

Assumptions: Provisions of the Approved Code of Practise will apply to all operations as the minimum required standard and will not be re-visited in the control plans below (inclusive of PPE, emergency items, standard operating procedures, maintenance of plant & equipment to manufacturers specifications, training and supervision practices).	High Risk After Controls: Dist. Manager approval required. High Risk With New Controls: GM approval required.
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Vault ID #	Task/Area where hazards exists	Hazard – what can cause harm	Potential outcome – what can happen	Likelihood	Consequences	Risk Rating (Inherent)	Required Control Measures List the control measures required to eliminate or minimise the risk of illness or injury for each hazard identified	Frequency of Monitoring or Action Date	Personnel Responsible The person required to action the control measure	Eliminate	Type Minimisation Controls	Likelihood	Consequences	Risk Rating (Residual)
5290	Loading/unloading trucks and trailers with logs	Machine failure, Lifting chain failure, Loss of control log or trailer Working alone Restricted visibility Manual Handling - chain throwing Other persons Slips, trips, falls Communications High stacks Harvesting/3PY operations – chain shot	Fatalities, crushing injuries, sprains, strains, cuts, lacerations, foreign body in eyes, amputations, fractures, dislocations	B	5	E	- Establish communication between truck driver and loader operator - Pan Pac inducted log cartage drivers - Qualified loader operator or under appropriate supervision - Designated loading zone - Certified lifting chains - Machine maintained as per manufacturer specifications - Levelled and free from obstructions loading zone - Maintain documented load limit - Monitoring as per SBO Truck Loading	On arrival All times All times All times All times Annually All times All times	Contractors Contractor Contractor All persons Contractor Contractor Contractor Contractor	X	A A A I Eng Eng A A A	D	2	L
5291	Unchaining bay	Hit by a chain, Loss of control - Logs Vehicle traffic Slips, trips, falls Manual handling – chains	Fatalities, serious injuries, ankle sprains and strains, twitch injuries	C	5	H	- Dedicated unchaining bay - Traffic management – mirror, road markings, speed, two lanes, one-way - Signage – foot traffic, log trucks only, speed - Minimum PPE – hard hats, high visibility clothing and safety footwear - Good Housekeeping - bark sweeping outside operational hours. - Induction programme – all users - Bolsters recertified each 5 years (annual visual) - Auto-tensioning systems mandatory for new trucks (trial) - No overloading of trucks – no more than one third of a log above the bolster - Check extension pins are up before unchaining - Check blind spots prior to exiting bay as per signage.	All times All times All times All times Weekly Bi-annual 5 Yrly As required All times All times All times	Pan Pac Pan Pac Pan Pac Pan Pac, Contractor Pan Pac Pan Pac Contractor Contractor Contractor Contractor Contractor	X	I A A A A A Eng Eng A A A	D	5	M
5292	Truck wash areas	Open pit Fall from height Flying debris, Manual handling Slip trip fall Hoses Confined Space H2S	Death, serious injuries, eye injuries, sprains/strains	C	3	H	- Automatic truck wash (regularly maintained) - One way traffic management in place (separation barriers to be installed) - Lighting - Signage - Chain and barriers around the pit to stop persons falling into pit - Davit arms (2) for filter clean - General Housekeeping - Induction programme – all users - Permit to work process for pit	All times All times All times All times All times All times All times All times Bi-annual All entries	Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Contractors & Staff	X	Eng A A A I Eng A A A	D	3	M
5293	Fuel pumps – diesel (20000l) and ad blue	Flammable liquid Loss of containment Splash Dust Noise Nearby operations	Minor injuries Eye injuries Skin absorption Long term health impact (carcinogen)	D	2	L	- Certified fuel tank with bunding - Signage - Maintenance programme - Emergency stop button - Emergency procedure - Spill kit - Safety data sheets - Induction programme – all users - PPE – gloves worn - Environmental monitoring	All times All times All times All times All times All times All times All times Bi-annual All times Quarterly	Pan Pac Pan Pac Pan Pac/ Contractor Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac/ Contractor Contractor Pan Pac	X	Eng A A A A A A A A A A	D	2	L
5304	Truck mounted crane boom mobility. (transiting with crane not stowed correctly)	Overhead items; power lines telecommunication lines bridges overpass	Fatalities Electric shock Electrocution Burns Fall from heights	C	5	H	- Standard operating procedure – operating cranes - Check that the crane is stowed before transiting - Audible alarm/red light notification if crane is left up. - GPS in vehicles	At all times At all times At all times At all times	Contractor Contractor Contractor Contractor	X	A A Eng A	E	5	M
6327	Empty log truck trailer loaded/unloaded (off site) (lifting in forest – includes self loading)	Lifting chain failure Loss of control, hit by Pinch points Slip, trip, fall Machine on person Debris Dust Communication failure	Fatalities Serious injuries Amputation Crushing	C	5	H	- Landing & skid sites designed/built as per the ACoP & Engineering standards - SBO Truck loading - Certified chains and inspection - PPE (head torches for lighting) - Communications – radios and hand signal - Well maintained loadout zone (landing) - Stay in safety zone away from suspended trailer - Keep trailer lift close to ground, use POGO sticks - Ensure trailer is balanced, stable lift position - Know lifting limits of machine - Crew induction for self-loader by machine - Trailer dolly lock modification - Self loader drivers have WTR endorsement on licence and record of learning on file	All times	Pan Pac Pan Pac Contractor Contractor Contractor Contractor Harvesting Contractor Contractor Contractor Contractor Contractor Contractor Drivers	X	Eng A A A A A A A A A A A A	D	5	M

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ENVIRONMENTAL														
6435	Log Cartage Operations Maintenance	Hazardous Substances (storage, transportation, decanting, mixing)	Soil, water, air contamination Consent breach Social License	B	2	H	• Maintenance Workshops available and in use • Isolate from sensitive sites. Minimum approach distances (MADs); ◦ Waterways >3m buffer 3m, <3m buffer 5m ◦ Empheral streams 5m ◦ Wetlands 10m ◦ Waterways – 10m all hazardous Substances (decanting, mixing, storage) • Substitution as available • SDS's available and understood • Emergency planning and equipment available - spill/first aid kits, fire equipment	All times All times All times All times All times	Pan Pac Pan Pac, Contractor Pan Pac, Contractor Pan Pac, Contractor Pan Pac, Contractor	E A A A	I 	B	2	M
6461	Travel in & outside Forest	Dust Mud Debris Sediment (fords & river crossing)	NES-CF breach Disturbance to neighbours Eco system damage (freshwater) Loss of social license	B	2	H	• Crossing formation, requires metalled approaches • Max 20 axle crossings for fords, or consent needed • Forest & county road speed limits • Log truck debris check before entry to public roads • Truck wash • Dust suppression agents • Limited hours of operation	All times All times All times All times As required As required As required	Pan Pac Pan Pac All Log Cartage Pan Pac, Log Cartage Pan Pac Pan Pac, Log Cartage	 Eng A A A Eng Eng A	 D 	 2	M	