

ORCHARD WASTE & POLLUTION MANAGEMENT PLAN FORM

The purpose of the plan is to manage waste appropriately and mitigate the risk of pollution. This includes considering the risk of waste or pollution contaminating kiwifruit and the environment.

Management plan for: Konayuki / Makaira
 KPIN/s: 3390 / 8000

Please consider all contamination to:

- Orchard
- Soil
- Kiwifruit
- Nearby water sources
- Air
- Adjacent land areas

POLLUTION PLAN INSTRUCTIONS

- Review the set of potential pollution and contamination sources listed in the table below
- Tick (✓) the pollution/contamination source that applies to your orchard. Add additional sources in the blank rows provided at the end of each source
- Cross (x) to aspects that do not apply to your orchard. The “Comment” column can be used to add reasons/justifications (if required)
- Add additional mitigations you apply in the extra spaces provided in column 3
- Tick (✓) the mitigations you apply to your orchard in column 4
- Cross (x) to actions you do not take. The “Comment” column can be used to add reasons/justifications
- Tick (✓) in the CI column any actions that you may plan to do or have identified as an opportunity for improvement in the future
- In the comments column, add action notes and/or details for transfer to the Continuous Improvement Plan. This column can also be used to explain KPIN variations

*Note: Items marked * are specific Zespri GAP Principal Levels; Major or Minor*

CONTINUOUS IMPROVEMENT PLAN REMINDER: 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).

Contamination / Pollution Source	✓ / X	Mitigation Of Impact	Action In Place ✓ / X	Comments	CI Continuous Improvement ✓
Agrichemical/ Fertiliser use/ storage (Spray drift /spillage/ misuse)		Low drift technology	✓		
		Spraying in the right conditions	✓		
		Qualified people only	✓		
		Calibration of equipment	✓		
		Knowledge of sensitive areas	✓		
		Spray Plan up to date and followed	✓		
Machinery emissions		Keep machinery in good working order (i.e., Maintenance schedule)	✓		
		Fuel efficient/electric machinery	✓		
		Monitor for excessive noise on a _____basis (how often)	X		
Waste		See orchard waste disposal table below	✓		

Contamination / Pollution Source	✓/ X	Mitigation Of Impact	Action In Place ✓/ X	Comments	CI Continuous Improvement ✓
materials					
Oil/fuel		Keep securely stored as per legislation	✓		
		Don't buy excess to requirements	✓		
		Bunded areas at least 110% of largest tank	NA		
		Waste to be taken to recovery programme	✓		
		Spillage management kit	✓		
		No smoking signage to prevent explosion. Fire provisions nearby	✓		
Toilets		Keep temporary toilets away from water (including drinking water, wash water and waterways)	✓		
		Check condition; maintain as needed	✓		

Contamination / Pollution Source	✓/ X	Mitigation Of Impact	Action In Place ✓/ X	Comments	CI Continuous Improvement ✓
Burning		Keep burning to a minimum (permit where required)	✓		
		Check weather conditions before burning	✓		
		Minimise impact on neighbours	✓		
		Not burning tanalised timber	✓		
		Only burning organic/ green waste/ non-toxic items	✓		
		Burning green waste only when dry	✓		
		Consider fire risks	✓		
Leaching (or “Nutrient (fertiliser) losses to waterways”		Match fertiliser & compost application (right type, rate, place, and timing) to crop needs and identify orchard risk factors (re. soil type & rainfall) and consider those when applying fertilisers.	✓		

Contamination / Pollution Source	✓/ X	Mitigation Of Impact	Act ion In Pla ce ✓/ X	Comments	CI Conti nuous Impro veme nt ✓
Water sources (identified on mapping)		For bore - protection of source, ensure minimal damage; contractors educated		On a scheme	
		Surface water			
Washdown (risk to water sources)		Drainage of wastewater risks to water sources	✓		
		Segregated wash down areas	✓		
		Capturing wastewater (and listing how it is disposed of)	✓		
Spray drift		Refer to the Property Spray Plan.	✓		

WASTE PLAN INSTRUCTIONS

- Review the waste on orchard listed in the table below
- Tick (✓) waste products that applies to your orchard in column 2. Add additional sources in the blank rows provided
- Cross (x) any waste products that do not apply to your orchard. Add reasons/justifications in the comments column
- Write the location waste is stored prior to disposal or collection in column 3
- Tick (✓) or Cross (x) if this waste product is recyclable. Add additional disposal or recycling options in column 5
- Tick (✓) and/or in the CI column that you may plan to do or have identified as an opportunity for improvement in the future. Use the comments column
- Cross (x) to actions that do not apply to your orchard of waste that applies to your orchard. Add reasons/justifications in the comments column to add action notes that can be transferred to the Continuous Improvement Plan
- Tick (✓) storage of waste is identified on the site map in column 7

*Note: Items marked * are specific Zespri GAP Principal Levels; Major or Minor*

CONTINUOUS IMPROVEMENT PLAN REMINDER:

Record CI in the “Action in Place” column for 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)


Waste Products	✓ / X	Where Is The Waste Product Stored Prior To Disposal/ Collection?	Is It Recyclable? ✓ / X	Disposal / Recycling Options	Action In Place ✓ / X / CI	Storage Identified On Site Map	Comments
<i>Example line: Cardboard boxes</i>	✓	<i>By the recycling station</i>	✓	<i>Local recycling scheme</i>	✓	Yes	
Pruning organic waste				Mulched & spread around orchard	✓		
Kiwifruit				Animal feed or processing	✓		
Obsolete agrichemicals/ fertiliser				Give away (keep records)			
				Return to manufacturer			
				Agrecovery scheme	✓		
Empty agrichemical containers				Agrecovery scheme	✓		
				Local transfer station			
Surplus application mix and tank washings				Apply over untreated part of crop or land where it does not pose risk to environment	✓		
Recyclables (Plastics / paper / cardboard / glass)				Local recycling scheme	✓		
Oil/diesel				Collection	✓		
				Use as fence/post treatment			
Damaged pallets				Returned to the packhouse; wood reused	✓		Return to packhouse

Waste Products	✓ / X	Where Is The Waste Product Stored Prior To Disposal/ Collection?	Is It Recyclable? ✓ / X	Disposal / Recycling Options	Action In Place ✓ / X / CI	Storage Identified On Site Map	Comments
pallets/ bins				Wood reused			Return to packhouse
Wire and other metals				Repair; recycle; reuse for another purpose	✓		
Timber (i.e., broken pergola/ posts)				Permit to burn	✓		
				Use for another purpose	✓		
Worker rubbish				Recycling options	✓		
				Waste bins	✓		
				Workers instructed to take all rubbish off site	✓		
Garden waste				Composting	✓		
				Take to transfer station			
Cleaning water/ Wastewater				Apply over or drain to land where it does not pose risk to environment	✓		
Netting (mesh)				Recycle; reuse for another purpose	✓		
String				Plasback	✓		reuse
Packaging materials				Recycling options	✓		
Picking Gloves							

Waste Products	✓ / X	Where Is The Waste Product Stored Prior To Disposal/ Collection?	Is It Recyclable? ✓ / X	Disposal / Recycling Options	Action In Place ✓ / X / CI	Storage Identified On Site Map	Comments
Gloves (plastic, latex, or cotton)							Cotton
Irrigation piping (plastics)				Repair; recycle; reuse for another purpose	✓		
Plastics: Litter				Pick up & recycling options	✓		
Plastics: Orchard Clips				Pick up & recycling options			
				Reuse	✓		
Plastics: Clip fragments				Pick up & recycling options			
Plastics: Netting				Recycle; reuse for another purpose	✓		
Plastics: Gloves				Recycling options			NA
Plastics: Irrigation Piping				Local recycling scheme			NA
Plastics: Chemical containers				Local recycling scheme	✓		
Plastics: Fertiliser Bags				Recycle; reuse for another purpose	✓		
Plastics: String (incl. fragments)				Pick up & recycling options/ dispose	✓		

Waste Products	✓ / X	Where Is The Waste Product Stored Prior To Disposal/ Collection?	Is It Recyclable? ✓ / X	Disposal / Recycling Options	Action In Place ✓ / X / CI	Storage Identified On Site Map	Comments

Review:

Date: 18/10/2023	Sign: 	Date:	Sign:
Date:	Sign:	Date:	Sign:
Date:	Sign:	Date:	Sign: