

# **Fact sheet**

### Principal hazard - ground or strata failure (surface)

October 2024



The Resources Regulator has developed a broad-brush risk assessment and a program of bowties to review principal hazard and control plan topics.

The bowtie program identified the material unwanted events (MUE) and critical controls to prevent serious injury or death of mine workers.

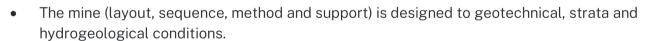
The bowtie for the principal hazard topic of ground or strata failure identified 3 MUEs and the critical controls for assessment programs. This fact sheet provides information related to the assessment program focusing on the MUE – uncontrolled movement of ground related to all types of surface mining operations.

# Principal hazard – ground or strata failure (surface)

MUE – uncontrolled movement of ground (surface)



The Regulator's assessment program will focus on the following critical controls to prevent an uncontrolled movement of ground related to all types of surface mining operations:



- Dump design.
- Drill and blast management.
- Water management systems.
- Workers are restricted/removed from high-risk areas.

#### Considerations

Mine operators should consider the MUEs above as a minimum and ensure that the review of critical controls to prevent serious injury or death is included within the site principal hazard management plans and associated documentation.

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Relevant safety alerts, safety bulletins and information resources published by the Regulator include:

Date published	Reference	Title
April 2023	Consolidated report Tier 1 quarries and surface metalliferous mines	Ground or strata failure – slope stability – tier 1 quarries and surface metalliferous mines
February 2023	Compliance priority report – surface coal mines	Surface coal – windrows and edge protection standards
November 2022	Consolidated report Small mines	Ground or strata failure – slope stability – small mines
December 2021	Consolidated report surface coal mines	Ground or strata failure – slope stability – open cut coal mines

References		
Program type	PH-0402	
Principal hazard	0402 Ground or strata failure (surface)	
MUE number	MUE02	

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