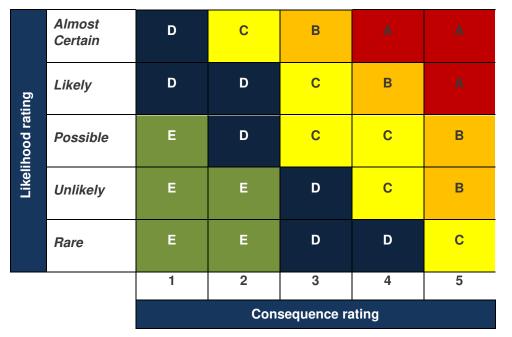


Assessment Number: 1		A	Assessment Date: 25/8/20
Plant Type:ChipperPlant Make:Red RooPlant Model:C100		A	Assessment Facilitated by: Leigh Evans (Admin/Accounts Manager)
Asset/Fleet/Rego No: X33466 Plant Serial No. CHIPP2		A	Assessment Participants: Lachlan Horton (Yard Manager)
Plant Owner Name: Northern Hire Group		h	Initial Assessment Follow up Assessment (See below)
Follow up based on change to:			
Use of plant 🗌 System of work 🗌 Plant	Environmen	t 🗌	New or additional information Plant through modification
Is the plant designed to perform the task?	Yes X N	lo 🗌]
Has the plant been modified from the original condition?	Yes 🗌 🛛 N	lo X	
Is the plant in good working condition and free of weeds & mud?	Yes X N	10 🗌]
All identified action items closed out/addressed (plant checks)?	Yes X N	lo 🗌	
Is the plant safe to operate? (On completion of PHA and action closure)	Yes X N	lo 🗌]
			Date: Signature:



Risk / Opportunity Rating Table (see Risk Management Consultation

<u>Process Appendix</u> for a full description of Risk Consequence, Opportunity Consequence and Likelihood Ratings)



Action and Approval Scheme

These suggested timings and tolerance levels in the Action Table will be overridden by specific policies of the company that either dictate shorter timeframes for corrective action or zero tolerance. For example, the company has a zero tolerance policy for Safety and Environmental risks.

The decision to tolerate a risk or capture a opportunity should be based on a consideration of:

Whether the risk / opportunity is being controlled to a level that is reasonably achievable;

Whether it would be cost-effective to further control risk or capture the opportunity;

Whether user wishes to tolerate risks / opportunities of that type

Action Table

Residual risk / opp level	Suggested action	Timing of status report and management plans	Authority for continued toleration or improvement of residual rating.
А	Take action to eliminate or implement additional controls to reduce it to acceptable level (ALARP/SFAIRP). "Onsite activities" – Intolerable and activity must not commence	Report as soon as practicable. Normally within hours.	Senior Executive Manager Plus Project Manager / Project Leadership Team
В	Implement additional controls reduce it to ALARP/SFAIRP. "Onsite activities" – must not commence without Corporate Management review	Manage and re-evaluate risk / opportunity to allow reporting days Manage and re-evaluate risk / opportunity to allow reporting every two weeks	General Manager and / or Project Manager / Project Leadership Team
с	Implement additional controls reduce it to ALARP/SFAIRP. "Onsite activities" – must not commence without Site Management review	Manage and re-evaluate risk / opportunity to allow reporting monthly	"Specialist" Manager, eg Construction or Design Manager
D	Will still require attention within existing operations to reduce to ALARP/SFAIRP. "Onsite Activities" – Site Management must determine appropriate level of management and supervision prior to commencement of activity	Manage and re-evaluate risk / opportunity to allow reporting every quarter	Team Leader
E	Lower priority. May be tolerable.	Monitor, manage and carryout activity in accordance with identified controls	Supervisor

Revision No: 1 Issue Date: 25/8/2020



Potential Hazards		Haza		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action By:	Action Verified as Complete: (Name and
	Υ	Ν	N/ A				on Plant	Level	(Name and Date)	Date)
 Are there any specific warnings or conditions (manufacturers or other) relating to potential hazards from the operation of the item of plant? Refer to technical or operating manuals, SOPs, safe use instructions List any relevant safety warning hazards & controls 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 2. Are there any <u>COMMUNICATION</u> requirements in relation to the safe operation of the plant? Active signalling processes. Point to point communications. Whistle Spotter (with/without whistles) Flag signalling Labels and signage 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 3. Can anyone be <u>ENTANGLED</u> in the plant? Hair or other body parts caught in moving parts PPE caught in moving parts Isolation devices Warning decals Guarding Rotating parts Emergency stops 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					



Potential Hazards	ł	lazar		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action	Action Verified as Complete: (Name and
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	Date)
 4. Can anyone be CRUSHED or TRAPPED? (e.g. through unexpected movement, lack of capability for plant or equipment to be slowed, stopped or immobilised, plant tipping or rolling, being thrown from plant) Emergency stop (E Stop) Service or parking brake Battery isolator ROPs/FOPs Being crushed between moving parts Unexpected movement Neutral Start Reversing/travel alarm Warning horn Amber flashing beacon Rear swing warning lights Pedals non slip surface Appropriate controls Rear view mirror Seat belt Door inter locks Crush zone decals Guarding devices Mandatory secondary protection device installed on all boomtype MEWP 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual Do not use on uneven or unstable ground					



Potential Hazards	ŀ	lazaı	rd N/	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action By:	Action Verified as Complete: (Name and
	Υ	Ν	A				on Plant		(Name and Date)	Date)
 5. Can anyone be CUT, STABBED or PUNCTURED? Flying objects Moving parts Pinch points Sharp edges Isolation devices Warning decals Guarding 	Y			Potental Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 6. Can SHEARING occur? Between two moving and rotating parts Between fixed and moving parts Warning decals Guarding 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 7. Can ABRASION, TEARING or STRETCHING occur? Continuous contact with moving parts Warning decals Guarding Pulling/pushing 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					



Potential Hazards	ŀ	lazaı		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
 8. Can anyone be STRUCK whilst operating the plant? Plant disintegrating Mobility of plant travelling Reversing/travel alarm Amber flashing beacon Work pieces thrown out Moving parts Warning decals Guarding 	Y			Potential hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual. Site risk assessment must be undertaken by client prior to operating plant					
 9. Can a hazardous PRESSURE be produced? Hydraulic hoses Radiator Come into contact with fluids under high pressure 		N								
 10. Can an ELECTRICAL hazard be created? Lack of insulation Contact with electrical conductors Poor earthing Water near equipment Lack of isolation Warning decals 		Ν								



Potential Hazards	ł	Hazar	ď	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
 11. Can an EXPLOSION or LOSS OF CONTENTS occur? Gas emission, Dusts Vapours, lubricants Fuel tank Storage of haz chemicals/ DG's near plant Warning decals Ejection of workpiece Collapse or fragmentation 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 12. Can anyone using or near the plant SLIP, TRIP or FALL? Uneven surface Fall from a height Weather conditions Slippery surfaces 	Ŷ			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual Site risk assessment must be undertaken by client prior to operating plant					
 13. Are there ERGONOMIC MANUAL HANDLING hazards associated with the plant? Poor posture Repetitive or sustained movements Awkward positions Strained movements Poorly designed seating Access and egress Access for maintenance Routine inspections and adjustments 	Ŷ			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					



Potential Hazards	ł	Hazar		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
14. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant?		N								
 Difficult to understand Inappropriate colouring Function not identified Inappropriate controls & switches Access and egress Labelling of controls and indicators Variation in operators Operation by two or more persons 										
 15. Are there specific requirements for ISOLATION of energy sources? Hydraulic pressure Compressed gases Electrical feeds/capacitors Motive power systems Suspended loads 		N								
 Operation by two or more persons 16. Can unplanned LOSS of POWER create a hazard? 		N								
 Engine shutdown Loss of electrical supply Loss of steering systems Ability to apply brakes and stop Ability to lower suspended loads 										



Potential Hazards	I	Hazaı		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
17. Can anyone be SUFFOCATED?		N								
 Lack of oxygen Contaminated atmosphere Confined spaces Spaces where air flow is inadequate 										
18. Does operation of the plant cause extreme TEMPERATURE changes?		N								
 Fire Burns through conduction Convection Cryogenic burns Operation in extreme heat or cold 										
 19. Can a FIRE occur? Friction Ingress of materials/fluids Build-up of materials/lubricants Fuels Fire extinguisher 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 20. Can certain WEATHER conditions create a hazard? Hypothermia / extreme cold Heat stroke / extreme hot Wet conditions Electrical storms Dirt & mud on roads at egress 	Y			Potential Hazard	Site risk assessment must be undertaken by client prior to operating plant. Observe local weather					



Potential Hazards		Haza		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
 21. Does VIBRATION of the plant create a hazard? Plant becomes unstable Causes physical problems for the operator whilst operating Vibration of equipment Operation could cause unacceptable vibration levels in nearby structures 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 22. Can the plant emit toxic FUMES or VAPOURS? Exhaust fumes Chemicals Haz chemicals/DG's 	Y			Potential Hazard from exhaust fumes	Do not use in enclosed spaces. Ensure adequate ventilation					
 23. Carry out NOISE survey on page 14. Is the plant noisy? Emit >85 dBA at the operator Effects operator communication Noise impacts on community during out-of-hours work (including reversing beepers) 	Y			Potential hazard with prolonged use	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 24. Carry out the LIGHT survey on page 14. Is there poor visibility At the controls At the task Darkens surrounding areas Light impacts on community or sensitive natural environment during out-of-hours work 			N/ A							



Potential Hazards	I	Hazaı	-	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
 25. Does the plant emit RADIATION? Eg X-rays EMR Laser 		Ν								
 26. Can operation of the plant create DUST? Explosive atmosphere Breathing hazard Reduced visibility Nuisance dust at nearby community Impact on local flora and fauna Loss of topsoil and spread of weeds and pathogens 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual Site risk assessment must be undertaken by client to ensure hazardous dust is not disturbed by plant/task (e.g. asbestos) Exclusion zones and PPE (goggles, mask, protective clothing) will be required and a risk assessment must be undertaken onsite to determine PPE and controls					



Potential Hazards	ŀ	lazar	ď	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
 27. Can the plant become UNSTABLE during operation? Working on uneven / unstable ground Shifting load Lack of plant support Outriggers 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
					Do not use on uneven or unstable ground					
28. Could LOSS of LOAD occur?		Ν								
 Failure of ropes/slings Overloading Entanglement in surrounding structures Maintenance requirements 										
 29. Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard? Power lines Low ceiling Other plant Strage scape 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual					
 Storage areas Co-located equipment Isolation requirements Potential for flash flooding if operating adjacent to waterways Operating in known areas of weeds, pathogens or contamination Operating in sensitive 					Site specific risk assessment must be undertaken by client to detemine controls, PPE & exclusion zones.					
environments requiring protection from offsite weeds/pathogens or spills										



Potential Hazards		Haza		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	Ν	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
 30. Can CHEMICALS create a hazard? Leaking from plant Splashing Explosion PPE considerations Spill kit considerations 	Y			Potential Hazard	Please refer to Hazard Evaluation & Safety Precautions (attached) or Pages 5-7 of the Operator Manual Site/liquid specific risk assessment must be undertaken by client to detemine controls, PPE & exclusion zones.					
 31. Operator TRAINING / QUALIFICATIONS? Training requirements Qualification requirements Competency assessments Documentation Operator's manual Equipment experience Product knowledge 	Y				All operators must completely read and understand the Operator Manual prior to operating plant. Undertake a Job Safety and Environmental Analysis before use of plant, and use to determine that the relevant safety procedures are in place before commencing work.					



Potential Hazards	Hazard		rd	Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Y	Ν	N/ A	Describe Hazara	Controlo		on Plant	Level	By: (Name and Date)	(Name and Date)
32. Are there <u>ANY OTHER</u> potential hazards generated by or during the use of this item of plant and/or any attachments?	Y			Plant Failure	Pre – Operational Inspection	D	DAILY - Operators must complete Start-up checklist Operation checklist Parking Checklist	E		

ALL OPERATORS OF THE PLANT OR EQUIPMENT MUST BE BRIEFED ON THE PLANT HAZARD ASSESSMENT (PHA) PRIOR TO FIRST TIME USE.

ANY RELEVANT CONDITIONS WHICH MAY IMPACT ON THE OPERATION OF THIS ITEM OF PLANT OR EQUIPMENT MUST BE TRANSFERRED TO THE AMS/TRA.



Equipment Type:	Chipper	Serial/Asset No.				
Make:	Red Roo	Model:	C100			
Test by (print):	Leigh Evans	Date:	25/8/2	25/8/20		
Signature:						
Sound Level Meter U	Jnit Used:					
Manufactures speci	fied noise level:		>110 dBA			
Background level:			dBA			
Results – Operator's		>1	>110 dBA High			
(Equipment Operation	ng)	8<	30 dBA	Low Idle		
must be worn at all		nnel) is over 80 dB(A) opy when the unit is loss.				
Noise level at opera must be worn at all t comply may result in Results – Bystander	times within the canon n hearing damage or Position:	opy when the unit is	running. F			
Noise level at opera must be worn at all t comply may result in Results – Bystander	times within the canon n hearing damage or Position:	opy when the unit is	running. F	ailure to		
Noise level at operat must be worn at all t comply may result in Results – Bystander At 7 metres from sic	times within the canon n hearing damage or Position:	opy when the unit is	running. F	ailure to		
Noise level at opera must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front	times within the canon n hearing damage or Position:	opy when the unit is	running. F	dBA		
Noise level at opera must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front Rear	times within the canon n hearing damage or Position:	opy when the unit is	running. F	dBA dBA		
Noise level at opera must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front Rear Left	times within the canon n hearing damage or Position:	opy when the unit is	running. F	dBA dBA		
Noise level at opera must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front Rear Left Right	times within the canon n hearing damage or Position:	opy when the unit is	running. F			

LIGHTING REPORT				
Test by (print):		Date:		
Signature:				
Lux Meter used:				
Results – Operator's station				
At controls				Lux
At emergency control				Lux
In front/over task				Lux
Left side task				Lux
Right side task				Lux
Comments:				
Results – Surroundings:				
Clearly seen by others?		🗆 Yes	□ No	
Decrease lighting in walkways	🗆 Yes	🗆 No		
Decrease lighting to other wor	🗆 Yes	□ No		
Comments:				



COMMENTS:		