

STATIC Plant Hazard Assessment Form



Assessment Number: 2	Assessment Date: 24/1/2023
Plant Type: Skid Steer Loader Plant Make: Wacker Neuson Plant Model: 501s Asset/Fleet/Rego No: Y02 528 Plant Serial No. WNCS0101APAL00360	Assessment Facilitated by: Leigh Evans (Admin/Accounts Manager) Assessment Participants: Chris Feldbauer (Director)
Plant Owner Name: Northern Hire Group	Initial Assessment ☐ Follow up Assessment (See below) X
Follow up based on change to: Use of plant ☐ System of work ☐ Plant Environment ☐ New or additional information X Plant through modification ☐	

The list of hazards and controls contained in this assessment is not exhaustive. The user accepts that they have made their own determination that the plant/equipment is suitable for the proposed works and conditions, and will only used in a manner for which it is intended. A job specific risk assessment is advised to determine site specific hazards and controls.

Is the plant designed to perform the task? Yes X No ☐

Has the plant been modified from the original condition? Yes ☐ No X

Is the plant in good working condition and free of weeds & mud? Yes X No ☐

All identified action items closed out/addressed (plant checks)? Yes X No ☐

Is the plant safe to operate? (On completion of PHA and action closure) Yes X No ☐

Date: 24/1/23

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 have not 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

Disclaimer:

This Mobile 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 Mobile Plant item detailed on the cover sheet.

Supervisor/Operator Name:

Supervisor/Operator Signature:.....

Date: / /

	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

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Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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 Hazard	Please refer to Safety Information in Operator Manual	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			Potential Hazard	Please refer to Safety Information in Operator Manual	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 entanglement	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction Keep loose clothing, hair, body parts, jewellery away from moving parts.			

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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 contact with moving equipment	Please refer to Safety Information in Operator Manual	M	To be addressed by site induction Exclusion zone to be established prior to commencing operation			

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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 contact	Please refer to Safety Information in Operator Manual	M	To be addressed by site induction Exclusion zone to be established prior to commencing operation			
6. Can SHEARING occur? - Between two moving and rotating parts - Between fixed and moving parts - Warning decals - Guarding	Y			Injury from contact	Please refer to Safety Information in Operator Manual	M	To be addressed by site induction Exclusion zone to be established prior to commencing operation			
7. Can ABRASION, TEARING or STRETCHING occur? - Continuous contact with moving parts - Warning decals - Guarding - Pulling/pushing	Y			Injury from contact	Please refer to Safety Information in Operator Manual	M	To be addressed by site induction Exclusion zone to be established prior to commencing operation			
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	Please refer to Safety Information in Operator Manual	M	To be addressed by site induction Exclusion zone to be established prior to commencing operation			

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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			Injury from contact	Please refer to Safety Information in Operator Manual	M	To be addressed by site induction Exclusion zone to be established prior to commencing operation			
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			Potential hazard	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Only qualified & trained persons must complete task and SWMS must be completed. Supervisor/Operator to establish presence of underground and/or overhead services and use spotter where applicable. Exclusion zone to be established prior to commencing operation			
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 Safety Information in Operator Manual	M	To be addressed by site induction. Exclusion zone to be established prior to commencing operation			

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	Y	N	N/A							
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	Please refer to Safety Information in Operator Manual	L	To be addressed by handrails, guardrails or SWMS. Provisions to be provided to prevent falls from height.			
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			Potential Hazard	Please refer to Safety Information in Operator Manual	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	Please refer to Safety Information in Operator Manual	L				

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	Y	N	N/A							
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			Potential Hazard	Please refer to Safety Information in Operator Manual	L	Only qualified & trained persons to complete task. SWMS must be completed			
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	Please refer to Safety Information in Operator Manual	L				
17. Can anyone be SUFFOCATED? - Lack of oxygen - Contaminated atmosphere - Confined spaces - Spaces where air flow is inadequate	Y			Potential Hazard	Please refer to Safety Information in Operator Manual	L	Carry water and wear correct PPE			
18. Does operation of the plant cause extreme TEMPERATURE changes? - Fire - Burns through conduction - Convection - Cryogenic burns - Operation in extreme heat or cold	Y			Potential Hazard – site specific	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Observe local weather conditions and Fire Danger Ratings/Warnings			

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	Y	N	N/A							
19. Can a FIRE occur? - Friction - Ingress of materials/fluids - Build-up of materials/lubricants - Fuels - Fire extinguisher	Y			Potential Hazard	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Observe local weather conditions and Fire Danger Ratings/Warnings			
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 Hazard	Please refer to Safety Information in Operator Manual	L	Observe local weather conditions and Fire Danger Ratings/Warnings			
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 Safety Information in Operator Manual	L	To be addressed by site induction. Operator to implement procedures to reduce prolonged exposure			
22. Can the plant emit toxic FUMES or VAPOURS? - Exhaust fumes - Chemicals - Haz chemicals/DG's	Y			Potential Hazard	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Establish exclusion zone around work site			

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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			Potential Hazard – site specific	Please refer to Safety Information in Operator Manual	L	JSEA/SWMS to be in place for noise levels >85dB Site specific assessment required.			
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	Y			Potential Hazard – site specific	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Site specific assessment required.			
25. 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 – site specific	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Site specific assessment required. Check local council requirements			
26. Can the plant become UNSTABLE during operation? ▪ Working on uneven / unstable ground ▪ Shifting load ▪ Lack of plant support ▪ Outriggers	Y			Potential Hazard – site specific	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Site specific assessment required.			

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	Y	N	N/A							
28. Could LOSS of LOAD occur? - Failure of ropes/slings - Overloading - Entanglement in surrounding structures - Maintenance requirements	Y			Potential Hazard- site specific	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. To be addressed by daily inspection			
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	Please refer to Safety Information in Operator Manual	L	To be addressed by site induction. Only qualified & trained persons must complete task and SWMS must be completed. Supervisor/Operator to establish presence of underground and/or overhead services Use clear markers at ground level to show location of power lines, underground utilities and use spotter where applicable. Exclusion zone to be established prior to commencing operation			
30. Can CHEMICALS create a hazard? - Leaking from plant - Splashing - Explosion - PPE considerations - Spill kit considerations	Y			Potential Hazard	Please refer to Safety Information in Operator Manual	M	To be addressed by site induction.			

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	Y	N	N/A							
31. Operator TRAINING / QUALIFICATIONS? - Training requirements - Qualification requirements - Competency assessments - Documentation - Operator's manual - Equipment experience - Product knowledge	Y			Injury, death, damage to persons & property by persons unfamiliar with the safe operation of this equipment.	All operators are to possess the relevant qualifications/acc reditation (if any) and/or be trained in the safe use of this equipment.	L	Customer/Operator to implement 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			
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.

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NOISE REPORT			
Equipment Type:	Skid Steer Loader	Serial/Asset No.	Y02 528
Make:	Wacker Neuson	Model:	501s
Test by (print):	Leigh Evans	Date:	24/1/2023
Signature:			
Sound Level Meter Unit Used:			
Manufactures specified noise level:	<105 dBA		
Background level:	dBA		
Results – Operator’s Station (Equipment Operating)	< 105 dBA	High Idle	
	85 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:			

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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.

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:

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All of the above items have been addressed in the Static Plant Hazard Assessment and have been controlled by the following:

The Hierarchy of Hazard Control

1. **Elimination** – This is a permanent solution and should be attempted in the first place.
Not required for this item of plant
2. **Substitution** – This includes plant which present a lower level of risk.
Not required for this item of plant
3. **Isolation** – Separate the person from the plant (eg. operating in an enclosed area).
Not required for this item of plant
4. **Engineering** – involves changing the structure (eg. guarding).
Not required for this item of plant
5. **Administrative** – provide a system that reduces the possibility of a person being exposed to the hazard.
Addressed by placing safety decals in areas of low risk on this item of plant.
6. **Personal Protective Equipment (PPE)** – is generally used as a short term control measure.
Other than general PPE that is required by all worksites, no specific PPE is required for the operator of this item of plant.

Other Controls:

- L Areas of low risk** - decals have been placed to warn operators and workers.
- M Areas of medium risk** – comments have been made and are to be addressed by the operator.
- H Areas of high risk** – the machine will be tagged 'Do Not Use', keys removed and reported to owner.