts of the plant or work pieces disintegrating?									
♦work pieces being ejected?									
♦the mobility of the plant?									
♦uncontrolled or unexpected movement of the plant?									
SHEARING Can anyone's body parts be sheared between any two parts of the plant, or between a part of the plant and a work piece or structure?	Y	Pedestrians or Bystanders caught between machine and fixed objects	W	V U	2(M)				Traffic Mgmt. plan in place SWMS to be in place Operator training
FRICTION	N								

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
Can anyone be burnt due to contact with moving parts or surfaces of the plant, or material handled by the plant?									
STRIKING Can anyone be struck by moving objects due to: ◆uncontrolled or unexpected movement of the plant?	Y	Pedestrians or bystanders may be struck by machine	C	U	2(M)		Y		Traffic management controls in place.
◆the plant, parts of the plant or work pieces disintegrating?									
◆work pieces being ejected?						Guarding	Y		
						Keep clear warning decals	Y		
						Quick hitch independent latching device	N		
						Keeper pins correct type	N		
						Glass safe operational condition	Y		
						Reversing / travel alarm	Y		
						Amber flashing beacon	Y		
						Reversing decal fitted	N		
						Brake lights	Y		
						Warning horn	Y		
						Indicators		NA	
◆mobility of the plant?									
HIGH PRESSURE FLUID Can anyone come into contact with fluids or gas under high pressure, due to plant failure or misuse of the plant?	Y	Hydraulic failure	C	U	2(M)	No return valves fitted	Y		Regular maintenance and inspection program in place
						Leakage	N		
						All pipe clamps fitted	Y		
						High pressure warning decals	N		

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
ELECTRICAL Can anyone be injured by electrical shock or burn due to: ♦the plant contacting live electrical conductors? ♦the plant working in close proximity to electrical conductors? ♦overload of electrical circuits? ♦damaged or poorly maintained electrical leads and cables? ♦damaged electrical switches? ♦water near electrical equipment? ♦lack of isolation procedures?	N	Contacting overhead power lines or other structures overhead				Electrical wire / overhead wires / obstructions decals fitted	Y		JHA & SOP to be in place
EXPLOSION Can anyone be injured by explosion of gasses, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?	N								
SLIP/TRIP/FALL Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: ♦uneven or slippery work surfaces? ♦poor housekeeping, eg. swarf in the vicinity of the plant, spillage not cleaned up? ♦obstacles being placed in the vicinity of the plant? ♦lack of a proper work platform? ♦lack of proper stairs or ladders? ♦lack of guardrails or suitable edge protection? ♦unprotected holes, penetrations or gaps?	Y	Operator slips or falls while entering or exiting equipment	C	L	2(M)	Non slip surface	Y		
						Proper work platform	Y		
						Proper stairs or ladders	Y		
						Guardrails or suitable edge protection		N/A	
						Handrails / hand-holds provided	Y		

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
◆ poor floor or walking surfaces, such as the lack of a slip resistant surface?						Non slip surface	Y		
◆ steep walking surfaces?									
◆ collapse of the supporting structure?									
ERGONOMIC Can anyone be injured due to: ◆ poorly designed seating?	Y	Prolonged use of equipment with operator in static seating position	C	U	2 (M)	Seat in safe usable condition	Y		
◆ Constrained body effort						Operational control levers & pedals in operator reach	Y		
						Seat adjustment controls operational	Y		
						Operators controls identified	Y		
SUFFOCATION Can anyone be suffocated due to lack of oxygen or atmospheric contamination, refer to the Confined Spaces Regulations?	N					All labels are readable			
						Engine fumes not excessive at high idle			
TEMPERATURE / FIRE Can anyone come into contact with objects at high temperature?	Y	Contact with hot engine parts or exhaust	C	U	2 (M)	Door/window seals maintained	Y		
						High mounted exhaust not easily accessible	Y		
						Exhaust guard fitted	Y		
						Fire protection supplied	Y		
						Hot surface warning decal	Y		
THERMAL COMFORT Can anyone suffer ill health due to extreme temperature or change of weather?	Y	Working in hot/cold weather	C	U	2 (M)	Air conditioning	Y		
						Ventilation	Y		
NOISE	Y		C	U		Enclosed cabin	Y		

Hazard Type	Yes / No	Hazard Description	C	L	R	Control Methods in Place	Yes / No	NA	Comments / Recommended Improvements
Can anyone suffer ill health or hearing loss due to exposure to high noise levels ?		Prolonged exposure to engine noise			2 (M)	Hearing protection supplied		NA	
DOCUMENTATION	Y					SWL / WLL marked on boom	N		
						Load capacity chart fitted	N		
						Lifting points approved	N		
						Operator's Manual	N		
						JSA/SWMS/SOP available	N		
						Plant daily checklist in place	N		
						Maintenance records up to date	Y		

Photos and Additional Comments