

3

91532



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

SUPERVISOR'S USE ONLY

Level 3 Agricultural and Horticultural Science, 2013

91532 Analyse a New Zealand primary production environmental issue

2.00 pm Monday 2 December 2013

Credits: Five

Achievement	Achievement with Merit	Achievement with Excellence
Analyse a New Zealand primary production environmental issue.	Critically analyse a New Zealand primary production environmental issue.	Comprehensively analyse a New Zealand primary production environmental issue.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–8 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL

ASSESSOR'S USE ONLY

You are advised to spend 60 minutes completing the task in this booklet.

INSTRUCTIONS

New Zealand's land-based production sectors rely on healthy soils and access to quality water. Choose ONE of the environmental issues below to complete the task in this booklet. Carefully read all parts of the task, and Resources A and B below, before making your selection.

Environmental issue	Tick ONE (✓)
Water quality and/or quantity	
Nutrient management	

Resource A – Water quality and/or quantity

“The quality and quantity of our water provides a key competitive advantage for New

*For copyright reasons, this resource cannot be reproduced here. See:
<http://www.mpi.govt.nz/environment-natural-resources/water>*

stock water, and many farmers also have ready access to water from rivers, lakes and wells.”

Resource B – Nutrient management

“Effective nutrient management is a key part of ‘smart’ production. Excessive nutrient use

*For copyright reasons, this resource cannot be reproduced here. See:
source (adapted): <http://www.mpi.govt.nz/news-resources/news/dairying>*

both the environment and the producer’s bottom line.”

TASK: ANALYSIS OF A PRIMARY PRODUCTION ENVIRONMENTAL ISSUE

ASSESSOR'S
USE ONLY

- (a) (i) Describe the environmental issue you have selected on page 2 with reference to how a specific production system can contribute to that issue.

- (ii) Explain in detail at least TWO negative environmental impacts and ONE negative economic *OR* social impact that can be caused by the issue described above.

- (b) Briefly describe TWO different recommended courses of action that New Zealand producers could implement to prevent or minimise the **environmental** impacts of the issue selected, and explain how each course of action would achieve this.

Course of action (1): _____

Course of action (2): _____

