

RISK MANAGEMENT REPORT

TYPE	Rollers, Tandem Vibratory
MAKE	Sakai
MODEL	SW502
PRICING GROUP NUMBER	272A

Report Number	15313 20190830-1717
Date	30-Aug-2019
Created By	Nic Mclennan
Assessor	Nic Mclennan
Assist. Assessor(s)	
Completed By	Nic Mclennan
Owner	AB Equipment Limited
Assessment Purpose	Hire
State	NZ



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SECTION 1 IMPORTANT INFORMATION

Contains information outlining the scope and any limitations applicable to this Risk Management Report

SECTION 2 MACHINE DETAILS

Contains standard machine specifications and details of any extras fitted

RISK ANALYSIS, RISK EVALUATION & RISK TREATMENT

SECTION 3

Contains details of the technique used to calculate risk ratings

Contains details of the technique used to calculate risk ratings, time frame and risk treatments. Please refer to this information when reviewing and interpreting the information in section 4 & 5

RISK TREATMENTS REQUIRED

Contains detailed information regarding the risk treatments to be implemented including hazard, risk rating, time frame, relevant standards & legislative references

RISK TREATMENTS IN PLACE

Contains detailed information regarding the risk treatments in place including hazard, risk rating, relevant standards & legislative references

SECTION 6 IMAGES AND NOTES

Contains images & any relevant information entered by the assessor



SECTION 4

SECTION 5



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SECTION 1 IMPORTANT INFORMATION

This report generated by Plant Assessor™ © Online Safety Systems on Friday, 30 Aug 2019 7:58 PM

This report pertains to this item of plant as it appeared on the day of inspection.

It is the responsibility of the hirer to conform with the instructions and information contained within this report. Any change in condition of this item of plant should be reported to the hire company immediately.

Any information relating to the standard features have been supplied via the manufacturer and should be used as a guide only until verified.

For further information regarding this report contact Online Safety Systems on 1300 72 88 52

SECTION 2 MACHINE DETAILS

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	Manufacturers specified noise level dBA	
- NOISE TEST RESULTS	2. Ambient noise level dBA	
	Noise level - Operator position (high idle) dBA	
	4. Noise level - Operator position (low idle) dBA	
- NOISE TEST RESULTS	5. Noise level LHS dBA @ m (high idle)	
	6. Noise level Front dBA @ m (high idle)	
	7. Noise level RHS dBA @ m (high idle)	
	8. Noise level Rear dBA @ m (high idle)	
BODY TYPE	Articulated/Rigid	Articulated
BODTTIFE	Articulation, either side (deg)	
BRAKES	Service Braking System -	Hydrostatic dynamic brake
DIVARLO	Gervice Braking Gystem -	through drive system / FNR level
CAPACITIES	Fuel Tank Capacity (Litres)	50
CAFACITIES	Water sprinkler tank capacity (Litres)	310
	Height (mm)	2565mm with ROPs
	Length (mm)	3,100mm
DIMENSIONS/WEIGHTS	Operating weight (kg)	4,300kg
DIMENSIONS/WEIGHTS	Static weight on drums, front/rear (kg)	2,080/2,220kg
	Turning circle diameter (mm)	4400mm
	Width (mm)	1,470mm
DRIVES	Drive: single drum/double drum	Double drum
	Drum widths front/rear (mm)	1,380mm
DRUMS	Split drums	
	Vibration: single drum/double drum	Double drum
	Engine Displacement (Litres)	2.197L
	Engine Hours	
ENGINE	Engine Make & Model	KUBOTA V2203
ENGINE	Engine Number	
	Net power, SAE rated (kW@rpm)	29.1KW@2,300RPM
	Number of Cylinders	4
GENERAL	Drum mats for hot mix	Scrapers
PLANT CLASSIFICATIONS	Class	Double Drum Steel Roller
FLANT CLASSIFICATIONS	Year	
TRANSMISSION	Max travel speed (km/hr)	10km/hr
IRANSIVISSIUN	Transmission Type	Hydrostatic
	Centrifugal force, high+low amplitude (kN)	34.3/26.5 KN
WORK CAPABILITIES	Gradeability w/o vib (%)	38%
WORK CAPABILITIES	Nominal amplitude, high + low (mm)	.34/.26mm
	Vibratory frequency, max+min (Hz)	55/55HZ
EXTRAS	ROPS - Two Post	ISO 3471:2008





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SECTION 3 RISK ANALYSIS / RISK EVALUATION

RIS	SK ANALYSIS					
	← CONSEQUENCE ←					
LIKELIHOOD ———		1. INSIGNIFICANT Dealt with by in house first aid	2. MINOR Treated by medical professionals, hospital out patients	3. MODERATE Significant non permanent injury overnight hospital stay	4. MAJOR Extensive permanent injury eg. Loss of fingers, extended hospital stay	5. CATASTROPHIC Death, permanent disabling injury eg. Loss of hand, quadriplegia
—— LIKELI	A. Almost certain to occur in most circumstances	MEDIUM 8	HIGH 16	HIGH 18	CRITICAL 23	CRITICAL 25
ļ	B. Likely to occur frequently	MEDIUM 7	MEDIUM 10	HIGH 17	HIGH 20	CRITICAL 24
	C. Possibly and likely to occur at sometime	LOW 3	MEDIUM 9	MEDIUM 12	HIGH 19	HIGH 22
	D. Unlikely to occur but could happen	LOW 2	LOW 5	MEDIUM 11	MEDIUM 14	HIGH 21
	E. May occur but only in rare circumstances	LOW 1	LOW 4	LOW 6	MEDIUM 13	MEDIUM 15

LUATION	CRITICAL	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below.
RISK EVA	HIGH	Act immediately to mitigate risk. Implement risk treatment(s) in accordance with the risk treatment table below. If the appropriate risk treatments are not immediately accessible establish interim risk treatment strategies. Permanent risk treatments must be implemented within one week.
		Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within one month.
	LOW	Take reasonable steps to mitigate and monitor the risk. Implement risk treatment(s) in accordance with the risk treatment table below. Permanent risk treatments must be implemented within three months.

EATMENT	Selecting the most appropriate risk treatment option involves balancing the costs and efforts of implementation against the benefits derived, with regard to legal, regulatory and other requirements. (Source AS/NZS ISO 31000:2009)			
REAT	Eliminate Eliminate the risk source.			
RISKT	Substitute Provide an alternative that is capable of performing the same task which is safer.			
	Engineering	Provide or construct a physical barrier or guard.		
	Administration Develop policies, procedures, practices and guidelines in consultation with employees to mitigate the risk. Provide training, instruction and supervision about the risk source.			
	Personal protective Provide personal protective equipment to protect the individual from the risk source.			





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SECTION 4 RISK TREATMENTS REQUIRED

This section of the report pertains to hazards created by use of this item of plant which currently do not have risk treatments in place. The risk treatments recommended in this section have been developed based on relevant Australian Standards, health & safety legislation, the hierarchy of risk treatment in accordance with the guidelines set forth in AS/NZS ISO 31000 – Risk Management and various other sources. The recommended risk treatment measures must be developed, implemented and validated as effective prior to the operation, maintenance or testing of this item of plant. Treatments applied must be dated and initialled adjacent the recommendations. All operators must read and understand the entire contents of this section prior to operating this item of plant.

HAZARD(S)	Prelim. Risk	Residual Risk	Time	Due Date	Date	Initial
HAZARD(3)	Rating	Rating	Frame	Due Date	Rectified	IIIItiai

SECTION 5 RISK TREATMENTS IN PLACE

This section of the report pertains to risk treatments currently in place on this item of plant. This section must be read in conjunction with the safety section of the manufacturers handbook. All operators must read and understand the entire contents of this section prior to operating this item of plant. These treatments or equivalent must remain in place at all times whilst this item of plant is in operation.

	HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating		
ELIVERY	CRUSHING	HIGH 22	MEDIUM 15		
DELIV	tilt tray.				
	References: Work Health & Safety Act & Regulations-	I			
	CRUSHING	HIGH 22	MEDIUM 15		
	Risk Treatments in Place: SWMS Load Restraint Ensure that all operators follow the approved SWMS/SOP when restraining this machine for References: Work Health & Safety Act & Regulations-	transport.			
	References. Work health & Salety Act & Regulations-				
NOI	NOMINATED OPERATION OPERATOR ONLY	CRITICAL 24	MEDIUM 15		
OPERAI					
(References: Work Health & Safety Act & Regulations-				
	INCORRECT OPERATION	HIGH 22	MEDIUM 15		
	Risk Treatments in Place: Operation Handbook The manufacturer's operation handbook has been supplied for this item of plant.				
	This handbook must be available at all times to all potential operators and supervisory staff. All potential operators must read and be familiar with this handbook prior to operating.				
	A complete risk assessment/Job Safety Analysis must be undertaken covering all operating processes and environments associated with this item of plant. SWMS should be produced for specific tasks associated with use of this item of plant.				



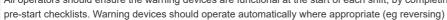


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HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: Pre-op Checklist Roller, Tandem Vibratory A pre-operational checklist is available for this Roller, Tandem Vibratory. All operators must of Tandem Vibratory.	complete this checklist prior to	o operating this Roller,
References: Work Health & Safety Act & Regulations-		
INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: SOP Roller, Tandem Vibratory Safe Operation Procedures are available for this Roller, Tandem Vibratory. The information is times whilst operating this Roller, Tandem Vibratory.	n the Safe Operation Procedu	ures must be followed at all
References: Work Health & Safety Act & Regulations-	I	I
INCORRECT OPERATION	HIGH 22	MEDIUM 15
Risk Treatments in Place: Control Labels All controls including all levers, buttons, pedals, switches etc. are clearly labelled as to their maintained in a clean and serviceable condition at all times.	purpose and method of opera	ation. These labels must be
References: AS/NZS4024.1905		
CRUSHING	HIGH 22	MEDIUM 15
Risk Treatments in Place: ROPS seat belt label This item of plant is fitted with a ROPS and has an advisory label stating that "seatbelts must This label must be present, clean and legible at all times. All operators and passengers must wear seatbelts whilst on this item of plant. References: AS2294, ISO3471	t be worn".	
POISONING, EXPLOSION, BURNS	HIGH 22	MEDIUM 15
Risk Treatments in Place: Tank ID Label The tank(s) on this item of plant have clear, legible label(s) identifying their contents, and if a These must be present, clear and legible at all times. (this includes radiator, hydraulic and preferences: Work Health & Safety Act & Regulations-	, ,	ntrols re: the contents.
FIRE	HIGH 21	MEDIUM 15
Risk Treatments in Place: Fire Extinguisher This item of plant is fitted with an approved and maintained fire extinguisher. Fire extinguisher They must be readily accessible to the operator. Regular inspections must also be carried or and AS 1851 – 1995	• •	•
(i) COLLISION, CRUSHING	MEDIUM 12	LOW 6
Risk Treatments in Place: Warning Device (horn) This item of plant is fitted with a fully functional audible warning device such as a horn. This identifiable by nearby pedestrians.	must be easily accessed by t	he operator, and easily
All operators should ensure the warning devices are functional at the start of each shift, by c	· · ·	



References: ISO7731, ISO9533



plant 🗸

MACHINE DETAILS Make Sakai Model SW502

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Pricing Group Number Assessed By Date

HAZARD(S)	Prelim. Risk Rating	Residual Risk Rating
BURNS	MEDIUM 12	MEDIUM 12

Risk Treatments in Place: Open Cabin

Dust, exhaust fumes, chemical fumes, sunstroke and sunburn pose serious risk to the operator both short and long term. The appropriate controls for all of these hazards must always be available whilst this item of plant is in operation. If these controls e.g. hats, sunscreen, dust masks etc are not available then operation of this item of plant must cease until these are made available to all operators.

References: ISO31000



Risk Treatments in Place: Recovery Point Label

This item of plant is fitted with a hazard warning label adjacent the recovery tow point which states "Recovery tow point – Read manufacturer's towing instructions before towing". Failure to do so could result in DEATH or SERIOUS INJURY.

This label must be clear and legible at all times whilst this item of plant is in operation.

References: ISO31000

COLLISION, CRUSHING

CRITICAL 24

MEDIUM 15

Risk Treatments in Place: Park Brake

This item of plant is fitted with a fully functional park (hand) brake which meets the following requirements –

- a) is separate to the service brakes
- b) has a device which maintains the brake in the on position until intentionally disengaged &
- c) requires at least two separate and distinct movements to disengage the park brake.

The park brake must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.

References: AS2958

Assessor Comments: SAHR/Panel Buttom



STRIKING, BURNS

HIGH 22

MEDIUM 15

Risk Treatments in Place: Hydraulic Hoses

This item of plant has hydraulic hoses. These hoses must be inspected each day or before each use for wear and tear. If there are visible signs of wear immediate action must be taken to control the risk arising from this wear. These inspections must be documented.

Hydraulic fluid at high pressure can penetrate the skin, never use any part of your body to check for leaks. If oil penetrates the skin seek medical advice immediately. Always use a piece of cardboard or similar to check for suspected leaks.

Hydraulic pressure can be stored and is a hazard. Before disconnection or connection of hydraulic hoses complete the following steps -

- 1. Stop engine
- 2. Keep all bystanders clear of the work area
- 3. Refer to operators manual as to methods to release pressure
- 4. Wait 5 minutes

References: AS2671, AS4024



STRIKING, ENTANGLEMENT, COLLISION, CRUSHING

HIGH 22

MEDIUM 15

Risk Treatments in Place: Neutral Start

This item of plant has neutral start control in place. It must be fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS4024.1603



CRUSHING

HIGH 22

MEDIUM 15

Risk Treatments in Place: Seat Belt

This item of plant is fitted with an operator seat belt. This seat belt must be free from damage, and permanently and sturdily attached at all times whilst this item of plant is in operation. Operators must use this seat belt at all times during operation.

References: ISO6683







Risk Treatments in Place: Seat Belt

The operator seat belt fitted to this item of plant must be fully functional and serviceable at all times. (N.B. It must not be attached to the ROPS). Operator seat belts must be worn at all times whilst this item of plant is in operation.

References: ISO6683



COLLISION, CRUSHING

HIGH 22

MEDIUM 15

Risk Treatments in Place: Reverse Movement Alarm

A reverse movement sensor alarm is fitted to this item of plant. It must be fully functional and serviceable at all times whilst this item of plant is in operation.

References: ISO7731, ISO9533



COLLISION, POOR VISIBILITY

HIGH 22

MEDIUM 15

Risk Treatments in Place: Machine Lights

This item of plant is fitted with self contained lighting. All of these lights must be fully functional and serviceable whilst this item of plant is in operation in areas of reduced light. If any of these lights stop working the operation must cease immediately and the faulty light be repaired before operation can continue in the areas of reduced light.

References: ISO20474-



CRUSHING

HIGH 22

MEDIUM 15

Risk Treatments in Place: Articulated Joint Locking Device

This item of plant is fitted with a safety locking device to the articulated joint (either a locking arm or cylinder locking devices) and clear, legible instruction labels on both sides of the articulated joint which state that either of these devices must be engaged during any maintenance to the articulated joint. These must be present, serviceable and employed at all times whilst this item of plant is in operation.

References: AS1319-, AS/NZS4024.1201



COLLISION

HIGH 22

MEDIUM 15

Risk Treatments in Place: Beacon

This item of plant is fitted with a safety beacon. This beacon must meet the following criteria at all times whilst this item of plant fitted is in operation -

- Is visible up to 200m in all directions (allowing for intermittent obstruction from the plant structure whilst the plant is in operation)
- Is fitted in the most appropriate location on machine to maximise visibility without risking continual damage

NOTE: more than one beacon may be fitted to meet these criteria.

References: ISO20474-



OPERATIONAL MALFUNCTION

HIGH 22

LOW 2

Risk Treatments in Place: Plant Modification

The plant is in original condition.



ENTRAPMENT

HIGH 21

MEDIUM 15

Risk Treatments in Place: Two Operator Exits

The operator cabin/work area on this item of plant has a minimum of two (2) possible exits. These must be functional and accessible at all times whenever the item of plant is manned, whether during operation or maintenance activities.

References: AS5327



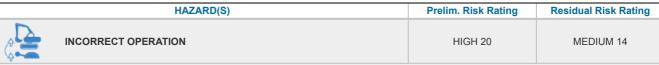


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Risk Treatments in Place: Intuitive Controls

The controls fitted to this item of plant are orientated so that the movement of the control is consistent with the action of the machine e.g. moving a control lever to the left results in the machine turning to the left. This design feature must be maintained at all times whilst this item of plant is in operation.

References: AS/NZS4024.1906



STRAINS

HIGH 19

LOW 5

Risk Treatments in Place: Controls Ergonomics

All controls including all levers, buttons, pedals, switches etc, are placed near the operator work position and are easy to reach and operate during the execution of the operator's normal duties. This applies for all persons within the 95th percentile of the normal population distribution.

References: AS/NZS4024.1901



SLIPPING, INCORRECT OPERATION

HIGH 17

I OW 6

Risk Treatments in Place: Control Levers/Pedals/Buttons

All controls including all levers, buttons, pedals, switches etc. must be kept non-slip and free from damage at all times.

References: AS/NZS4024.1901



INCORRECT OPERATION, OPERATIONAL MALFUNCTION

MEDIUM 14

MEDIUM 13

Risk Treatments in Place: Restricted Access Switches

This item of plant is fitted with a device to restrict operators. A code/key must only be given to those that have appropriate experience or training.

References: AS/NZS4024.1201



SLIPPING

MEDIUM 12

LOW 6

Risk Treatments in Place: Operator Work Area Access/Egress

Safe access and egress to the cabin/work area(s) must be maintained at all times whilst this item of plant is in operation. It must be non slip, free from damage, located at a height so as to not cause undue body stresses and strains with three points of contact available to personnel at all times.

All personnel must -

- 1. Always face the item of plant during access and egress.
- 2. Always maintain three points of contact during access and egress.
- 3. Never carry an object(s) in his/her hand(s) during access and egress.
- 4. Never jump off machine.

References: AS5327



SLIPPING, FALLING

MEDIUM 12

LOW 6

Risk Treatments in Place: Access/Egress Instruction Label

An instruction label is fitted adjacent access/egress areas to advise all personnel of the following -

- 1. Always face the item of plant during access and egress.
- 2. Always maintain three points of contact during access and egress.
- 3. Ensure the steps are clean.
- 4. Never jump off machine.

This label must be clear and legible at all times whilst this item of plant is in operation.

References: ISO31000

If you can't see my mirrors I CAN'T SEE YOU

COLLISION, POOR VISIBILITY

MEDIUM 12

MEDIUM 11

Risk Treatments in Place: Operator Mirrors

The operator rear view mirrors fitted to this item of plant must be fully functional and kept clean at all times. There must always be at least one mirror on each side to provide rear vision to the operator to avoid striking bystanders and objects.

References: ISO14401.1, AS/NZS4024.1201





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Risk Treatments in Place: Battery Cover

All batteries fitted to this item of plant are constrained to prevent displacement & fitted with a permanent sturdy cover which allows for ventilation. The constraint and cover must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201



SLIPPING, INCORRECT OPERATION

MEDIUM 9

LOW 4

Risk Treatments in Place: Operator Floor

All work area floors are non-slip and free from damage & debris.

Floor area must remain non-slip and free from damage & debris, including rubbish, tools and other items, at all times whilst this item of plant is in use.

References: AS/NZS4024.1201, ISO20474-



STRAINS

MEDIUM 9

LOW 1

Risk Treatments in Place: Operator Seat

The operator seat fitted to this item of plant must remain free from damage and tears, and be permanently and securely fitted at all times.

References: AS/NZS4024.1401, ISO20474-



BURNS

MEDIUM 9

LOW 5

Risk Treatments in Place: Exhaust

The engine exhaust on this item of plant is fitted with a guard to prevent injury to any person and control the risk of initiating a fire. It must be present and fully functional and serviceable at all times whilst this item of plant is in operation.

References: AS/NZS4024.1201



COLLISION, CRUSHING

CRITICAL 25

MEDIUM 15

Risk Treatments in Place: Brakes

The brakes fitted to this item of plant must be fully functional at all times whilst this item of plant is in operation. The brakes must be regularly inspected and tested. These inspections and tests must be documented as part of your plant safety programme.

References: AS2958



CURRENT OR PREVIOUS STRUCTURAL DAMAGE

CRITICAL 25

MEDIUM 15

Risk Treatments in Place: Structural Integrity

Regular checks for structural damage must be undertaken. Look for cracks in frames/chassis (current or repaired), bends or damage to structural components, etc.



INCORRECT OPERATION

HIGH 22

MEDIUM 15

Risk Treatments in Place: Maintenance Manual

The manufacturer's maintenance manual(s) has been supplied for this item of plant

These manual(s) must be available at all times to all users and maintenance staff of this item of plant. All users and maintenance staff must read and be familiar with these handbook(s) prior to maintaining or repairing this item of plant.

A complete risk assessment/JSEA must be undertaken covering all inspection, maintenance, servicing and transportation requirements of this piece of plant prior to use.

A full assessment of the competence of people using the book(s) must also be undertaken

References: Work Health & Safety Act & Regulations-

Assessor Comments: On Request





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HAZARD(S) Prelim. Risk Rating Residual Risk Rating HIGH 22 MEDIUM 15

Risk Treatments in Place: Hydraulic Damage

The hydraulic hoses to this item of plant are free from damage and protected against damage arising from contact with the plant structure. Ensure that hoses are free from damage and that protection is in place at all times whilst this item of plant is in operation. Inspection of the hydraulic hoses and protection system should be conducted regularly and documented as part of your plant safety programme.

References: AS2671, AS4024, ISO4413



CRUSHING

HIGH 22

MEDIUM 15

Risk Treatments in Place: ROPS Damage

The Roll Over Protective Structure (ROPS) fitted to this item of plant must remain free from damage at all times whilst this item of plant is in operation.

References: AS2294, ISO3471



OPERATIONAL MALFUNCTION

HIGH 22

I OW 2

Risk Treatments in Place: Major Fluid Leaks

This item of plant must remain free from leaks at all times whilst in operation (this includes engine, transmission, cooling system, air, fuel, drive line, wheel hubs, steering and hydraulics). Development of a major leak will require this item of plant to be stood-down until repaired. Minor leaks detected must be repaired within 1-14 days.

References: ISO31000



OPERATIONAL MALFUNCTION

HIGH 21

MEDIUM 15

Risk Treatments in Place: Service Records

Service and maintenance records are available for this item of plant.

These records must continue to be maintained and stored in a secure area as part of your plant safety management programme. This programme includes the undertaking of regular inspections concerning the general condition of the item of plant including (but not limited to) tyre condition, oil levels and wear and tear on critical items such as brakes and steering, etc. All OEM prescribed, scheduled and non scheduled maintenance must also be documented as part of these records and attended to within a risk management framework.

References: Work Health & Safety Act & Regulations-

Assessor Comments: On Request

SECTION 6 IMAGES AND NOTES

IMAGES

- No Images Available -

NOTES

- No Notes Available -







RISK MANAGEMENT REPORT

TYPE	Rollers, Tandem Vibratory	Report Number	15313 20190830-1717
MAKE	Sakai	Date	30-Aug-2019
MODEL	SW502	Created By	Nic Mclennan
PRICING GROUP NUMBER	272A	Assessor	Nic Mclennan
		Assist. Assessor(s)	
		Owner	AB Equipment Limited
		Assessment Purpose	Hire
		State	NZ

OPERATOR ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the risk management report described above.

I also acknowledge that I have received a copy of this risk management report.

<u>DATE</u>	<u>NAME</u>	COMPANY/POSITION	<u>SIGNATURE</u>

30-Aug-2019