

Title	Demonstrate and apply knowledge of dewatering, pump maintenance, and settling ponds at an extractive site		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the water management system at an extractive site, and of the measurement of the volume and quality of water to be discharged from that site; demonstrate knowledge of pump maintenance; and demonstrate knowledge of maintaining drains and settling ponds in accordance with resource consent conditions and company procedures.
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Classification	Extractive Industries > Surface Extraction
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Available grade	Achieved
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Guidance Information

- 1 Performance of the outcomes of this unit standard must comply with the following:
 - Health and Safety at Work Act 2015 (HSW);
 - Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;
 - Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016;
 - Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016;
 - approved codes of practice issued pursuant to the HSW Act;
 - Territorial and/or Local Authority water quality standards;
 - Resource Management Act 1991;
 - Plant maintenance manuals.
- 2 Any new, amended, or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 3 Definitions

Company procedures mean the documented methods for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.
- 4 This unit standard is intended for, but is not limited to, workplace assessment.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the water management system at an extractive site, and of the measurement of the volume and quality of water to be discharged from that site.

Performance criteria

- 1.1 The measurement of volume of water to be discharged is described and evaluated in accordance with resource consent conditions and company procedures.
- 1.2 The measurement of water quality to be discharged is described and evaluated in accordance with resource consent conditions and company procedures.
- 1.3 The location of the discharge point is identified in accordance with company procedures.
- 1.4 The main components of the site water management system are located and described in terms of their role within the system.
- 1.5 Site surface control, runoff, and diversion to treatment system are described in accordance with company procedures.

Range may include but is not limited to – water tables, sumps, culverts, channels, pumps, settling ponds.
- 1.6 Containment, uplifting, and disposal of silt particles and fines is carried out in accordance with company procedures.

Range may include but is not limited to – tip, landscaping, mixing, spreading, cleaning out settling ponds.

Outcome 2

Demonstrate knowledge of pump maintenance.

Performance criteria

- 2.1 The process for checking pumps is explained in accordance with manufacturer's specifications.
- 2.2 The process for carrying out maintenance on pumps or enlisting specialist help is explained in accordance with company procedures and manufacturer's specifications.

Outcome 3

Demonstrate knowledge of maintaining drains and settling ponds in accordance with resource consent conditions and company procedures.

Performance criteria

- 3.1 The reasons for and method of pond cleaning are explained in accordance with resource consent conditions and company procedures.
- 3.2 The reasons for and method of silt storage or silt use are explained in accordance with resource consent conditions and company procedures.
- 3.3 The reasons for and method of maintaining drains and open channels are explained in accordance with resource consent conditions and company procedures.

Replacement information	This unit standard replaced unit standard 8894.
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Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 January 2005	31 December 2017
Rollover and Revision	2	16 July 2010	31 December 2017
Review	3	18 June 2015	N/A
Rollover and Revision	4	25 January 2018	N/A

Consent and Moderation Requirements (CMR) reference	0114
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.