



Occupational Health and Safety

PLANT RISK ASSESSMENT

Plant Description:	Powerscreen 2100	Assessment No:	PRA-09
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Prepared by: Date:	Greg Fieldwick 24/10/2021	Approved by: Date:	Steven Fieldwick 24/10/2021

Reference Documents:

Fieldwicks SW105 Powerscreen Operations

Fieldwicks SW109 Screen Change Operations

Fieldwicks Employee Induction Handbook

Manufacturers Maintenance Manual

Manufacturers Operating Manual

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Entanglement: Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</p>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Machine guarding in place and checked on a daily basis as part of start up procedures • No person permitted to be in close proximity to moving belts, rollers, roller mounts. • Personnel to wear correctly fitted clothing and PPE • Emergency stop buttons and lanyards fitted • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Machine fitted with movement alarm • Use of remote control or umbilical cord to move machine 	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Crushing: <i>Uncontrolled or unexpected movement of the plant</i></p>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Machine guarding in place and checked on a daily basis as part of start up procedures • No person permitted to be in close proximity to moving belts, rollers, roller mounts. • Personnel to wear correctly fitted clothing and PPE • Emergency stop buttons and lanyards fitted • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Machine fitted with movement alarm <p>Use of remote control or umbilical cord to move machine</p>	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Cutting, Stabbing, Puncturing: Contact with moving parts of machine, sharp objects</p>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Machine guarding in place and checked on a daily basis as part of start up procedures • No person permitted to be in close proximity to moving belts, rollers, roller mounts. • Personnel to wear correctly fitted clothing and PPE • Emergency stop buttons and lanyards fitted • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Machine fitted with movement alarm • Use of remote control or umbilical cord to move machine 	8

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Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Shearing: <i>Body parts sheared between two parts of the machine or other structures</i></p>	16	<ul style="list-style-type: none"> • All persons to stand clear when lowering and raising dirt conveyor • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Machine guarding in place and checked on a daily basis as part of start up procedures • No person permitted to be in close proximity to moving belts, rollers, roller mounts. • Personnel to wear correctly fitted clothing and PPE • Emergency stop buttons and lanyards fitted • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Machine fitted with movement alarm • Use of remote control or umbilical cord to move 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		machine	
<p>Striking:</p> <p><i>During operation of plant, moving parts of plant, movement of plant</i></p>	<p>16</p>	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Machine guarding in place and checked on a daily basis as part of start up procedures • No person permitted to be in close proximity to moving belts, rollers, roller mounts. • Personnel to wear correctly fitted clothing and PPE • Emergency stop buttons and lanyards fitted • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Machine fitted with movement alarm • Use of remote control or umbilical cord to move machine 	<p>2</p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>High Pressure Fluid: Contact with high pressure fluids during operation or maintenance</p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine or to carry out maintenance • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Check leaks with cardboard not hands • Personnel to wear correctly fitted clothing and PPE • Emergency stop buttons and lanyards fitted • Daily plant inspections before the beginning of a shift are used to identify any potential oil leaks that may exist • Isolation Procedures are undertaken before any maintenance activity 	2
<p>Electrical: Contact with live electrical conductors during operation, overload of electrical circuits, electrical leads and cables</p>	23	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine or to carry out maintenance • Fieldwicks SWP105, SWP109 to be read and understood by all operators 	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> • Operator Manual Located on Machine at all times • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Machine is fitted with circuit breakers and fuses • JSA to assess risks from on site electricity 	
<p>Explosion: Explosion of onboard fuel supply or other substances</p>	16	<ul style="list-style-type: none"> • Operator Manual Located on Machine at all times • All obstacles that may be in the path of a machine are removed before work commences • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • All fluid lines are relieved on any pressure before they are disconnected and/or repaired • Isolation Procedures are undertaken before any maintenance activity • Machine is fitted with circuit breakers and fuses • Fieldwicks SWP105, SWP109 to be read and understood by all operators 	11

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Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Slipping, Tripping, Falling:</p> <p>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</p>	17	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine or to carry out maintenance • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Operator Manual Located on Machine at all times • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Handrails and ladders in place to allow for safe access and egress • All personnel accessing and egressing machine must always maintain a 3 point contact • Operators to move over and around machine in a careful and calm manner • Operators to take particular care moving around machine when wet. • Any work carried out above 1.5m must be on an approved platform 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Ergonomic:</p> <p>Repetitive body movements, inadequate lighting, poor vision from normal operating position</p>	13	<ul style="list-style-type: none"> • Licensed and Competent Operators • Use Handrails and platforms provided for safe access and egress • All personnel accessing and exiting machine must always maintain a 3 point contact • Provide additional lighting if operating during night time. • Machine fitted with UHF Radio 	5
<p>Suffocation:</p> <p>Exhaust Gases, atmospheric contamination, other fume sources</p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP105, SWP109 to be read and understood by all operators • Operator Manual Located on Machine at all times • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> Machines not to be operated within an enclosed building without appropriate venting 	
<p>High Temperature:</p> <p>Engine or exhausts, fluids or other exposure to high temperatures</p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP105, SWP109 to be read and understood by all operators Operator Manual Located on Machine at all times Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist Isolation Procedures are undertaken before any maintenance activity Machine fluids allowed to cool prior to maintenance works being carried out. Engine unit covers to be kept in place during operation Appropriate PPE gear to be worn 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<i>Falling / Moving objects</i>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • Appropriate PPE gear worn • All personnel to keep clear of operating plant unless necessary • When close to operating plant remain vigilant and do not turn back to machine 	8

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level