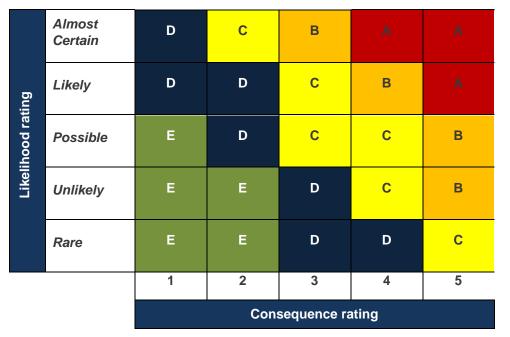


Assessment Number: 1		Assessment Date: 16/2/21
Plant Type:BBA BA100HATS 100mm Diesel PumpPlant Make:SelwoodPlant Model:D150R		Assessment Facilitated by: Leigh Evans (Admin/Accounts Manager)
Asset/Fleet/Rego No: PUMP D150 Plant Serial No. 051802155		Assessment Participants: Lachlan Horton (Yard Manager)
Plant Owner Name: Northern Hire Group		Initial Assessment Follow up Assessment (See below)
Follow up based on change to:		
Use of plant 🗌 System of work 🗌 Plant	Environment	t New or additional information Plant through modification
Is the plant designed to perform the task?	Yes X N	
Has the plant been modified from the original condition?	Yes 🗌 🛛 N	o X
Is the plant in good working condition and free of weeds & mud?	Yes X N	
All identified action items closed out/addressed (plant checks)?	Yes X N	
Is the plant safe to operate? (On completion of PHA and action closure)	Yes X N	
		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.
A	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



Potential Hazards	I	Hazaı		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)
1. Are there any specific warnings or conditions (manufacturers or other) relating to potential hazards from the operation of the item of plant?	Y			Potential Hazard	Please refer to Safety Precautions Page 2 of the Operator Manual					
 Refer to technical or operating manuals, SOPs, safe use instructions List any relevant safety warning hazards & controls 										
 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 Precautions (attached) or Page 2 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 Safety Precautions (attached) or Page 2 of the Operator Manual					



Potential Hazards		Haza		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action	Action Verified as Complete:
	Y	Ν	N/ A				on Plant	Levei	By: (Name and Date)	(Name and 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 Safety Precautions (attached) or Page 2 of the Operator Manual					



Potential Hazards	I	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)
 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 Safety Precautions (attached) or Page 2 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 Safety Precautions (attached) or Page 2 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 Safety Precautions (attached) or Page 2 of the Operator Manual					
 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			Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					



Potential Hazards	ŀ	lazar		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)
 9. Can a hazardous PRESSURE be produced? Hydraulic hoses Radiator Come into contact with fluids under high pressure 	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
 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 Precautions (attached) or Page 2 of the Operator Manual.					
 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 Precautions (attached) or Page 2 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	Site risk assessment must be undertaken by client prior to operating plant					



Potential Hazards	ŀ	lazar		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				on Plant	Level	By: (Name and Date)	(Name and Date)
 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 	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
 Access for maintenance Routine inspections and adjustments 										
14. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant?		Ν								
 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 										



Potential Hazards	ŀ	Hazaı	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		Controls		on Plant	Level	By: (Name and Date)	(Name and Date)
 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 Precautions (attached) or Page 2 of the Operator Manual					
 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 	Ŷ			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
 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 		Ν								



Potential Hazards	I	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)
 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 Precautions (attached) or Page 2 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 points 	Y			Potential Hazard	Please refer to Safety Precautions (attached) or Page 2 of the Operator Manual					
 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 Precautions (attached) or Page 2 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					



Potential Hazards	ł	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)
 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 Safety Precautions (attached) or Page 2 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							
 25. Does the plant emit RADIATION? Eg X-rays EMR Laser 		Ν								



Potential Hazards	ŀ	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	Doombornatara	oontroid		on Plant	Level	By: (Name and Date)	(Name and Date)
 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	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					
 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 Safety Precautions (attached) or Page 2 of the Operator Manual Site risk assessment must be undertaken by client onsite to determine PPE and controls					
 28. Could LOSS of LOAD occur? Failure of ropes/slings Overloading Entanglement in surrounding structures Maintenance requirements 	Y			Potential Hazard	Refer to Operator manual for pre- operational checks, maintenance & load capacity					

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Potential Hazards	ł	Hazaı		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		(Name and Date)	Date)
 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 risk assessment must be undertaken by client to detemine controls, PPE & exclusion zones.					
 30. Can CHEMICALS create a hazard? Leaking from plant Splashing Explosion PPE considerations Spill kit considerations 	Y			Potential Hazard	Site/liquid specific risk assessment must be undertaken by client to detemine controls, PPE & exclusion zones.					



Potential Hazards	Hazard			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	Levei	(Name and Date)	Date)
 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.					
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.



NOISE REPORT Equipment Type:	100mm Diesel	Serial/Asset No.	12-28	Q1
Equipment Type.	Pump	Genal/Asset No.	12-2881	
Make:	BBA	Model:	Model: BA100	
Test by (print):	Leigh Evans	Date:	16/2/2	1
Signature:				
Sound Level Meter U	Init Used:			
Manufactures specif	ied noise level:			>80 dBA
Background level:				dBA
Results – Operator's		>80 dBA High Idle		
(Equipment Operatin	ıg)	>80 dBA Low		
must be worn at all t	or position (Start Pan imes within the canop n hearing damage or I	by when the unit is ru		
Noise level at operat must be worn at all t	imes within the canop hearing damage or l	by when the unit is ru		
Noise level at operat must be worn at all t comply may result in Results – Bystander	imes within the canop hearing damage or l	by when the unit is ru	nning. F	
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Noise level at operat must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front	imes within the canop hearing damage or l Position:	by when the unit is ru	nning. F	ailure to dBA dBA
Noise level at operat must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front Rear	imes within the canop hearing damage or l Position:	by when the unit is ru	nning. F	dBA dBA
Noise level at operat must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front Rear Left	imes within the canop hearing damage or l Position:	by when the unit is ru	nning. F	ailure to
Noise level at operat must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front Rear Left Right	imes within the canop hearing damage or l Position:	by when the unit is ru	nning. F	dBA dBA
Noise level at operat must be worn at all t comply may result in Results – Bystander At 7 metres from sid Front Rear Left Right	imes within the canop hearing damage or l Position:	by when the unit is ru	nning. F	dBA dBA

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		
Clearly seen by others? Decrease lighting in walkways?		□ Yes	□ No	
Clearly seen by others? Decrease lighting in walkways? Decrease lighting to other worksta	ttions?			
Clearly seen by others? Decrease lighting in walkways?	tions?	□ Yes	□ No	
Clearly seen by others? Decrease lighting in walkways? Decrease lighting to other worksta	itions?	□ Yes	□ No	
Clearly seen by others? Decrease lighting in walkways? Decrease lighting to other worksta	ntions?	□ Yes	□ No	
Clearly seen by others? Decrease lighting in walkways? Decrease lighting to other worksta	itions?	□ Yes	□ No	



COMMENTS:				
Use DIESEL fuel only.				
Connect Suction Hose. Use a reinforced wall or wire braided hose to prevent suction collapse. Since the pump self-priming time is directly proportional to hose length, a short hose is recommended. Always use a strainer with the suction hose as this will prevent large pieces of gravel or debris being sucked into the pump which may cause serious damage to the impeller and pump casing.				
Connect Delivery Hose When using a fabric hose, always use a hose band to prevent the hose disconnecting under high pressure.				
Check Priming Water It is recommended that the water chamber of the pump casing be primed full of water before operating.				
Always ensure end of suction hose is fully submerged in water before starting engine.				