

SITE RISK ASSESSMENT FORM

RISK ASSESSMENT for: Konayuki / Makaira
 KPIN/s: 8000 /3390

STEP 1: Identify Hazards		STEP 2: Risk (High, Medium, Low)	STEP 3: Control Hazards (Eliminate, Isolate or Minimise)				STEP 4: Continuous Improvement
Source	Hazard	Risk	E	I	M	Hazard Control	✓
Prior land usage							
Previous crops	<ul style="list-style-type: none"> Residual herbicide / pesticide residues Poor quality soil 	L			✓ ✓	<ul style="list-style-type: none"> Soil testing to determine issue Soil management to improve soil condition e.g. mulching No Previous Use - long term kiwifruit cropping	
Industrial use	<ul style="list-style-type: none"> Chemical residues Crop growth reduced 	L			✓ ✓	<ul style="list-style-type: none"> Identify areas of potential contamination Soil testing to determine issue No Previous Use - long term kiwifruit cropping	
Chemical storage sites	<ul style="list-style-type: none"> Chemical residues Crop growth reduced 	L			✓ ✓ ✓	<ul style="list-style-type: none"> Identify areas of potential contamination Soil testing to determine issue Remove soil or restrict use No Kpin has been used as a chemical storage site	
Current land usage							
Chemical/ fertiliser storage	<ul style="list-style-type: none"> Leakage of chemicals/ fertilisers into environment Flood causing significant contamination 	L			✓ ✓ ✓ ✓	<ul style="list-style-type: none"> Appropriate location of storage Bunding Secure storage Appropriate drainage 	

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Product mixing areas	<ul style="list-style-type: none"> Leakage of chemicals/ fertilisers into environment 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> Appropriate location Only trained / qualified staff Correct mixing/measuring procedures followed Ensure appropriate drainage 	
Equipment cleaning areas	<ul style="list-style-type: none"> Leakage of chemicals/ fertilisers into environment 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> Appropriate location - dedicated area Only trained / qualified staff Procedures followed on disposal of water 	
Waste disposal	<ul style="list-style-type: none"> Leakage of toxins into environment Flood causing significant contamination Harbouring pests Breakdown of physical waste - toxic 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> Correct disposal of tank washing Ensure appropriate drainage Staff trained in what to do with waste 	
Domestic animals	<ul style="list-style-type: none"> Physical damage to site and waterways Bacterial (animal waste) 	L			<ul style="list-style-type: none"> ✓ 	<ul style="list-style-type: none"> Keep animals off orchard or restrict time they are allowed - no animals during harvest 	
People movement	<ul style="list-style-type: none"> Physical damage to site Bacterial (transfer of disease) 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> Restrict access to orchard Hygiene rules in place (PSA) Staff trained 	
Vehicle movement	<ul style="list-style-type: none"> Weight damage to the soil Physical damage to site Bacterial (transfer of disease) Erosion 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> Restrict vehicle use Use low pressure tyres Minimise weight of vehicles Plant ground cover 	

Do not use soft riders for harvest

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Site maintenance	<ul style="list-style-type: none"> Contamination or physical damage to product 	L			✓	<ul style="list-style-type: none"> Site infrastructure is regularly inspected and maintained / cleaned where appropriate 	
Susceptibility to disease							
Plants	<ul style="list-style-type: none"> Sources of inoculum nearby Presence of vector-borne disease Environmental conditions conducive to proliferation of disease 	L			<ul style="list-style-type: none"> ✓ ✓ 	<ul style="list-style-type: none"> Remove all infected material from the orchard, do not mulch PSA - KVH allow mulching Provide training on protect workers and their communities from mosquitoes, ticks, bugs, flies and other vectors Improved infrastructure, water storage, sanitation 	
Environment							
Wild animals and birds	<ul style="list-style-type: none"> Physical damage to site to site and waterways Bacterial (animal waste) Pests - competition to native species 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> Bird control as appropriate Removal of host plants / food source Control animal access to waterways Trapping 	
Wrong Vegetation - harbours pests	<ul style="list-style-type: none"> Damage to crop (physical) Bird droppings (bacterial) Damage to crop (sooty mould) 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> Plant appropriate vegetation Remove vegetation Monitor crop / surrounds for pest damage Monitor for wheat bug and its host plant 	


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Air pollution	<ul style="list-style-type: none"> Dust, smoke, industrial fumes - chemical residue, worker health 	L			✓	<ul style="list-style-type: none"> Equipment and machinery maintained 	
Neighbour spray drift	<ul style="list-style-type: none"> Residue resulting from spray drift 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> Shelter belts planted and maintained Spray notification system in place Zespri residue testing programme 	
Sources of inoculum or vectors of disease	<ul style="list-style-type: none"> Spread of disease 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> Removal of plants Monitor for presence of pest / disease Spray application 	
Water	<ul style="list-style-type: none"> Water shortage Availability of water appropriate for orchard activities 	L			<ul style="list-style-type: none"> ✓ 	<ul style="list-style-type: none"> Store water when plentiful for use in times of shortage no irrigation Match water inputs to crop needs (e.g., using irrigation budget based on ET, canopy cover and rainfall) <p>No irrigation on orchard. Water use for spray only</p>	
Soil suitability							
Soil structure	<ul style="list-style-type: none"> Easily eroded - contamination of water sources Water loss Nutrient loss Soil loss Crop growth reduced 	L			<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> Restrict people and vehicle movement Mulch Ground cover Grass sward, regenerative planting Nutrient management based on soil testing <p>Soil testing with Lynsey heard</p>	

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Chemically unsuitable	<ul style="list-style-type: none"> • Soil toxic to plants • Acidity levels • Nutrient shortage 	L			✓	• Soil testing / Soil Consultant	
Landform drainage patterns	<ul style="list-style-type: none"> • Flooding • Increase in bacterial risk 	L			✓	• Review and design drainage systems	
Slope	<ul style="list-style-type: none"> • Increased erosion 	L			✓	• Retaining walls Planting	
Wind exposure	<ul style="list-style-type: none"> • Soil loss • Plant damage 	L			✓	• Wind breaks	

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NOTE: Tick in the CI column any actions that you may plan to do or have identified as an opportunity for improvement. Move only action(s) you intend to act on in the next 1-3 years to your continuous improvement plan form (The continuous Improvement plan is in Part B: Section 1.6 of the Grower Manual).

SEP 5: Review

Date: 1 November 2023	Sign: <i>Chloe King</i> 	Date:	Sign:
Date:	Sign:	Date:	Sign:
Date:	Sign:	Date:	Sign: