

# Use Of The Track Sled For Sledding Timber Track

Issue date: 11/04/08

Review date: 18/02/11

<b>SWMS number:</b> SMS-06-SW-1065	<b>SWMS Name:</b> Use Of The Track Sled For Sledding Timber Track			<b>SWMS Team:</b> Track Review Team
<b>Custodian (Position):</b> Track Works Manager Commercial / Renewals	<b>Assumptions:</b> Site specific risks are addressed and assessed in pre- work briefing			
<b>Approving Authority (Position):</b> Safety and Quality Manager, Commercial / Renewals	<b>Equipment/Plant/Tools:</b> <ul style="list-style-type: none"><li>Front End Loader, Bobcat, Track Sled, Approved Chains</li><li>Hand Tools, Track Jack</li><li>Oxy / LPG Cutting Equipment, Rail Saw</li></ul>	<b>Records/Reporting:</b> <ul style="list-style-type: none"><li>Worksite Protection Plan</li><li>Pre-work Brief</li><li>Electrical Permits</li><li>Fuel and Hydraulic Oil MSDS</li><li>Daily Plant Checklist</li></ul>	<b>Permits/licences required:</b> <ul style="list-style-type: none"><li>Electrical Permit Holder</li><li>Front End Loader, Bobcat Operator Certificates</li><li>Oxy / LPG Cutting Ticket</li></ul>	
<b>Applicable Standards, Codes of Practice and guidance:</b> <ul style="list-style-type: none"><li>OH&amp;S Act 2000</li><li>OH&amp;S Regulation 2001</li><li>Rail Safety Regulation 2003</li><li>RailCorp Network Rules &amp; Procedures</li><li>RailCorp Safety Management System.</li><li>MSDS for all chemicals and hazardous Substances used on site</li><li>EC14 – Guide to Electrical Workers Safety Equipment</li><li>National Code of Practice for Manual Handling [NOHSC:2005]</li><li>WorkCover NSW Plant Guide</li><li>AS 4839 portable oxy-fuel gas systems</li><li>AS-3961-2005 The Storage and Handling of Gases in Cylinders</li></ul>	<b>Inspection requirements:</b> Nil	<b>Service schedule:</b> Nil	<b>Training/Qualification required:</b> <ul style="list-style-type: none"><li>Construction Industry Induction</li><li>Track Safety Awareness or RISI (Rail Industry Safety Induction)</li></ul>	<b>Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group)</b> Track Works Manager & SEQ Coordinator Asset Management Group Commercial / Renewals
		<b>MIMS or METRE Ref:</b> Nil		<b>Personal Protective Equipment required:</b> <ul style="list-style-type: none"><li>Safety Boots</li><li>High Visibility Vests</li><li>Hardhats</li><li>Protective Clothing</li><li>Safety Glasses / Full Face Shields</li></ul> And as specified below. <ul style="list-style-type: none"><li>Gloves</li><li>Welding Goggles / Spats</li><li>Dust Masks (as required)</li><li>Hearing protection</li></ul>

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Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed in accordance with (name associated documentation)
1	Place sled on track	Live OHW could come in contact with machinery.	B+	Obtain Electrical Permit	D	Qualified permit holder to obtain permit and all staff to have electrical awareness.	Work Around Elect. Equip. SMS-06-GD-0268 Electrical Permits SMS-06-EN-0577
2	Conduct visual inspection of sled and chains and connection to appropriate machine	Chains breaking, sliding off machine if not connected correctly or incorrect machine used. Chains striking workers.	C+	Qualified/experienced worker to complete visual inspection and connect chain to appropriate machinery.	C-	Supervisor or qualified Staff	Plant SMS-06-GD-0225
3	Remove fastenings from rail for the first three sleepers and all rail anchors for the length of the job. (Manually or using Track Jack)	Eye, face, foot, back & hand injuries.	C+	Use appropriate PPE. Manual handling training.	C-	Supervisor or qualified staff	PPE SMS-06-GD-0323 Manual Handling Guide SMS-06-GD-0001
		Eye, face, foot, back & hand injuries.	C+	Training on machines. Use appropriate PPE. Include in pre-work briefing.	C-	Supervisors Workers Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
4	Lift rail approximately 600mm out of ballast using track jack.	Hit by machine. Crushing.	C+	Keep clear of machinery. Training on machines. Use appropriate PPE. Include in pre-work briefing.	C-	Supervisors Workers Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
5	Install sled between rail and sleepers using plant. (e.g. Bobcat or FEL)	Hit by machine. Crushing.	B+	Keep clear of machinery. Training on plant/machines. Use appropriate PPE.	C+	Supervisors Workers Ticketed Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
6	Sled track at walking pace only.	Hit by machine and flying objects (ballast, jewellery, rail)	B+	Keep all staff clear of machinery (minimum of 6m) and use observer for directing machine and warning other workers to stay clear. Qualified/experienced operators. Use appropriate PPE.	C+	Supervisors Workers Ticketed Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225

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7	Cut rail using OXY / LPG or rail saw	Burns, abrasions, cuts.	C-	Use qualified staff for oxy cutting and rail saw cutting.	C-	Qualified Staff	Plant SMS-06-GD-0225 AS-4839 (Safe use of Oxy-fuel Gas Sys) Storage/Handling of Gases SMS-06-SW-0196
8	Drag sled out of track and remove.	Hit by machine. Crushing.	B+	Keep clear of machinery. Training on plant/machines. Use appropriate PPE. Include in pre-work briefing.	C+	Qualified Staff Ticketed Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
9	Disconnect chains from machine.	Cuts, abrasions, crushing	B+	Qualified/experienced worker to complete visual inspection and disconnect chain to appropriate machinery.	C+	Qualified Staff	Plant SMS-06-GD-0225

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**NOTE: Each work group or team member must sign off on the SWMS to acknowledge they have been briefed about or instructed in the SWMS**

Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date	Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date

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RailCorp Level 2 Risk Matrix - Regional & Local (Workplace)		Likelihood/Frequency							Definition for Use - Regional & Local level (Workplace)
		Event Frequency	Less than once every 1000 years	Once every 100 to 1,000 years	Once every 10 to 100 years	Once every 1 to 10 years	More than once per year up to and including 10 times per year	More than 10 times per year	
		Historical (Likelihood)	Unheard of in the rail industry	Has occurred once or twice in the rail industry	Has occurred many times in the rail industry, but not in NSW	Has occurred once or twice in NSW	Has occurred frequently in NSW	Has occurred frequently at specific locations	
		Workplace Predictive (Likelihood)	Not expected to occur	May occur only in exceptional circumstances	Could occur at some time but not likely	You would expect it to occur at least once in the next 10 years performing similar activities	You would expect it to occur at least once this year performing similar activities	You would expect it to occur at least once this month performing similar activities	
Consequence			F1	F2	F3	F4	F5	F6	
			Incredible	Improbable	Remote	Occasional	Probable	Frequent	
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A	A	<p>To score the risk, follow the steps:</p> <p>1. Identify the magnitude of the credible consequence if the risk were to occur. If applicable, risks should be considered in terms of the safety (this matrix), commercial and environmental impact (using other matrices).</p> <p>2. Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place)</p> <p>3. Score the risk using the combination of likelihood and consequence ranking.</p> <p>Note: Where there are a range of credible consequences which may lead to a different level or risks and/or where the controls may be different. It may be useful to score the risk more than once.</p>
2-10 Fatalities	C5	Catastrophic	C+	B-	B+	A	A	A	
1 Fatality (2-10 Major Injuries)	C4	Critical	C-	C+	B-	B+	A	A	
1 Major Injury	C3	Major	D	C-	C+	B-	B+	A	
1 or more Minor Injuries	C2	Minor	D	D	C-	C+	B-	B+	
First aid treatment, or illness/injury not requiring treatment	C1	Negligible	D	D	D	C-	C+	B-	