Number	AS91931	Version	3
			-

Achievement Standard

Subject Re	ference	Agricultural and Horticultural Science 1.4				
Title		Demonstrate understanding of environmental sustainability in primary production management practices				
Level	1	Credits	4	Asse	essment	External
Subfield	Science					
Domain Agricultural and Horticultural Science						
Status		Approved		Status date		December 2023
Planned re	view date	December	2028	Date version pub	lished	December 2023

Purpose Statement

Students are able to demonstrate understanding of environmental sustainability in primary production management practices.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
• Demonstrate understanding of environmental sustainability in primary production management practices	 Explain environmental sustainability in primary production management practices 	 Evaluate environmental sustainability in primary production management practices

Explanatory Notes

- 1 Demonstrate understanding of environmental sustainability in primary production management practices involves:
 - describing the implications of environmental sustainability for primary production management practices
 - supporting the description with examples from the primary production management practices.

Explain environmental sustainability in primary production management practices involves:

• explaining how the implications of environmental sustainability affect decisions on the use of the primary production management practices.

Evaluate environmental sustainability in primary production management practices involves:

- evaluating how the implications of environmental sustainability influence the choice of primary production management practices.
- 2 As part of the evidence provided, students must show understanding of a Māori concept in the context of environmental sustainability management practices in primary production.

Examples of a Māori concept include:

- tūhononga
- manaakitanga
- tiakitanga.
- 3 *Environmental sustainability* is the ability to maintain an ecological balance in the environment and conserve natural resources to support the wellbeing of current and future generations.
- 4 For the purpose of this achievement standard, the *implications of environmental sustainability* are positive and/or negative impacts on the environment as a result of primary production management practices.

Examples of the implications of environmental sustainability include:

- quality of waterways
- soil quality
- climate change
- change to biodiversity of organisms.
- 5 *Primary production management practices* are actions that are part of the primary production of an animal or plant product.

Examples of primary production management practices include:

- irrigation
- fertiliser application
- pest control
- riparian planting.
- 6 Refer to the NCEA <u>glossary</u> for Māori, Pacific, and further subject-specific terms and concepts.
- 7 This achievement standard is derived from the Science Learning Area at Level 6 of *The New Zealand Curriculum*: Learning Media, Ministry of Education, 2007.

Replacement Information

This achievement standard and AS91928-AS91930 replaced AS90155, AS90157, AS90160, and AS90918-AS90924.

Quality Assurance

- 1 Schools and institutions must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 2 Schools and institutions with consent to assess must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference 0233