

Assessment Number:			Assessment Date:			Risk Matrix					
Plant Type: Skid Steer			Plant Make: Case		Plant Model: 440	Consequences	Likelihood or Probability				
Asset/Fleet/Rego No: -			Plant Serial No. -			People	Almost Certain (expected)	Likely (will probably occur)	Moderate (might occur – has happened)	Unlikely (could occur – known to happen)	Rare (practically impossible)
Assessment Facilitated by: (Name & Title) Assessment Participants:						No Incident or First Aid Injury	High 15	Medium 19	Low 22	Low 24	Low 25
						Medical Treatment	High 10	High 14	Medium 18	Low 21	Low 23
						Alternate Work or Lost Time Injury	Extreme 6	High 9	High 13	Medium 17	Medium 20
						Serious or Permanent Injury	Extreme 3	Extreme 5	Extreme 8	High 12	High 16
						Fatality	Extreme 1	Extreme 2	Extreme 4	Extreme 7	High 11
Plant Owner Name: DSI Road Profiling PTY LTD											
Initial Assessment <input checked="" type="checkbox"/>						Follow up Assessment (See below) <input type="checkbox"/>					
Follow up based on change to: Use of plant <input type="checkbox"/> System of work <input type="checkbox"/> Plant Environment <input type="checkbox"/> New or additional information <input type="checkbox"/> Plant through modification <input type="checkbox"/>											

Any hazard assessed as presenting a low and/or medium risk level will be controlled using a combination of controls as appropriate.

Any hazard assessed as presenting a high risk level must be controlled using a combination of at least one engineering control and lower level controls as appropriate. Where this is not possible, Workplace Manager consultation must take place.

Any hazard assessed as presenting an extreme risk level will be controlled using elimination and engineering as the primary source of controls. Where this is not possible, Workplace Manager consultation must take place.

Is the plant designed to perform the task? Yes No _____

Has the plant been modified from the original condition? Yes No _____

Is the plant in good working condition and free of weeds & mud? Yes No _____

All identified action items closed out/addressed (plant checks)? Yes No _____

Is the plant safe to operate? (On completion of PHA and action closure) Yes No Date: _____ Signature: _____

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>1. Are there any specific warnings or conditions (manufactures or other) relating to potential hazards from the operation of the item of plant?</p> <ul style="list-style-type: none"> ▪ Refer to technical or operating manuals, SOPs, safe use instructions ▪ List any relevant safety warning hazards & controls 										
<p>2. Are there any <u>COMMUNICATION</u> requirements in relation to the safe operation of the plant?</p> <ul style="list-style-type: none"> ▪ Active signalling processes. ▪ Point to point communications. ▪ Whistle ▪ Spotter (with/without whistles) ▪ Flag signalling ▪ Labels and signage 										

PLANT HAZARD AND RISK ASSESSMENT WORKSHEET (PHA)

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>3. Can anyone be <u>ENTANGLED</u> in the plant?</p> <ul style="list-style-type: none"> ▪ Hair or other body parts caught in moving parts ▪ PPE caught in moving parts ▪ Isolation devices ▪ Warning decals ▪ Guarding ▪ Rotating parts ▪ Emergency stops 	Y			Striking while sweeping	Maintain a 3m clearance (direction of travel) from ground personnel.	Low				

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>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)</p> <ul style="list-style-type: none"> ▪ 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 	Y			Striking/crushing pedestrians /bystanders	<ul style="list-style-type: none"> ○ Obey all speed limiting signs. ○ Read and understand all warning signs in cabin. ○ Conduct pre start check and ensure persons devices in working order. ○ Check area before reversing to ensure persons not in close proximity to plant. ○ Pass others only when given right of way. ○ Use flashing/lights after dark and in dim/dusty conditions. ○ Use all safety devices when operating plant e.g. reversing alarms, safety beacons, lights, horn etc. ○ Operate plant in accordance with training and licence/ticket conditions. ○ Avoid turning or travelling across a slope where practicable. ○ Maintain a 3m clearance (direction of travel) from ground personnel. 	Med				

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
5. Can anyone be CUT, STABBED or PUNCTURED? <ul style="list-style-type: none"> ▪ Flying objects ▪ Moving parts ▪ Pinch points ▪ Sharp edges ▪ Isolation devices ▪ Warning decals ▪ Guarding 										
6. Can SHEARING occur? <ul style="list-style-type: none"> ▪ Between two moving and rotating parts ▪ Between fixed and moving parts ▪ Warning decals ▪ Guarding 										
7. Can ABRASION, TEARING or STRETCHING occur? <ul style="list-style-type: none"> ▪ Continuous contact with moving parts ▪ Warning decals ▪ Guarding ▪ Pulling/pushing 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>8. Can anyone be STRUCK whilst operating the plant?</p> <ul style="list-style-type: none"> ▪ Plant disintegrating ▪ Mobility of plant travelling ▪ Reversing/travel alarm ▪ Amber flashing beacon ▪ Work pieces thrown out ▪ Moving parts ▪ Warning decals ▪ Guarding 	Y			Striking/crushing pedestrians /bystanders	<ul style="list-style-type: none"> ○ Obey all speed limiting signs. ○ Read and understand all warning signs in cabin. ○ Conduct pre start check and ensure persons devices in working order. ○ Check area before reversing to ensure persons not in close proximity to plant. ○ Pass others only when given right of way. ○ Use flashing/lights after dark and in dim/dusty conditions. ○ Use all safety devices when operating plant e.g. reversing alarms, safety beacons, lights, horn etc. ○ Operate plant in accordance with training and licence/ticket conditions. ○ Avoid turning or travelling across a slope where practicable. ○ Maintain a 3m clearance (direction of travel) from ground personnel. 	Med				

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
9. Can a hazardous PRESSURE be produced? <ul style="list-style-type: none"> ▪ Hydraulic hoses ▪ Radiator ▪ Come into contact with fluids under high pressure 										
10. Can an ELECTRICAL hazard be created? <ul style="list-style-type: none"> ▪ Lack of insulation ▪ Contact with electrical conductors ▪ Poor earthing ▪ Water near equipment ▪ Lack of isolation ▪ Warning decals 										
11. Can an EXPLOSION or LOSS OF CONTENTS occur? <ul style="list-style-type: none"> ▪ Gas emission, ▪ Dusts ▪ Vapours, lubricants ▪ Fuel tank ▪ Storage of Hazsub's/DG's near plant ▪ Warning decals ▪ Ejection of workpiece ▪ Collapse or fragmentation 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
12. Can anyone using or near the plant SLIP, TRIP or FALL? <ul style="list-style-type: none"> ▪ Uneven surface ▪ Fall from a height ▪ Weather conditions ▪ Slippery surfaces 										
13. Are there ERGONOMIC - MANUAL HANDLING hazards associated with the plant? <ul style="list-style-type: none"> ▪ Poor posture ▪ Repetitive or sustained movements ▪ Awkward positions ▪ Strained movements ▪ Poorly designed seating ▪ Access and egress ▪ Access for maintenance ▪ Routine inspections and adjustments 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>14. Are there ERGONOMIC - OPERATING CONTROL hazards associated with the plant?</p> <ul style="list-style-type: none"> ▪ 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 		N								
<p>15. Are there specific requirements for ISOLATION of energy sources?</p> <ul style="list-style-type: none"> ▪ Hydraulic pressure ▪ Compressed gases ▪ Electrical feeds/capacitors ▪ Motive power systems ▪ Suspended loads ▪ Operation by two or more persons 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
16. Can unplanned LOSS of POWER create a hazard? <ul style="list-style-type: none"> ▪ Engine shutdown ▪ Loss of electrical supply ▪ Loss of steering systems ▪ Ability to apply brakes and stop ▪ Ability to lower suspended loads 										
17. Can anyone be SUFFOCATED? <ul style="list-style-type: none"> ▪ Lack of oxygen ▪ Contaminated atmosphere ▪ Confined spaces ▪ Spaces where air flow is inadequate 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
18. Does operation of the plant cause extreme TEMPERATURE changes? <ul style="list-style-type: none"> ▪ Fire ▪ Burns through conduction ▪ Convection ▪ Cryogenic burns ▪ Operation in extreme heat or cold 										
19. Can a FIRE occur? <ul style="list-style-type: none"> ▪ Friction ▪ Ingress of materials/fluids ▪ Build-up of materials/lubricants ▪ Fuels ▪ Fire extinguisher 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>20. Can certain WEATHER conditions create a hazard?</p> <ul style="list-style-type: none"> ▪ Hypothermia / extreme cold ▪ Heat stroke / extreme hot ▪ Wet conditions ▪ Electrical storms ▪ Dirt & mud on roads at egress points 										
<p>21. Does VIBRATION of the plant create a hazard?</p> <ul style="list-style-type: none"> ▪ Plant becomes unstable ▪ Causes physical problems for the operator whilst operating ▪ Vibration of equipment ▪ Operation could cause unacceptable vibration levels in nearby structures 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
22. Can the plant emit toxic FUMES or VAPOURS? <ul style="list-style-type: none"> ▪ Exhaust fumes ▪ Chemicals ▪ Hazsub's/DGs 										
23. Carry out the NOISE survey on page 9. Is the plant noisy? <ul style="list-style-type: none"> ▪ Emit >85 dBA at the operator ▪ Effects operator communication ▪ Noise impacts on community during out-of-hours work (including reversing beepers) 	Y			Noise induced hearing loss.						

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>24. Carry out the LIGHT survey on page 9. Is there poor visibility</p> <ul style="list-style-type: none"> ▪ At the controls ▪ At the task ▪ Darkens surrounding areas ▪ Light impacts on community or sensitive natural environment during out-of-hours work 										
<p>25. Does the plant emit RADIATION?</p> <ul style="list-style-type: none"> ▪ Eg X-rays ▪ EMR ▪ Laser 		N								

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>26. Can operation of the plant create DUST?</p> <ul style="list-style-type: none"> ▪ Explosive atmosphere ▪ Breathing hazard ▪ Reduced visibility ▪ Nuisance dust at nearby community 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>27. Can the plant become UNSTABLE during operation?</p> <ul style="list-style-type: none"> ▪ Working on uneven / unstable ground ▪ Shifting load ▪ Lack of plant support ▪ Outriggers 										
<p>28. Could LOSS of LOAD occur?</p> <ul style="list-style-type: none"> ▪ Failure of ropes/slings ▪ Overloading ▪ Entanglement in surrounding structures ▪ Maintenance requirements 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
<p>29. Is there anything in the SURROUNDING ENVIRONMENT that may produce a hazard?</p> <ul style="list-style-type: none"> ▪ 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 										

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
30. Can CHEMICALS create a hazard? <ul style="list-style-type: none"> ▪ Leaking from plant ▪ Splashing ▪ Explosion ▪ PPE considerations ▪ Spill kit considerations 										
31. Operator TRAINING / QUALIFICATIONS? <ul style="list-style-type: none"> ○ Training requirements ○ Qualification requirements ○ Competency assessments ○ Documentation ○ Operators manual ○ Equipment experience ○ Product knowledge 	Y			Lack of training – inadequate operation of skid steer	<ul style="list-style-type: none"> ○ Ensure only competent skid steer operators are used 	Low				

Potential Hazards	Hazard			Describe Hazard	Controls Currently In Place on Plant	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)
	Y	N	N/A							
32. Are there ANY OTHER potential hazards generated by or during the use of this item of plant and/or any attachments?										

PLANT HAZARD AND RISK ASSESSMENT WORKSHEET (PHA)

COMMENTS:
