

**Occupational Health and Safety**

**PLANT RISK ASSESSMENT**

Plant Description:	<b>Vertical Shaft Impactor</b>	Assessment No:	<b>PRA-11</b>
Prepared by: Date:	<b>Greg Fieldwick 11/02/2026</b>	Approved by: Date:	<b>Steven Fieldwick 11/02/2026</b>

**Reference Documents:**

**Fieldwicks SWP104 VSI 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><b>Entanglement:</b></p> <p><i>Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</i></p>	<p><b>20</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks , SWP104 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	<p><b>8</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Crushing:</b> <i>Uncontrolled or unexpected movement of the plant</i></p>	<p><b>20</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks , SW104 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> </ul> <p>Use of remote control or umbilical cord to move machine</p>	<p><b>8</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Cutting, Stabbing, Puncturing:</b></p> <p>Contact with moving parts of machine, sharp objects</p>	<p><b>20</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks , SWP104 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	<p><b>8</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Shearing:</b></p> <p><i>Body parts sheared between two parts of the machine or other structures</i></p>	<p><b>16</b></p>	<ul style="list-style-type: none"> <li>• All persons to stand clear when lowering and raising dirt conveyor</li> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks , SWP104 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	<p><b>2</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Striking:</b></p> <p><i>During operation of plant, moving parts of plant, movement of plant</i></p>	<p><b>16</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks , SWP104 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	<p><b>2</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>High Pressure Fluid:</b></p> <p>Contact with high pressure fluids during operation or maintenance</p>	<p><b>16</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine or to carry out maintenance</li> <li>• Fieldwicks , SWP104 to be read and understood by all operators</li> <li>• Check leaks with cardboard not hands</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential oil leaks that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> </ul>	<p><b>2</b></p>
<p><b>Electrical:</b></p> <p>Contact with live electrical conductors during operation, overload of electrical circuits, electrical leads and cables</p>	<p><b>23</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine or to carry out maintenance</li> <li>• Fieldwicks , and SWP104 to be read and understood by all operators</li> </ul>	<p><b>11</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> <li>• Operator Manual Located on Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine is fitted with circuit breakers and fuses</li> <li>• JSA to assess risks from on site electricity</li> <li>• Fieldwicks , and SWP104 to be read and understood by all operators</li> </ul>	
<p><b>Explosion:</b> <i>Explosion of onboard fuel supply or other substances</i></p>	<b>16</b>	<ul style="list-style-type: none"> <li>• Operator Manual Located on Machine at all times</li> <li>• All obstacles that may be in the path of a machine are removed before work commences</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• All fluid lines are relieved on any pressure before they are disconnected and/or repaired</li> </ul>	<b>11</b>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine is fitted with circuit breakers and fuses</li> <li>• Fieldwicks , and SWP104 to be read and understood by all operators</li> </ul>	
<p><b>Slipping, Tripping, Falling:</b></p> <p><i>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</i></p>	<p><b>17</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine or to carry out maintenance</li> <li>• Fieldwicks , and SWP104 to be read and understood by all operators</li> <li>• Operator Manual Located on Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any</li> </ul>	<p><b>5</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<p>maintenance activity</p> <ul style="list-style-type: none"> <li>• Handrails and ladders in place to allow for safe access and egress</li> <li>• All personnel accessing and egressing machine must always maintain a 3 point contact</li> <li>• Operators to move over and around machine in a careful and calm manner</li> <li>• Operators to take particular care moving around machine when wet.</li> <li>• Any work carried out above 1.5m must be on an approved platform</li> </ul>	
<p><b>Ergonomic:</b></p> <p><i>Repetitive body movements, inadequate lighting, poor vision from normal operating position</i></p>	<p><b>13</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• Use Handrails and platforms provided for safe access and egress</li> <li>• All personnel accessing and egressing machine must always maintain a 3 point contact</li> <li>• Provide additional lighting if operating during night time.</li> <li>• Machine fitted with UHF Radio</li> </ul>	<p><b>5</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Suffocation:</b></p> <p><i>Exhaust Gases, atmospheric contamination, other fume sources</i></p>	<p><b>16</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks , and SWP104 to be read and understood by all operators</li> <li>• Operator Manual Located on Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Machines not to be operated within an enclosed building without appropriate venting</li> </ul>	<p><b>2</b></p>
<p><b>High Temperature:</b></p> <p><i>Engine or exhausts, fluids or other exposure to high temperatures</i></p>	<p><b>16</b></p>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks , and SWP104 to be read and understood by all operators</li> <li>• Operator Manual Located on Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift</li> </ul>	<p><b>5</b></p>

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<p>are used to identify any potential machine issues that may exist</p> <ul style="list-style-type: none"> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fluids allowed to cool prior to maintenance works being carried out.</li> <li>• Engine unit covers to be kept in place during operation</li> <li>• Appropriate PPE gear to be worn</li> </ul>	
<i>Falling / Moving objects</i>	<b>20</b>	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• Appropriate PPE gear worn</li> <li>• All personnel to keep clear of operating plant unless necessary</li> <li>• When close to operating plant remain vigilant and do not turn back to machine</li> </ul>	<b>8</b>

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