

PLANT RISK ASSESSMENT REPORT



SECTION 1: PLANT IDENTIFICATION

Assessed by:				To book	Assessment	Company:	Report Number:
Darre					0	Wack	407/2
Darren Husson - VEHTEC Pty Ltd	Other : Group assessment of plant type	Modification/s	Access Systems	Operational risks associated with the unit as it stands – Desk top analysis	Operational risks associated with the unit as it stands - On site	Wacker Neuson	407/201-08
	the unit as it stands						
				- Desk top analysis	- On site	Premium Vibratory Plates	Assessment Date: 15 th June 2012
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SECTION 2: PLANT SUMMARY

Preamble:

either diesel or petrol motors. Base plate widths range from 300 mm to 870 mm (with extension plates). This assessment is designed to encompass Premium Value Vibratory Plates. This range includes reverse functionality, water spraying capabilities and

conducted in accordance with the OHS&W Legislation – 2010 Part 3 Division 3.3 This document is intended to highlight Occupational Health Safety and Welfare related risks that may present during on site set up and operation and has been

ed:Date:	A Signe	□Yes □N/A Signed:	Has the required action / remedy been undertaken?
	0	□Yes ⊠ No	Is action required before the plant can be safely used?
e:Position:	• Name	⊠Yes □ No Name:	Is the plant in good working condition?
	0	□Yes ⊠ No	Has the plant been modified from the original design?
Final Sign off by Employer/Owner user - All actions/recommendations complete	0	⊠Yes □ No	Is the plant designed for its intended use?

























Level	Table 1. Measure of Likelihood Description The great is a	of Likelihood
A	Almost Certain	The event is expected to occur in most circumstances
₩.	Likely	The event will probably occur in most circumstances
0	Moderate	The event should occur at some time
D	Unlikely	The event could occur at some time
m	Rare	The event may occur only in exceptional circumstances

Level	Level Description	Detail
1	Insignificant	No injuries, low financial loss
2	Minor	First Aid treatment, on site release immediately contained, medium financial loss
ω	Moderate	Medical treatment required, on site release contained with outside assistance, high financial loss
4	Major	Extensive injuries, loss of production capability, off site release with no detrimental effects, major financial loss
OI	Catastrophic	Death, toxic release off site with detrimental effect, huge financial loss

		#	able 3. Risk	Table 3. Risk Analysis Matrix	ix	
				Consequences		
	Likelihood	Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
P	(Almost certain)	S	S	н	н	I
8	(Likely)	Z	S	S	=	=
C	(Moderate)		M	S	H	H
D	(Unlikely)			3	S	H
m	(Rare)	-		Z	S	S

Legend:

- **H**= High risk, detailed research and management planning required.
- S= Significant risk, senior management attention needed. Continuous review.
 M= Moderate risk, management responsibility. Periodic review
- **L**= low risk, manage by routine procedures. Periodic review to ensure risk does not increase.

SECTION 4: HAZARD IDENTIFICATION

			Yes	The rigidity and stability of the plant and supporting structure is adequate. (Unit to be operated within its capabilities and with regard to recommended operating environs)	28
			N/A	Safe systems of work have been established for hazards associated with any necessary maintenance of the plant (Employers responsibility)	27
			Yes	There is adequate provision to properly service and routinely grease and oil the plant (Unit to be maintained by appropriately trained personnel in terms of operators manual)	26
			N/A	Safe system of work has been established for any sample retrieval	25
			N/A	A safe system of work has been established to remove jam/blockage (Ram block/jam only to be cleared by trained or experienced persons. Unit to be isolated in terms of operating manual) (Clients assessment required)	24
-	_	C	Yes	The plant has the potential to jam/block	23
			Yes	There is provision for easy and safe scrap removal	22
			N/A	Safe access to areas to be cleaned has been provided	21
			N/A	There is provision for safe cleaning of this plant (NB availability of cleaning devices)	20
			No	PPE requirements are signposted (Employers' responsibility dependant on internal Management Policies)	19
			N/A	Personal Protective Equipment (PPE) has been provided for safe operation of this plant (Employers responsibility)	18
S	2	A	No	Noise levels have been assessed as below 85dB(A) (Operator required to wear appropriate PPE)	17
			No	Lighting is adequate for plant operation, maintenance and cleaning at any time	16
			N/A	Access platforms/ladders/handrails provide secure, non slipping access	15
			N/A	Access to moving parts from the platform can be performed safely	14
			N/A	Access platforms/ladders/handrails are provided	13
			Yes	There is provision to lock out the plant, and dissipate energy	12
			ies	employees. (Unit to be maintained as per Operators Manual)	TT
			Voc	The power source of the plant has been designed, constructed, installed, protected, maintained as to minimise the risk of harm to	2
			Yes	Emergency stops are located at the most likely place (s) for emergency use	10
			Yes	Emergency stops are clearly marked	9
			Yes	Operator controls are identified and marked appropriately	8
			Yes	Operator controls are located for ease of use by operators	7
			Yes	Is the guarding appropriate for all work requirements (Designed for application)	6
			Yes	The current guard (s) and their condition are adequate for this plant (Designed for application)	5
	78		No	Repetitive, forceful, awkward, sustained movements have been minimised/ eliminated	4
			Yes	Manual handling requirements have been assessed as acceptable (To be lifted using designated lift points as per operators manual. Clients assessment required)	3
			Yes / No / N/A	Yes/	
s	2	A	Yes	Noise (Low dB levels) (Operator required to wear appropriate PPE)	2.16
	2	0	Yes	Temperature Extremes (Operator to be managed by SOP and/or Employers policy)	2.15
-	2	т	Yes	Hot and Cold Parts (Engine when performing maintenance checks, checks to be undertaken when unit is cold. Never perform maintenance when unit is hot. Exhaust system outlet on engines may reach high temperatures at times.)	2.14
			No	Laser Beams	2.13
			No	Ice Formation	2.12
			No	Friction	2.11

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	N/A	Responsibility)	34
	N/A	The instrumental desired surrounds have been established	20
	N/A	Authorized extraction for the pignit have been assessed	22
		Workplace substances associated with the use of the plant have been associated	32
	N/N	Static electricity hazards have been assessed and controlled	31
	Yes	Ventilation and/or other air flow needs are adequate	30
	N/A	Responsibility)	29

		1.9b 1.10 1.11 1.11a	1.4b 1.6a 1.6b 1.7 1.8 1.9a	1.3a 1.3b 1.4a			Hazard Item No	
			Moderate				Level of Risk	
			Significant		0. = 10	W 0 0 IT		
Revised Risk Assessment With the above controls in place the risk is considered controlled.	ALWAYS use caution when operating near the edges of pits, trenches or platforms. Check to be sure ground surface is stable enough to support the weight of the unit and operator and ensure there is no danger of the machine sliding, falling or tipping.	When operating on slopes or hills, always operate the machine up and down hills rather than from side to side. NEVER operate the machine sideways on slopes. The machine may roll over, even on stable ground.	Operator to keep bystanders away during starting and operation. Prior to starting the unit, the operator is to ensure that both they and the unit are on stable level ground and start the unit as per operators manual and instructions and keep clothes and limbs clear of the Vibratory Plate at all times.	Controls Operator is to perform a Jobsite Safety Analysis (JSA) prior to operation. Work Zone Traffic Management (WZTM) procedures need to be implemented prior to operation.	Comments Incorrect use of the unit posses a physical risk to the operator and bystanders.	Hazard General set up and operation of the Vibratory Plate can cause cutting, stretching, trapping, abrasion, engulfment, crushing, shearing and tearing hazard.	Action Required / Comments	Summary of Hazards Identified and solution(s) to adequately manage the respective risk
	Verified by: (Name & Date)		(Name & Date)	Actioned by:	Responsible Person	Action Required		to adequately ma
					Operator	Nii		nage the respective risk.
					Due Date			

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	2.5 2.7 2.9 2.16 17				1.13 1.13a		
	Low				Low		
	Significant				Moderate		
as required by the end users assessment of the operational environment. Revised Risk Assessment With the above controls in place the risk is considered controlled.	Controls Operators are to be completely familiar with the Operators' manual prior to use of the unit. Operator to utlise water for dust suppression where fitted to Vibratory Plate. Appropriate ear protection and breathing masks are to be used	Dust, noise and vibrations Comments Vibratory Plates can create dust through the compaction process.	Hazard	The unit is only to be used in environments as per operators manual. Revised Risk Assessment With the above controls in place the risk is considered controlled.	Controls Operators' are to be completely familiar with the Operators' manual prior to use of the unit.	Comments By design the Vibratory Plate exerts significant downward pressure which can violently affect the user	Hazard Slipping and tripping.
Verified by: (Name & Date)	Actioned by: (Name & Date)	Responsible Person	Action Required	Verified by: (Name & Date)	Actioned by: (Name & Date)	Responsible Person	Action Required
		Operator	N:			Operator	N:I
		Due Date				Due Date	

	2.8		
	Significant		
Revised Risk Assessment With the above controls in place the risk is considered controlled.	Engine Operators Manual to be followed at all times. No sparks, flames, or burning objects near the machine. Shut off the engine before refuelling. SOP to be followed when refueling the engine.	Exhaust system can reach high temperatures. Controls Operators' are to be completely familiar with the Operators'	Hazard
Verified by: (Name & Date)	Actioned by: (Name & Date)	Responsible Person	Action Required
		Operator	Nil
		Due Date	

SECTION 6: CONTROL MEASURES AND TRAINING

Control Measures

	Operational Risk Operational Risk Environment.	Attachments unit when in operation.	Modifications of the unit. Modif	General Operation The unit is intend	Pre-Operation A Standard Opera Complete familiar	
This risk assessment has been prepared with the knowledge that effective Work Zone Traffic Management (WZ IVI) systems will be elliployed in line with AS1742.3, OHS&W Regulations 2010, Road Traffic Act 1971 and internal Standard Operating Procedures.	This risk assessment does not negate the requirement of the operator/supervisor to conduct an operatorian intended use and its interface with the operators and the suitability of this piece of plant to integrate and complete the required task. This document has been prepared with due care, however cannot be considered complete given the limited knowledge of the intended operational environment.	Only OEM attachments (or those authorised by the OEM) should be used on the unit. Non authorised attachments may affect the safety and stability of the unit when in operation.	Any modification to the factory unit should be strongly considered to ensure that it will not have any detrimental effect to the stability, safety or operation of the unit. Modifications should only be undertaken by suitably qualified or experienced persons.	The unit is intended for relatively flat ground deployment only.	A Standard Operating Procedure (SOP) should be developed for the correct use of the units systems prior to deployment. Complete familiarisation of the Operators Manual and all systems shall be considered Mandatory.	

Operator Competencies

operator components	
Formal Qualifications:	Must comply with the regulations enforced by the WorkSafe authority within the state that the plant is being operated.
	Skills must comply with the requirements of the guidelines established by the relevant state based Worksare authority and assessed by
Competency Assessed Skills:	the state WorkSafe body's authorised assessor.
General Training Instruction:	On the job training by qualified Operator
Experience:	As appropriate and assessed (as above)
Standard Work Procedure (s):	To be developed by the client/user

SECTION 7: PLANT INSPECTIONS, MAINTENANCE AND TESTING

Maintenance and Testing Requirements	Frequency	
inspection, Maintenance and resemble requirements of with the plant	Refer Operator Manual	
Manufacturers Operator and Service manuals as supplied with the plant	Incirci Operation	
Mallulacturers obstacle and occurrence	As per Manufacturers guidelines	
Servicing and Maintenance		
Daily chacks as per operators handbook	Daily perore use	
Dally cliecks as per operators managed.		

^{*}This is not a definitive list and may need to be revised over time