

<b>Title</b>	<b>Demonstrate knowledge of land based treatment systems in a primary products food processing operation</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This entry-level unit standard is for people who are responsible for applying environmental practices in their work area, in a primary products food processing operation.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: the mechanisms of land-based wastewater treatment systems; sampling and monitoring requirements for land based wastewater treatment systems; and land based wastewater treatment systems operation and design, used in a primary products food processing operation.</p>
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<b>Classification</b>	Primary Products Food Processing > Primary Products Food Processing - Operational Skills
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<b>Available grade</b>	Achieved
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### Explanatory notes

- 1 Legislation relevant to this unit standard includes but is not limited to – Hazardous Substances and New Organisms Act 1996, Health and Safety in Employment Act 1992, Health and Safety in Employment Regulations 1995, Resource Management Act 1991.
  - 2 Definitions  
*Organisational requirements* – instructions to staff on policies and procedures which are documented in memo, electronic or manual format and are available in the workplace.  
*Primary products food processing operation* – covers a meat processing, dairy processing, seafood or baking yeasts manufacturing operation.
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### Outcomes and evidence requirements

#### Outcome 1

Demonstrate knowledge of the soil requirements and the effects of wastewater irrigation in land-based wastewater treatment systems used in a primary products food processing operation.

**Evidence requirements**

- 1.1 Soil requirements for, and treatment processes occurring in, land-based treatment of wastewater are identified and described in terms of suitability and structure.
- 1.2 Effects of wastewater irrigation are explained in terms of ground water, surface water, soil and atmosphere.

**Outcome 2**

Demonstrate knowledge of sampling and monitoring requirements for land based wastewater treatment systems used in a primary products food processing operation.

**Evidence requirements**

- 2.1 Process of monitoring land based wastewater treatment systems is described in terms of organisational requirements.
- 2.2 Process of environmental sampling carried out on land based wastewater treatment systems is described in terms of organisational requirements.

**Outcome 3**

Demonstrate knowledge of land based wastewater treatment systems operation and design used in a primary products food processing operation.

**Evidence requirements**

- 3.1 Process of managing and integrating land based wastewater treatment systems with farming operations is described in terms of the effects on the primary products food processing operation and the environment.
- 3.2 Factors to take into account when designing an irrigation system for land based wastewater treatment are identified and described in terms of their effect on the design process.

<b>Replacement information</b>	This unit standard replaced unit standard 19328.
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<b>Planned review date</b>	31 December 2020
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**Last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	17 September 2015	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0033
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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**Comments on this unit standard**

Please contact the Primary Industry Training Organisation [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.