

New Zealand GAP Guide to the Land and Water Regional Plan Canterbury Region – Plan Change 5 (Version 1.1 – Jan 2019)

Contents:

1	Relevant Documents	2
2	Glossary	2
3	Purpose	2
4	Schedule 7: Farm Environment Plan Requirements	3
5	Schedule 7: Farm Environment Plan Targets and Objectives	7
6	Selwyn Te Waihora – Additional Requirements for Farm Environment Plans	16
7	Waitaki – Additional Requirements for Farm Environment Plans	18
9	Summary of Objectives for Farm Environment Plans in Canterbury region and sub-regions	20

1 Relevant Documents

- NZGAP EMS add-on checklist (v1.3 Jan 2019) – i.e. Farm Environment Plan (FEP) compliance checklist
- NGAP EMS add-on Implementation Guideline (v1.3 Jan 2019)
- NZGAP Environment Management System Templates (v1.1 Oct 2018)
- NZGAP Environment Management System Registration form (v3 Dec 2018)
- Proposed Plan Change 5 to the Canterbury Land and Water Regional Plan - Report and recommendations of the hearing commissioners APPENDIX B – Part 1

2 Glossary

- NZGAP – New Zealand Good Agriculture Practice
- EMS – Environment Management System
- FEP – Farm Environment Plan
- ECan – Environment Canterbury
- Checklist – NZGAP EMS add-on checklist (v1.3 Jan 2019)
- Templates – NZGAP Environment Management System Templates (v1.1 Oct 2018)

3 Purpose

This guide is for NZGAP growers, NZGAP auditors, and regulators in Canterbury Region. This guide demonstrates alignment of the New Zealand GAP (NZGAP) Environment Management System (EMS) add-on with schedule 7 (Farm Environment Plan) requirements of Plan Change 5 to the Canterbury Land and Water Regional Plan.

The EMS provides the assurance framework within which growers operate to meet the **minimum standards** as defined in schedule 7 and the EMS (whichever is greater). Where schedule 7 provides additional or more detailed requirements than the EMS, **the requirement is highlighted in yellow.**

4 Schedule 7: Farm Environment Plan Requirements

Definitions

In Schedule 7 the following definitions apply:

Management Area – means the list of topics areas of farm management practice as set out below:

- (a) Nutrients management
- (b) Irrigation management
- (c) Cultivation and soil structure management
- (d) Collected Animal Effluent and Solid Animal Waste
- (e) Waterbodies management (riparian areas, drains, rivers, lakes, wetlands)
- (f) Point sources – offal pits, farm rubbish pits, silage pits
- (g) Water use management (excluding water associated with irrigation) – stock water and wash-down water

Management Objective – means the overarching outcome sought in relation to each Management Area

Target – means a measurable, auditable statement that contributes to achievement of the Management Objective in each Management Area.¹²⁷

Part A – Farm Environment Plans

A Farm Environment Plan can be based on either of:

1. The material set out in Part B below; OR
2. Industry prepared Farm Environment Plan templates and guidance material that:
 - (a) includes the following minimum components:
 - (i) the matters set out in 1, 2, and 3, 4B and 5 of Part B below;

(ii) contains a methodology that will enable development of a plan that will identify actual and potential environmental effects and risks specific to the property, addresses those effects and risks and has a high likelihood of appropriately avoiding, remedying or mitigating those effects;

(iii) performance measures that are capable of being audited as set out in Part C below; and

(iv) matters or requirements set out in Part B of Schedule 7 that have been added as a result of a sub-region planning process; and¹²⁸.

(b) has been approved as meeting the criteria in (a) and being acceptable to the Canterbury Regional Council by the Chief Executive of the Canterbury Regional Council.

Part B – Farm Environment Plan Default Content

The plan requirements will apply to:

(a) a plan prepared for an individual property or farm enterprise; or

(b) a plan prepared for an individual property which is part of a collective of properties, including an irrigation scheme, principal water supplier, or an Industry Certification Scheme

The plan shall contain as a minimum:

Sch7 Ref	Sch7 Sub-Ref	Schedule 7 Requirements	EMS Ref	EMS requirements	EMS source
1		Property or farm enterprise details:	n/a	See below	n/a
	(a)	Physical address	n/a	Physical address	Checklist
	(b)	Description of the ownership and name of a contact person	n/a	Owner	Checklist
			n/a	Contact person	Checklist
	(c)	Legal description of the land and farm identifier	n/a	NZGAP number	Checklist
			n/a	Legal name	Checklist
2.		A map(s) or aerial photograph at a scale that clearly shows:	n/a	See below	n/a

Sch7 Ref	Sch7 Sub-Ref	Schedule 7 Requirements	EMS Ref	EMS requirements	EMS source
	(a)	The boundaries of the property or land areas comprising the farming enterprise.	5.1	Has an up to date property plan or map been prepared which details important site features as required by the local authority?	Checklist
			5A	Property boundaries (currently owned and leased land)	Templates
	(b)	The boundaries of the main land management units on the property or within the farming enterprise.	5A	Land management units (e.g. cropped areas)	Templates
	(c)	The location of permanent or intermittent rivers, streams, lakes, drains, ponds or wetlands.	5A	Permanent or intermittent rivers, streams, lakes, ponds, drains and wetlands	Templates
	(d)	The location of riparian vegetation and fences adjacent to water bodies.	5A	Riparian vegetation and barriers/fences adjacent to waterbodies	Templates
	(e)	The location on all waterways where stock access or crossing occurs.	5A	Other features (please specify):	Templates
	(f)	The location of any areas within or adjoining the property that are identified in a District Plan as "significant indigenous biodiversity".	5A	Any significant areas as defined by the local authority (see local authority mapping: e.g. significant indigenous biodiversity areas, cultural landscape values management area)	Templates
	(g)	The location of any critical source areas for phosphorus or sediment loss for any part of the property including any land within the High Runoff Risk Phosphorus Zone.	5A	Potential critical sources (point and area) for contaminants (e.g. erosion risk, fert storage)	Templates
	(h)	The location of flood protection or erosion control assets, including flood protection vegetation.	5A	Other features (please specify):	Templates
	(i)	Public access routes or access routes used to maintain the rivers, streams, or drains.	5A	Other features (please specify):	Templates
3		A list of all Canterbury Regional Council resource consents held for the property or farming enterprise.	n/a	Resource Consents	Checklist
4A		An assessment of the adverse environmental effects and risks associated with the farming activities and how the identified effects and risks will be managed, including irrigation, application of nutrients, effluent	6.5	Has an assessment of the risks of soil erosion and sediment loss been completed (Template 6B)?	Checklist
			7.2	Has the risk of nutrient loss been assessed prior to application of nutrients (Template 7B)?	Checklist

Sch7 Ref	Sch7 Sub-Ref	Schedule 7 Requirements	EMS Ref	EMS requirements	EMS source
		application, stock exclusion from waterways, offal pits and farm rubbish pits.	7.3	Are fertilisers handled, stored and used to minimise the risk of spillage and contamination of the environment and water sources?	Checklist
			8.2	Has an environmental risk assessment been completed for all water uses (Template 8A)?	Checklist
			8.3	Are measures implemented or planned to ensure that water use is optimised and risks to the environment are minimised (Template 8B)?	Checklist
			9.1	Has an environmental assessment of waterways, drains and point sources (e.g. waste storage) been undertaken to determine if there are any risks of contamination from the property?	Checklist
4B	(a)	nutrient budgets which show the nitrogen baseline and nitrogen loss calculation for the property or farming enterprise; and	7.12	Has a Nitrogen Loss Baseline been calculated for the property where required by the local authority?	Checklist
			7.10	Has a current nutrient budget been prepared for the property, where required, using a tool approved by the local authority (e.g. OVERSEER, NCheck)?	Checklist
	(b)	a report from the Farm Portal which shows for any property or farming enterprise the Baseline GMP Loss Rate and Good Management Practice Loss Rate or in those circumstances provided for in this Plan, the Equivalent Baseline GMP Loss Rate and Equivalent Good Management Practice Loss Rate	7.13	Does the current nutrient budget show compliance with regulatory limits (e.g. local limit or resource consent limit)?	Checklist

5 Schedule 7: Farm Environment Plan Targets and Objectives

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
5A		ALL	Objectives and Targets	A description of how each of the following objectives and targets for each Management Area, where relevant, will, be met and the specific actions that will be implemented to attain the targets	n/a	See below	n/a
	(1)	Nutrients	Objective	Use nutrients efficiently and minimise nutrient losses to water.	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
					7.7	Are measures implemented or planned to improve nutrient uptake and minimise nutrient loss (Template 7C)?	Checklist
					7C	Nutrient Loss – Control Measures and Action Plan	Templates
	(2)	Nutrients	Objective	Nutrient losses do not exceed consented nitrogen loss limits.	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
					7.13	Does the current nutrient budget show compliance with regulatory limits (e.g. local limit or resource consent limit)?	Checklist
	(1) (a)	Nutrients	Target	Nitrogen losses from farming activities are at or below the Baseline GMP Loss Rate or Good Management Practice Loss Rates (whichever is the lesser) for the property; or	7.13	Does the current nutrient budget show compliance with regulatory limits (e.g. local limit or resource consent limit)?	Checklist
	(1) (b)	Nutrients	Target	Nitrogen losses from farming activities are at or below the consented nitrogen loss limits.	7.13	Does the current nutrient budget show compliance with regulatory limits (e.g. local limit or resource consent limit)?	Checklist

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
	(1A)	Nutrients	Target	Available nitrogen loss mitigation measures (excluding those associated with irrigation, fertiliser or effluent management) are implemented.	7C	Nutrient loss control measures and action plan	Templates
	(2)	Nutrients	Target	Phosphorus and sediment losses from farming activities are minimised.	6.8	Are appropriate measures implemented or planned to reduce or minimise sediment loss (Template 6C)?	Checklist
					6C	Soil erosion and sediment loss - Control Measures and Action Plan	Templates
					7.7	Are measures implemented or planned to improve nutrient uptake and minimise nutrient loss (Template 7C)?	Checklist
					7C	Nutrient Loss – Control Measures and Action Plan	Templates
	(3)	Nutrients	Target	Manage the amount, timing and application and rate of fertiliser inputs applied does not exceed the agronomic requirements of the crop to match the predicted plant requirements and minimise nutrient losses	7.4	Are nutrients applied relative to the predicted uptake levels of the plant from planting to maturity?	Checklist
	(4)	Nutrients	Target	Store and load fertiliser to minimise the risk of spillage, leaching and loss into water bodies.	7.3	Are fertilisers handled, stored and used to minimise the risk of spillage and contamination of the environment and water sources?	Checklist
5B		Irrigation	Objective	The amount and timing of irrigation is managed to meet plant demands, minimise risk of leaching and runoff and ensure efficient water use	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
					8.3	Are measures implemented or planned to ensure that water use is optimised	Checklist

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
						and risks to the environment are minimised (Template 8B)?	
	(1)	Irrigation	Target	New irrigation systems are designed, and installed in accordance with industry codes of practice and standards.	8.5	Has major new irrigation infrastructure been designed and installed in accordance with industry standards and codes of practice?	Checklist
	(2)	Irrigation	Target	The performance of irrigation systems, is assessed annually and irrigation systems are maintained and operated to apply irrigation water at their optimal efficiency.	8.4	Is the irrigation system assessed, maintained, calibrated and evaluated to ensure optimal performance?	Checklist
	(3)	Irrigation	Target	The timing and depth of irrigation water applied takes account of crop requirements and is justified through soil moisture monitoring or soil water budgets and climatic information.	8B	Irrigation scheduling is undertaken using a crop model or tied into a soil moisture monitoring system	Templates
	(4)	Irrigation	Target	Staff are trained in the operation, maintenance and use of irrigation systems.	3.4	Have environmental training needs of relevant staff been identified and has training been provided or planned where necessary?	Checklist
5C		Cultivation and Soil Structures Management	Objective	The physical and biological condition of soils is maintained or improved in order to minimise the movement of sediment, phosphorus and other contaminants to waterways.	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
					6.3	Have techniques been used to maintain or improve soil quality and structure as well as reduce compaction?	Checklist
					6.4	Are measures implemented or planned to maintain or increase soil organic matter and improve soil biological health?	Checklist

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
	(1)	Cultivation and Soil Structures Management	Target	Farming activities are managed so as to not exacerbate erosion.	6.7	Are appropriate measures implemented or planned to reduce or minimise the risk of soil erosion (Template 6C)?	Checklist
					6.8	Are appropriate measures implemented or planned to reduce or minimise sediment loss (Template 6C)?	Checklist
					6C	Soil erosion and sediment loss - Control Measures and Action Plan	Templates
	(2)	Cultivation and Soil Structures Management	Target	Farming practices are implemented that optimise infiltration of water into the soil profile and minimise run-off of water, sediment loss and erosion.	6.3	Have techniques been used to maintain or improve soil quality and structure as well as reduce compaction?	Checklist
					6.7	Are appropriate measures implemented or planned to reduce or minimise the risk of soil erosion (Template 6C)?	Checklist
					6.8	Are appropriate measures implemented or planned to reduce or minimise sediment loss (Template 6C)?	Checklist
					6C	Soil erosion and sediment loss - Control Measures and Action Plan	Templates
5D		Animal Effluent and Solid Animal Waste	Objective	Animal effluent and solid animal waste is managed to minimise nutrient leaching and run-off.	n/a	n/a	n/a
	(1)	Animal Effluent and Solid Animal Waste	Target	Effluent systems meet industry Codes of Practice or an equivalent standard. ¹⁶⁵	n/a	n/a	n/a
	(2)	Animal Effluent and	Target	The timing and rate of application of effluent and solid animal waste to land is	n/a	n/a	n/a

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
		Solid Animal Waste		managed so as to minimise the risk of contamination of groundwater or surface water bodies.			
	(3)	Animal Effluent and Solid Animal Waste	Target	Sufficient and suitable storage is available to enable animal effluent and wash-down water to be stored when soil conditions are unsuitable for application.	n/a	n/a	n/a
	(4)	Animal Effluent and Solid Animal Waste	Target	Staff are trained in the operation, maintenance and use of effluent storage and application systems.	n/a	n/a	n/a
5E		Waterbodies (wetlands, riparian areas, drains, rivers, lakes)	Objective	Wetlands, riparian areas and the margins of surface waterbodies are managed to avoid damage to the bed and margins of the water body, and to avoid the direct input of nutrients, sediment, and microbial pathogens.	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
					9.2	Are waterways protected from contamination using appropriate containment, barriers, setbacks, buffers or riparian planting?	Checklist
					9.3	If livestock are part of cropping rotations, are they excluded from applicable waterways where required?	Checklist
					9.4	Are waterways and drains managed to protect mahinga kai values (traditional value of food resources)?	Checklist
	(1)	Waterbodies (wetlands, riparian	Target	Stock are excluded from waterbodies in accordance with regional council rules or any granted resource consent.	9.3	If livestock are part of cropping rotations, are they excluded from applicable waterways where required?	Checklist

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
		areas, drains, rivers, lakes)					
	(2)	Waterbodies (wetlands, riparian areas, drains, rivers, lakes)	Target	Vegetated riparian margins of sufficient width are maintained to minimise nutrient, sediment and microbial pathogen losses to waterbodies.	9.2	Are waterways protected from contamination using appropriate containment, barriers, setbacks, buffers or riparian planting?	Checklist
	(3)	Waterbodies (wetlands, riparian areas, drains, rivers, lakes)	Target	Farm tracks, gateways, water troughs, self-feeding areas, stock camps wallows and other farming activities that are potential sources of sediment, nutrient and microbial loss are located so as to minimise the risks to surface water quality.	n/a	n/a	n/a
	(4)	Waterbodies (wetlands, riparian areas, drains, rivers, lakes)	Target	Mahinga kai values are protected as a result of measures taken to protect and enhance water quality and stream health.	9.3	Are waterways and drains managed to protect mahinga kai values (traditional value of food resources)?	Checklist
					9A	Mahinga kai and biodiversity: Risk Assessment, Control Measures and Actions	Templates
5F		Point Sources (offal pits, farm rubbish pits, silage pits)	Objective	The number and location of pits are managed to minimise risks to health and water quality.	9.1	Has an environmental assessment of waterways, drains and point sources (e.g. waste storage) been undertaken to determine if there are any risks of contamination from the property?	Checklist
	(1)	Point Sources (offal pits, farm rubbish pits, silage pits)	Target	All on-farm silage, offal pit and rubbish dump discharges are managed to avoid direct discharges of contaminants to groundwater or surface water.	9.2	Are waterways protected from contamination using appropriate containment, barriers, setbacks, buffers or riparian planting?	Templates

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
5G		Water-use (excluding irrigation water)	Objective	To use water efficiently ensuring that actual use of water is monitored and efficient.	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
					8.3	Are measures implemented or planned to ensure that water use is optimised and risks to the environment are minimised (Template 8B)?	Checklist
	(1)	Water-use (excluding irrigation water)	Target	Actual water use is efficient for the end use.	8.3	Are measures implemented or planned to ensure that water use is optimised and risks to the environment are minimised (Template 8B)?	Checklist
					8B	Non-irrigation water is used efficiently (e.g. wash water)	Templates
n/a	(a)	All management areas	All Objectives and Targets	The plan shall include for each objective and target in section 5 above: detail commensurate with the scale of the environmental effects and risks;	6.5	Has an assessment of the risks of soil erosion and sediment loss been completed (Template 6B)?	Checklist
					6B	Risk of soil erosion and sediment loss – Paddock Assessment	Templates
					6.6	Is the risk of soil erosion assessed prior to carrying out all field operations?	Checklist
					7.2	Has the risk of nutrient loss been assessed prior to application of nutrients (Template 7B)?	Checklist
					7B	Assessing the risk of nutrient Loss	Templates
					8.2	Has an environmental risk assessment been completed for all water uses (Template 8A)?	Checklist
					8A	Assessing the environmental risk of water use	Templates

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
					9.1	Has an environmental assessment of waterways, drains and point sources (e.g. waste storage) been undertaken to determine if there are any risks of contamination from the property?	Checklist
					9A	Mahinga Kai and Biodiversity: Risk assessment, control measures and action plan	Templates
	(b)	All management areas	All objectives and Targets	The plan shall include for each objective and target in section 5 above: a description of the actions and Good Management Practices (and a timeframe within which those actions will be completed) that will be implemented to achieve the objectives and targets.	6C	Soil erosion and sediment loss - Control Measures and Action Plan	Templates
					7C	Nutrient Loss – Control Measures and Action Plan	Templates
					8B	Water use – Control Measures and Action Plan	Templates
					9A	Mahinga Kai and Biodiversity: Risk assessment, control measures and action plan	Templates
					10.1	Has an adequate environmental action plan been developed which includes short-term and long-term actions (Template 10A plus 6C, 7C and 8B)?	Checklist
					10A	Environmental Action Plan: Other actions	Templates
	(c)	All management areas	All objectives and Targets	The plan shall include for each objective and target in section 5 above: records required to be kept for measuring performance and achievement attainment of the targets and objectives.	10.1	Has an adequate environmental action plan been developed which includes short-term and long-term actions (Template 10A plus 6C, 7C and 8B)?	Checklist
					10.2	Have processes been established to ensure that the actions identified in the	Checklist

Sch7 Ref	Sch7 Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
						environmental action plan are undertaken?	
					10.3	Have identified actions been completed to an acceptable standard in accordance with the timelines in the environmental action plan?	Checklist
					10.6	Are existing environmental mitigations managed and maintained to ensure their ongoing effectiveness?	Checklist
					10.6	Has the EMS been reviewed at planned intervals (at least annually), to support continuous improvement and ensure its continuing suitability, adequacy and effectiveness?	Checklist
6		Nutrient Budgets	n/a	Nutrient budgets, prepared by a suitably qualified person using the Overseer nutrient budget model, or equivalent model approved by the Chief Executive of Environment Canterbury, for each of the identified land management units and the overall farm or farm enterprise.	3.3	If a nutrient budget has been prepared for the property, has it been completed by a certified nutrient management adviser where required?	Checklist
					7.10	Has a current nutrient budget been prepared for the property, where required, using a tool approved by the local authority (e.g. OVERSEER, NCheck)?	Checklist

6 Selwyn Te Waihora – Additional Requirements for Farm Environment Plans

Within the Selwyn Te Waihora sub-region the following additional requirements for Farm Environment Plans apply:

Ref	Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
		Mapping	n/a	include a map(s) or aerial photograph at a scale that clearly shows the location of any known mahinga kai, wāhi tapu or wāhi tāonga within any property or farming enterprise located in the Cultural Landscape/Values Management Area.	5A	Features to be included on the property plan (map): Any significant areas as defined by the local authority (see local authority mapping: e.g. significant indigenous biodiversity areas, cultural landscape values management area)	Templates
2.		Nutrients	Objective	To maximise the nutrient use efficiency while minimising nutrient losses to water by:	n/a	n/a	n/a
	(a)	Nutrients	Objective	minimising the loss of phosphorus and sediment within the Phosphorus Sediment Risk Area as shown in the Planning Maps; and	6.5	Has an assessment of the risks of soil erosion and sediment loss been completed (Template 6B)?	Checklist
					6B	Risk of soil erosion and sediment loss – Paddock Assessment	Templates
					6.7	Are appropriate measures implemented or planned to reduce or minimise the risk of soil erosion (Template 6C)?	Checklist
					6.8	Are appropriate measures implemented or planned to reduce or minimise sediment loss (Template 6C)?	Checklist
					6C	Soil erosion and sediment loss - Control Measures and Action Plan	Templates
	(b)	Nutrients	Objective	achieving good management practice in respect of nutrient losses; and	7.7	Are measures implemented or planned to improve nutrient uptake and minimise nutrient loss (Template 7C)?	Checklist
					7C	Nutrient Loss – Control Measures and Action Plan	Templates

Ref	Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
					7.13	Does the current nutrient budget show compliance with regulatory limits (e.g. local limit or resource consent limit)?	Checklist
	(c)	Nutrients	Objective	managing the discharge from drains within the Lake area of the Cultural Landscape/Values Management Area; and	9.4	Are waterways and drains managed to protect mahinga kai values (traditional value of food resources)?	Checklist
	(d)	Nutrients	Objective	further reducing the nitrogen loss calculation from 2022 where a property or farming enterprise's nitrogen loss calculation is greater than 15kg of nitrogen per hectare per annum.	7.13	Does the current nutrient budget show compliance with regulatory limits (e.g. local limit or resource consent limit)?	Checklist

7 Waitaki – Additional Requirements for Farm Environment Plans

Within the Waitaki sub-region the following additional requirements for Farm Environment Plans apply:

Ref	Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
n/a	n/a	Mahinga kai	Objective	To protect mahinga kai values	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
n/a		Mahinga kai	Target	Mahinga kai values of surface waterbodies on the property are recognised by achieving other objectives and targets in the Farm Environment Plan, and in addition by:	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
					2.4	Have targets been set/adopted to reduce environmental impact and enhance the surrounding environment?	Checklist
					10.3	Have identified actions been completed to an acceptable standard in accordance with the timelines in the environmental action plan?	Checklist
	(a)	Mahinga kai	Target	maintaining existing indigenous vegetation in accordance with relevant regional council and district council vegetation clearance rules or any granted resource consent;	9A	Native vegetation and/or habitats are protected	Templates
	(b)	Mahinga kai	Target	identifying opportunities to undertake additional plantings of indigenous vegetation, and carrying out and managing any additional plantings in accordance with regional council guidelines for riparian planting;	9A	Planting of native vegetation in shelterbelts or riparian areas	Templates
	(c)	Mahinga kai	Target	undertaking farming activities in a manner that minimises adverse effects on existing indigenous vegetation and on any	9A	Mahinga kai values are considered when implementing other environmental actions (e.g. erosion and sediment control, riparian areas)	Templates

Ref	Sub-Ref	Management Area	Objective / Target	Requirement	EMS Ref	EMS requirement	EMS source
				additional plantings of indigenous riparian vegetation; and	9A	Waterway, drain management and vegetation clearance is carried out following good management practice	Templates
	(d)			managing pest plants in accordance with regional council rules	9A	Pests are managed according to local authority rules	Templates
n/a	n/a	In-stream biodiversity values	Objective	To protect and enhance in-stream biodiversity values.	2.3	Have short and long-term environmental objectives been established for the relevant environmental aspects?	Checklist
	(1)	In-stream biodiversity values	Target	On the map or aerial photograph of waterbodies required under Part A of this Schedule, specify the location of any spring heads, wetlands and spring-fed streams on the property or within the farming enterprise to recognise their high instream biodiversity values.	5A	Has the location of any spring heads, wetlands or spring-fed streams on the property map been identified where required by the local authority?	Templates
	(2)	In-stream biodiversity values	Target	Prioritise achievement of the targets for Management Area: Waterbody Management for any spring heads, wetlands and spring-fed streams so as to protect and enhance the instream biodiversity values.	10.1	Has an adequate environmental action plan been developed which includes short-term and long-term actions (Template 10A plus 6C, 7C and 8B)?	Checklist
					10.2	Have processes been established to ensure that the actions identified in the environmental action plan are undertaken?	Checklist

9 Summary of Objectives for Farm Environment Plans in Canterbury region and sub-regions

The following objectives summary is relevant for control point 2.3. of the EMS checklist “Have short and long-term environmental objectives been established for the relevant environmental aspects?”.

Ref	Sub-Ref	Management area	Objective	Notes
5A	(1)	Nutrients	Use nutrients efficiently and minimise nutrient losses to water.	
	(2)	Nutrients	Nutrient losses do not exceed consented nitrogen loss limits.	
5B		Irrigation	The amount and timing of irrigation is managed to meet plant demands, minimise risk of leaching and runoff and ensure efficient water use	
5C		Cultivation and Soil Structures Management	The physical and biological condition of soils is maintained or improved in order to minimise the movement of sediment, phosphorus and other contaminants to waterways.	
5D		Animal Effluent and Solid Animal Waste	Animal effluent and solid animal waste is managed to minimise nutrient leaching and run-off.	n/a for hort
5E		Waterbodies (wetlands, riparian areas, drains, rivers, lakes)	Wetlands, riparian areas and the margins of surface waterbodies are managed to avoid damage to the bed and margins of the water body, and to avoid the direct input of nutrients, sediment, and microbial pathogens.	
5F		Point Sources (offal pits, farm rubbish pits, silage pits)	The number and location of pits are managed to minimise risks to health and water quality.	
5G		Water-use (excluding irrigation water)	To use water efficiently ensuring that actual use of water is monitored and efficient.	
Selwyn Te Waihora – Additional Requirements				
7.		Nutrients	To maximise the nutrient use efficiency while minimising nutrient losses to water by:	
	(a)	Nutrients	minimising the loss of phosphorus and sediment within the Phosphorus Sediment Risk Area as shown in the Planning Maps; and	
	(b)	Nutrients	achieving good management practice in respect of nutrient losses; and	
	(c)	Nutrients	managing the discharge from drains within the Lake area of the Cultural Landscape/Values Management Area; and	
	(d)	Nutrients	further reducing the nitrogen loss calculation from 2022 where a property or farming enterprise’s nitrogen loss calculation is greater than 15kg of nitrogen per hectare per annum.	
Waitaki – Additional Requirements				
n/a	n/a	Mahinga kai	To protect mahinga kai values.	
n/a	n/a	In-stream biodiversity values	To protect and enhance in-stream biodiversity values.	