

Assessment Number: 1	Assessment Date: 9/9/20
Plant Type: Submersible Pump Plant Make: Various Plant Model:	Assessment Facilitated by: Leigh Evans (Admin/Accounts Manager)
Asset/Fleet/Rego No: SUBPUMP Plant Serial No. Various	Assessment Participants: Lachlan Horton (Yard Manager)
Plant Owner Name: Northern Hire Group	Initial Assessment
Follow up based on change to:	
Use of plant System of work Plant Environment	New or additional information Plant through modification
Is the plant designed to perform the task? Yes X No	
Has the plant been modified from the original condition? Yes ☐ No X	χ
Is the plant in good working condition and free of weeds & Yes X No mud?	
All identified action items closed out/addressed (plant Yes X No leacks)?	
Is the plant safe to operate? (On completion of PHA and Yes X No action closure)	
	Date: Signature:

Revision No: 1

Issue Date: 9/9/2020

Page 1 of 15



Risk / Opportunity Rating Table (see <u>Risk Management Consultation</u>
<u>Process Appendix</u> for a full description of Risk Consequence, Opportunity Consequence and Likelihood Ratings)

	Almost Certain	D	С	В	Α	A			
ting	Likely	D	D	С	В	Α			
Likelihood rating	Possible	Е	D	С	С	В			
Likeli	Unlikely	E	E	D	С	В			
	Rare	Е	Е	D	D	С			
		1	2	3	4	5			
		Consequence rating							

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

Issue Date: 9/9/2020



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

Revision No: 1 Page 3 of 15

Issue Date: 9/9/2020



Potential Hazards	Y	Haza N	N/	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)
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	N	A	Potential Hazard	Please refer to Pump Safety Precautions (attached) or the Operator Manual .		On Plant			Date)

Revision No: 1 Page 4 of 15



Potential Hazards	ı	Haza	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	N	A				on Plant	20101	(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 Pump Safety Precautions (attached) or 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 Pump Safety Precautions (attached) or 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 Pump Safety Precautions (attached) or 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			Potential Hazard	Please refer to Pump Safety Precautions (attached) or the Operator Manual					

Revision No: 1

Page 5 of 15



Potential Hazards	ı	Haza		_ Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Levei	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 Pump Safety Precautions (attached) or 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 Pump Safety Precautions (attached) or 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 Pump Safety Precautions (attached) or 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	Y			Potential Hazard	Site specific risk assessment must be undertaken by client prior to operating plant					

When printed this document is an uncontrolled version and must be checked against the IMS electronic version for validity

Issue Date: 9/9/2020

Issue Date: 9/9/2020



Potential Hazards	ı	Hazar		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk Level	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Levei	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 Access for maintenance Routine inspections and adjustments	Y			Potential Hazard	Please refer to Pump Safety Precautions (attached) or the Operator Manual					
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 										

Revision No: 1 Page 7 of 15



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	N	N/ A	2000.1001.1020.0			on Plant	Level	By: (Name and Date)	(Name and Date)
15. Are there specific requirements for ISOLATION of energy sources?	Y			Potential Hazard	Please refer to Pump Safety Precautions (attached) or the Operator Manual					
 Hydraulic pressure Compressed gases Electrical feeds/capacitors Motive power systems Suspended loads Operation by two or more persons 										
16. Can unplanned LOSS of POWER create a hazard?	Y			Potential Hazard	Please refer to Pump Safety Precautions (attached) or the					
 Engine shutdown Loss of electrical supply Loss of steering systems Ability to apply brakes and stop Ability to lower suspended loads 					Operator Manual					
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 										

Revision No: 1

Page 8 of 15



Potential Hazards	ŀ	Hazar		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Level	By: (Name and Date)	(Name and Date)
19. Can a FIRE occur?FrictionIngress of materials/fluids		Z								
 Build-up of materials/lubricants Fuels Fire extinguisher 										
20. Can certain WEATHER conditions create a hazard?	Y			Potential Hazard	Operators are instructed to obtain local weather					
 Hypothermia / extreme cold Heat stroke / extreme hot Wet conditions Electrical storms Dirt & mud on roads at egress 					conditions and warnings					
points										
21. Does VIBRATION of the plant create a hazard?	Υ			Potential Hazard	Please refer to Pump Safety Precautions					
 Plant becomes unstable Causes physical problems for the operator whilst operating Vibration of equipment 					(attached) or the Operator Manual					
 Operation could cause unacceptable vibration levels in nearby structures 										
22. Can the plant emit toxic FUMES or VAPOURS?	Y			Potential Hazard from exhaust fumes	Do not use in enclosed spaces.					
Exhaust fumesChemicalsHaz chemicals/DG's					Ensure adequate ventilation					

Revision No: 1

When printed this document is an uncontrolled version and must be checked against the IMS electronic version for validity



Page 10 of 15

Potential Hazards	ı	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	N	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 	Y			Potential hazard with prolonged use	Please refer to Pump Safety Precautions (attached) or the Operator Manual					
(including reversing beepers) 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		N								

Revision No: 1

When printed this decument is an uncontrolled version and must be checked against the IMS electronic version for validity.



Potential Hazards	ŀ	Hazar		Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				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 Pump Safety Precautions (attached) or 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					

Revision No: 1

Issue Date: 9/9/2020

Page 11 of 15



Potential Hazards	Hazard			Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Level	By: (Name and Date)	(Name and 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 determine 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 determine controls, PPE & exclusion zones.					

Revision No: 1

When printed this document is an uncontrolled version and must be checked against the IMS electronic version for validity



Potential Hazards	Hazard			Describe Hazard	Controls	Current Risk Level	New or Additional Controls Required	Final Risk	New or Additional Controls Action	Action Verified as Complete:
	Υ	N	N/ A				on Plant	Level	By: (Name and Date)	(Name and 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 ANY OTHER 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:	Submersible Pump	Serial/Asset No.	Various			
Make:	Various	Model:	Various			
Test by (print):	Leigh Evans	Date:	9/9/20			
Signature:			1			
Sound Level Meter Ur	nit Used:					
Manufactures specifie	ed noise level:	>80 dBA				
Background level:		dBA				
Results - Operator's	Station	>80 dBA High Idle				
(Equipment Operating	g)	>80 dBA Low Idle				
Comments:						
Noise level at operato must be worn at all til comply may result in						
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			Lı	ıχ
At emergency control			Lı	ıχ
In front/over task			Lı	ΙX
Left side task			Lı	ΙX
Right side task			Lu	ΙX
Comments:				
Results – Surroundings:				
Clearly seen by others?		□ Yes	□ No	
Decrease lighting in walkways	□ Yes	□ No		
Decrease lighting to other wor	□ Yes	□ No		
Comments:				



COMMENTS:	