STATIC Plant Hazard & Risk Assessment

Assessment Number: ROLLCC1200	**Assessment Date:** 15/8/2023
Plant Type: 2.7T Twin Drum Roller **Plant Make:** Dynanapc **Plant Model:** CC1200 VI **Asset/Fleet/Rego No**: 1NT6YT **Plant Serial No**. VIN 10000395HJA022493	**Assessment Facilitated by:** Leigh Evans (Admin/Accounts Manager) **Assessment Participants**: Chris Feldbauer (Director)
Plant Owner Name: Northern Hire Group	**Follow up Assessment** (See below for Revision No.)
Site/Job Specific Assessment Required? YES When completing the checklist, consider the hazards that may affect: • plant operators • anyone working, or in the vicinity of, the plant • others who could be affected, such as visitors, pedestrians, contractors, etc.	

Is the plant designed to perform the task?	Yes	~~No~~	
Has the plant been modified from the original condition?	~~Yes~~	No	
Is the plant in good working condition and free of weeds & mud?	Yes	~~No~~	
All identified action items closed out/addressed (plant checks)?	Yes	~~No~~	
Is the plant safe to operate? (On completion of PHA and action closure)	Yes	~~No~~	

Date: 15/8/23 **Signature:**

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This document has been developed as a guide to identify hazards on plant only.

This Risk Assessment has been conducted to the guidelines as detailed in the Worksafe booklet "Plant Hazard Checklist"

Workplace hazards <u>have not</u> been identified.

Job safety analysis (J.S.A) - Safe Work Method Statement (SWMS) is required to identify workplace hazards.

Operators must take into account Job Safety Analysis when operating mobile plant.

This assessment is conducted under a static condition as per Occupational Health & Safety Regulations Victoria 2017. A site specific assessment should be conducted at each change of location. Refer to Plant Regulations/National Standards for Plant (NOHSC).

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 the user wishes to tolerate risks / opportunities of that type

	A	B	C	D	E
1	H	H	H	M	M
2	H	H	M	M	L
3	H	M	M	L	L
4	M	M	L	L	L
5	M	L	L	L	L

Hazard Risk Assessment

H	High Risk INTOLERABLE (Significant & Urgent Action(s) required - Immediate Action)
M	Medium Risk (Reduce risk to ALARP - As Low As Reasonably Practicable)
L	Low Risk -Tolerable (monitor and manage risk)

Likelihood of Occurrence
1. Expected to occur (once per week)
2. Common (once per month)
3. Rarely (once in < 20 years)
5. Highly unlikely (once in > 20 years)

Severity of Result
A. Fatality
B. Permanent Disability
C. Lost Time Injury (LTI)
D. Medical Treatment/Damage
E. First Aid Injury

Disclaimer:

This Plant Hazard & Risk Assessment does not eliminate the Owner/Operator responsibility to maintain the Mobile Plant as per OH & S Regulations Victoria 2017/National Standards for Plant (NOHSC).

This assessment provides information that is based on an inspection that was made on the date noted on the assessment cover sheet. If any addition, alteration or modification has been made to this mobile item plant subsequent to that date, it may not confirm to a satisfactory level of acceptance.

All hazards identified in this document must be rectified within 21 days of date listed on this form.

If faults are not rectified in 21 days, this document becomes null and void.

I acknowledge receipt of the complete Assessment for the Plant item detailed on the cover sheet.

Supervisor/Operator Name: ……

Supervisor/Operator Signature:……

Date: / /

<u>Further information</u>
Contact the WorkSafe Victoria Advisory Service on 1800 136 089 or go to worksafe.vic.gov.au to download:
- Occupational Health and Safety Act 2004
- Occupational Health and Safety Regulations 2017
- Plant Compliance Code
- Hazardous Manual Handling Compliance Code
- Noise Compliance Code
- Hazardous Substances Compliance Code
- Code of Practice for Storage & Handling of Dangerous Goods

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Potential Hazards	Hazard			Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required on Plant	Final Risk Level	New or Additional Controls Action By: (Name and Date)	Action Verified as Complete: (Name and Date)
	Y	N	N/A							
1. 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 injury or damage to property from incorrect use	Refer to Safety Precautions, operating instructions and load specifications. A site specific risk assessment should be conducted to determine controls	L				
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			Site Specific	A site specific risk assessment should be conducted to determine controls Ensure all warning decals are in place and legible	L				
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			Injury from contact with moving parts	Refer to safety instructions and Operator Manual. Ensure all guards are in place. Keep body parts, loose clothing, hair, jewellry, etc away from moving parts	M				

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	Y	N	N/A							
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			Injury from uncontrolled or unexpected movement of plant or load	Establish exclusion zone around work area. Ensure all warning decals are in place and legible. Perform daily pre-operation checks to ensure all safety mechanisms are free from damage and fully operational. Ensure plant is fully braked and/or wheel chocked and engine off before leaving unattended.	M				

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	Y	N	N/A							
5. Can anyone be CUT, STABBED or PUNCTURED? ▪ Flying objects ▪ Moving parts ▪ Pinch points ▪ Sharp edges ▪ Isolation devices ▪ Warning decals ▪ Guarding	Y			Injury from ejected materials from work piece/area	Refer to safety precautions Establish exclusion zone around work area Ensure use of correct PPE	L				
6. Can SHEARING occur? ▪ Between two moving and rotating parts ▪ Between fixed and moving parts ▪ Warning decals ▪ Guarding	Y			Injury caused by entrapment between moving parts	Refer to Safety Precausitons and Operator Manual. Ensure all warning decals are in place and legible Keep body parts, loose clothing, hair, jewellry away from moving parts	M				
7. Can ABRASION, TEARING or STRETCHING occur? ▪ Continuous contact with moving parts ▪ Warning decals ▪ Guarding ▪ Pulling/pushing	Y			Injury from contact with moving parts	Refer to Safety Precausitons and Operator Manual. Ensure use of correct PPE Keep body parts, loose clothing, hair, jewellry away from moving parts	L				

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	Y	N	N/A							
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*			Injury from contact with moving plant or parts	Establish exclusion zone around work area. Ensure all warning decals are in place and legible. Perform daily pre-operation checks to ensure all safety mechanisms are free from damage and fully operational. Ensure plant is fully braked and engine off before leaving unattended. Ensure use of correct PPE Keep body parts, loose clothing, hair, jewellry away from moving parts	L				

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	Y	N	N/A							
9. Can a hazardous PRESSURE be produced? ▪ Hydraulic hoses ▪ Radiator ▪ Come into contact with fluids under high pressure	Y			Potential injury from contact with fluids	Ensure all waring decals are in place. Perform daily pre-operation checks Ensure pipe clamps are fitted to all hoses/pipes Avoid contact with heated fluids or fluids under pressure Allow plant to fully cool before refuelling or checking fluid levels	M				

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	Y	N	N/A							
10. Can an ELECTRICAL hazard be created? ▪ Lack of insulation ▪ Contact with electrical conductors ▪ Poor earthing ▪ Water near equipment ▪ Lack of isolation ▪ Warning decals	Y			Injury from electrocution	Ensure all overhead and underground electrical services are identified and clearly marked. Ensure electrical wire/overhead wires/obstruction decals fitted Ensure battery isolator fitted. Use a spotter when working close to electrical services. Keep all electrical components dry and away from water/water sources.	M				
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			Injury from battery explosion, or ignition of flammable fluids	Ensure all warning decals and guards are in place. Perform daily pre-operation checks	L				

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12. Can anyone using or near the plant SLIP, TRIP or FALL? ▪ Uneven surface ▪ Fall from a height ▪ Weather conditions ▪ Slippery surfaces	Y			Potential hazard (site specific)	A site specific risk assessment must be undertaken by client prior to operating.	L				
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	Y			Injury from exposure to vibration, poor posture and/or awkward positions	Ensure operators seat is in comfortable position and all control levers and pedals are easily identifiable and within comfortable reach Operators to take regular rest breaks	L				
14. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant? ▪ 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	Y			Potential hazard	Ensure all controls are easily identified and readable Ensure 3 points of contact during access and egress	L				

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15. Are there specific requirements for ISOLATION of energy sources? ▪ Hydraulic pressure ▪ Compressed gases ▪ Electrical feeds/capacitors ▪ Motive power systems ▪ Suspended loads ▪ Operation by two or more persons	Y			Injury from contact with energy sources	Ensure all operators are familiar with safety precautions associated with energy sources Ensure battery isolator fitted	L				
16. Can unplanned LOSS of POWER create a hazard? ▪ Engine shutdown ▪ Loss of electrical supply ▪ Loss of steering systems ▪ Ability to apply brakes and stop ▪ Ability to lower suspended loads	Y			Potential Hazard	Perform daily pre-operation checks and ensure plant is maintained in accordance with the manufacturers recommendd schedules	**L**				
17. Can anyone be SUFFOCATED? ▪ Lack of oxygen ▪ Contaminated atmosphere ▪ Confined spaces ▪ Spaces where air flow is inadequate		N								
18. Does operation of the plant cause extreme TEMPERATURE changes? ▪ Fire ▪ Burns through conduction ▪ Convection ▪ Cryogenic burns ▪ Operation in extreme heat or cold		N								

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19. Can a FIRE occur? ▪ Friction ▪ Ingress of materials/fluids ▪ Build-up of materials/lubricants ▪ Fuels ▪ Fire extinguisher		N								
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 points	Y			Potential injury from exposure to extreme weather conditions	Ensure adequate ventilation and/or air conditioning. Observe local weather conditions and warnings	L				
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			Injury from exposure to vibration	Ensure correct use of PPE Operators to take regular rest breaks	**L**				
22. Can the plant emit toxic FUMES or VAPOURS? ▪ Exhaust fumes ▪ Chemicals ▪ Haz chemicals/DG's	Y			Injury from exposure to exhaust fumes, fuels, oils, and/or cleaning chemicals	Use in a well ventilated area only. Esure correct use of PPE	L				

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	Y	N	N/A							
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			Injury from prolonged use	Ensure operators use appropriate PPE, including adequate hearing protection. A site specific assessment is required to determine noice impacts on surrounding community.	**L**				
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		Site specific assessment required					
25. Does the plant emit RADIATION? ▪ Eg X-rays ▪ EMR ▪ Laser		N								
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 injury from exposure to dusts. Potential impact on local flora and fauna	Site specific assessment required	L				

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	Y	N	N/A							
27. Can the plant become UNSTABLE during operation? ▪ Working on uneven / unstable ground ▪ Shifting load ▪ Lack of plant support ▪ Outriggers	Y			Injury to persons or damage to property	All operators must be experienced in the correct use of the machinery, including its specifications and limitations. A site specific assessment is required to determine risk and controls	M				
28. Could LOSS of LOAD occur? ▪ Failure of ropes/slings ▪ Overloading ▪ Entanglement in surrounding structures ▪ Maintenance requirements		N								
29. Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard? ▪ Power lines ▪ Low ceiling ▪ Other plant ▪ 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 environments requiring protection from offsite weeds/pathogens or spills	Y			Potential Hazard – site specific	A site specific risk assessment must be undertaken by client to detemine controls, PPE & exclusion zones.	L				

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	Y	N	N/A							
30. Can CHEMICALS create a hazard? ▪ Leaking from plant ▪ Splashing ▪ Explosion ▪ PPE considerations ▪ Spill kit considerations	Y			Hazard from fuels and/or cleaning chemicals	Ensure correct use of PPE. Observe local regulations in regard to water run-off/wastewater.	L				
31. Operator TRAINING / QUALIFICATIONS? ▪ Training requirements ▪ Qualification requirements ▪ Competency assessments ▪ Documentation ▪ Operator's manual ▪ Equipment experience ▪ Product knowledge	Y			Potential injury to persons or damage to property from incorrect usage	All operators must have read and understood the specifications & limitations, pre-start requirements, operating procedures, safety information and risk assessment prior to commencing any works using this machinery	L				
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*	L	**DAILY** - Operators must complete Start-up checklist Operation checklist Parking Checklist			

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.

STATIC Plant Hazard & Risk Assessment

NOISE REPORT			
Equipment Type:	2.7T Twin Drum Roller	Serial/Asset No.	VIN100000395HJA022493
Make:	Dynapac	Model:	CC1200 VI
Test by (print):	Leigh Evans	Date:	15/8/23
Signature:			
Sound Level Meter Unit Used:			
Manufactures specified noise level:			102 dBA
Background level:			86 dBA
Results – Operator's Station (Equipment Operating)		102 dBA	High Idle
		102 dBA	Low Idle
Comments:			
Results – Bystander Position: At 7 metres from side of equipment – Equipment Operating (High Idle)			
Front			dBA
Rear			dBA
Left			dBA
Right			dBA
Comments:			

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 workstations?	☐ Yes	☐ No	
Comments:			

This Hazard Identification and Risk Assessment has been prepared based on several key assumptions:

1. *That all examples of the plant currently in service are as per their original specification.*
2. *That all examples of the plant have not been modified in any way without the prior written consent of the manufacturer or owner.*
3. *That all examples of the plant are operated and maintained in accordance with the Manufacturer's Instructions and with all applicable statutory requirements.*

Northern Hire Group have made every attempt to identify all reasonable foreseeable operating circumstances in preparing this assessment, however no guarantee as to the completeness of this Assessment is provided or implied.

You should always check any applicable legislation and make your own judgement about what action you may need to take to ensure you have complied with the law.

It is the responsibility of the Employer, Contractor, Operator(s) to assess and identify any site or operation specific hazard associated with the use of this equipment specifically applicable to the task to be carried out and to where the equipment is to be used or located. They must assess the risk potential for each of the identified hazards and ensure that all reasonably practicable steps are undertaken to ensure those risks are effectively controlled.

All operators must be trained and competent in the use of this plant and hold appropriate qualifications as required by applicable regulatory requirements.

Operators of the plant to which this Risk Assessment refers must read and understand the instructions for Use and Warnings contained in the Operator Manual, or supplied with this Assessment, prior to use.

All daily Pre-Start checks, Routine and Periodic Inspections, Maintenance and Repairs to this plant must be carried out in accordance with the requirements of applicable Australian Standards.

NOTES: