

Title	Demonstrate and apply knowledge of procedures to minimise environmental impact at an extraction site		
Level	5	Credits	7

Purpose	People credited with this unit standard are able to: assess potential impact of a surface extraction site on the environment; demonstrate knowledge of the process for seeking resource consent for a surface extraction site; develop production operating procedures for a surface site; and check and review operational compliance with established procedures for a surface extraction site.
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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 enactments and guidelines:
Resource Management Act 1991;
Occupational Safety and Health guidelines, such as those available at <http://www.osh.govt.nz/order/catalogue/index.shtml#mj>.
- 2 All statutory and authority requirements must include the latest amendments.
- 3 Definition
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 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

Assess potential impact of a surface extraction site on the environment.

Performance criteria

- 1.1 Potential resultant changes to the environment from extractive operations are established in accordance with the requirements of the Resource Management Act 1991 and company procedures.

Range may include but is not limited to – streams, rivers, sea, urban area, rural area, storm water culverts.

1.2 Potential sources of pollution from extractive operations are identified in accordance with the requirements of the Resource Management Act 1991 and company procedures.

Range may include but is not limited to – dust, noise, vibration, wash water, storm water runoff, settling pond residue.

1.3 Possible contingency plans and alternative procedures are noted in accordance with company procedures.

Outcome 2

Demonstrate knowledge of the process for seeking resource consent for a surface extraction site.

Performance criteria

2.1 Criteria for resource consent, related to the project, are established, and explained in accordance with the requirements of the Resource Management Act 1991, and territorial and/or local authority requirements.

Range may include but is not limited to – dust emission limits, noise limits, vibration limits (blasting), purity of discharged wash water.

2.2 The process for application for resource consent is explained in terms of territorial and/or local authority requirements.

Range may include but is not limited to – Regional Council, District Councils, Iwi, Ministry of Economic Development, NZ Transport Agency, Department of Conservation, other associated users of the area.

2.3 Documentation for an application is described and requirements itemised in terms of the site specifications.

Outcome 3

Develop production operating procedures for a surface site.

Performance criteria

3.1 Production operating procedures are drafted in accordance with manufacturer's instructions and company production requirements.

3.2 Production operating procedures are finalised in accordance with the resource consent conditions.

Range may include but is not limited to – wash water quality at discharge, dust emissions, storm water runoff control, visual impact controls, traffic controls.

Outcome 4

Check and review operational compliance with established procedures for a surface extraction site.

Performance criteria

4.1 Surface production operations are checked in accordance with company procedures and the Resource Management Act 1991.

Range may include but is not limited to – observation, testing, auditing, training, consent conditions.

4.2 Reviews of established procedures are carried out, and alterations implemented, where required, in accordance with company procedures and the requirements of the Resource Management Act 1991.

Range may include but is not limited to – non-compliance with consent conditions, remedial procedures, safeguards, checklists.

Replacement information	This unit standard replaced unit standard 8910.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 January 2005	31 December 2020
Rollover and Revision	2	16 July 2010	31 December 2020
Review	3	18 June 2015	31 December 2020
Rollover	4	20 July 2017	31 December 2020
Rollover	5	23 July 2020	31 December 2023

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>.