Working together on health and safety

Event: AusIMM Presentation Date: 31 August – 03 September 2015

Name: Tony Forster Title: Chief Inspector -Extractives

WORKSAFE NEW ZEALAND **EVERYONE** WHO GOES **TO WORK** COMES HOME HEALTHY AND SAFE







Not the first mining disaster!

Kiwi "No. 8 wire" and "She'll be right" attitude effects on health and safety in the workplace???





Mining Tragedies in new Zealand

New Zealand history of underground coal mine tragedies including:

Mine	Fatalities
1879 Kaitangata mine	34 deaths
1896 Brunner mine	65 deaths
1914 Huntly, Ralph's colliery	43 deaths
1939 Huntly, Glen Afton No. 1 mine	11 deaths
1967 Strongman mine	19 deaths





Pike River Mine

Atarau, Greymouth, New Zealand















Pike River Coal

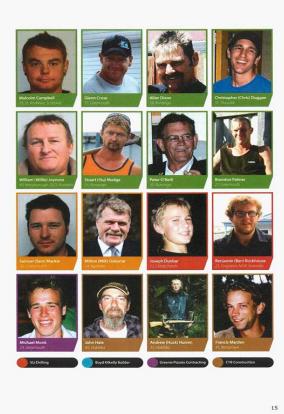
thard (Rolls) Holling



Subtech Services



14



V 는 NEW ZEALAND



Royal Commission Finding

- Royal Commission savage lessons from the past, learnt at the cost of lives, had not been retained.
- On average these mining tragedies could be plotted in sequences repeated at approximately 20 year intervals
- Each generation experienced its own 'disaster', but innate human capacity to forget, move on and erase unpleasant memories, creates the foundation for the next inevitable chapter in a repeating cycle.



Chronology

- Explosion at Pike River mine on 19th November 2010
- MBIE High Hazards Unit formed (November 2011)
- Royal Commission report on the Pike River published (October 2012)
- Appointment of Chief Mines Inspector (January 2013)
 - Establish HHU Mines Inspectorate 'Intervention Strategy' (re-named in 2015 'Targeted Assessment' inspection process)
 - Develop a strategic and targeted safety critical topic inspection programme (later aligned to PHMP /PCP)
- Independent Task Force on Workplace Health and Safety report (April 2013)
- Crown Minerals Amendment Act 2013 (May 2013)



- Engage with 'Well Connected Alliance' on Auckland Waterview TBM Project (May 2013)
- Extractives sector formed (mines, tunnels, quarries, alluvial mines (September 2013)
- First multi-agency CIMS emergency exercise at Huntly East (September 2013)
- HSE (Mining Operations and Quarrying Operations) Regulations 2013 (December 2013)
- Mines Rescue Act 2013 established (December 2013)
- Underground Mines Emergency Protocol established (December 2013)
- Codes on 'Fire or Explosion' and 'Ventilation' released (February 2014)
- WorkSafe New Zealand established (December 2013)



- Extractives Industry Advisory Group established (July 2014)
- UMEP multi agency emergency exercise at Waterview TBM Tunnel (July 2014)
- First leg of Waterview TBM tunnel completed (September 2014)
- Board of Examiners established (October 2014)
- UMEP multi agency emergency exercise at Oceana Gold (October 2014)
- National Mines Rescue contest Waihi gold mine (November 2014)
- Gazette new Unit Standards Certificates of Competence (December 2014)



- Develop National Multi Agency Emergency Response model (rail / road tunnels)
- Develop professional working relationship with Trade Unions Industry Health and Safety Representative appointed (Stephen Woods)
- Develop professional working relationship with Strattera / MinEx / AQA / IOQ / West Coast Minerals / Gold Miners Association / Drillers Association
- Develop Targeted Assessment Legislative Compliance tools
- Work with MBIE on review of 'Mining Regulations (Phase 1 / Phase 2)
- Work with NZP&M on National Mine Plan Repository
- Work with NZP&M and Local / Regional Authorities on joint initiatives (e.g. West Coast inspections)



Extractives Industry Forums

- Greymouth (June)
- Tauranga (July)
- Alexandra (August)
- Whangarei (September)
- Ashburton & Hawkes Bay (October)
- Invercargill (November)



- Guidance on 'Health and Safety at Opencast Mines, Alluvial Mines and Quarries' (July)
- 'Google Map' created location of quarries in New Zealand (July)
- PHMP 'ground control' interpretive guidance issued (August)
- Panels of Examiners (to be) established (November)
- Pike River Mine drift (to be) sealed (November)
- 5th Anniversary Pike River



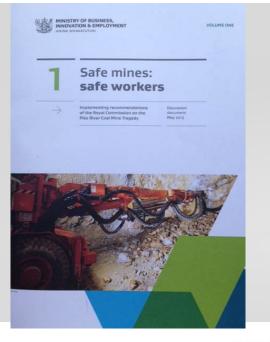
WHAT CHANGES HAVE TAKEN PLACE?

- A new regulator WorkSafe New Zealand
- The High Hazards and Specialist Services Unit
- New mining regulations, codes and guidance
- Wider legislative changes
- New Zealand mining board of examiners
- Underground mines emergency protocol



Mining regulations

- Safety by design
- Systems based approach
- Principal hazards
- Principal control plans
- Industry health and safety representatives







2013/483

Health and Safety in Employment (Mining Operations and Quarrying Operations) Regulations 2013

Jerry Mateparae, Governor-General

Order in Council

At Wellington this 9th day of December 2013

Present: The Right Hon John Key presiding in Council

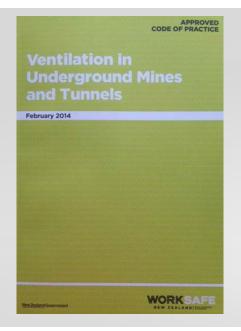
Pursuant to section 21 of the Health and Safety in Employment Act 1992, His Excellency the Governor-General, acting on the advice and with the consent of the Executive Council and in accordance with a recommendation of the Minister of Labour, makes the following regulations.

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Codes and guidance

- Development project running through to 2017
- Two codes, one guidance published, four codes under construction (2015)
- Fully consultative process





Crown Minerals Amendment Act 2013

- Direct link between mining permits and health and safety
- Mining must not be carried out before WorkSafe has given approval
- WorkSafe and New Zealand Petroleum and Minerals must share relevant information



The Health and Safety at Work Act

- Bill is currently before parliament
- Expected to come into force in 2016
- Positive duty of due diligence on company directors
- "PCBU" clarifies laws around who is a duty holder



Mines Rescue Act 2013



- Enables a fairer levy system
- Enshrines emergency management protocol in law
- Gives legal recognition to incident controllers



Underground mines emergency protocol

- Based on coordinated incident management system (CIMS)
- Places an industry representative in charge of rescue/recovery operation
- Provides strategic support from government agencies
- Tested in 2013 and two further live exercises





Inaugural new Zealand Mines Rescue Competition

- The key objective was to understand New Zealand's collective strengths and weaknesses in mines rescue capability was
- Assisted by Australian personnel from three states, and a UK consultant
- Four teams competed
- Four events fitness, underground search and rescue, unexpected underground event, theory/benchman





NEW ZEALAND

New Zealand mining board of examiners

- Put into place to oversee the competency framework
- Certificates of competence were gazetted in December 2014 to reflect the provisions in the new mining regulations
- CPD requirements to be put into place to ensure professional practice is maintained and up to date





GOOD PRACTIC GUIDELINE

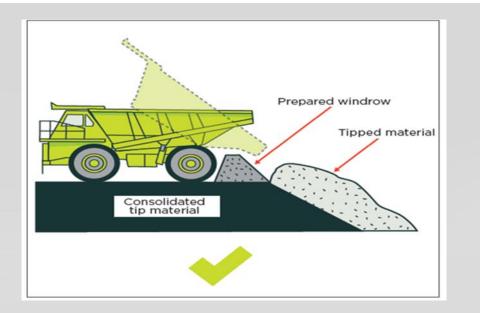
Health and Safety at Opencast Mines, Alluvial Mines and Quarries

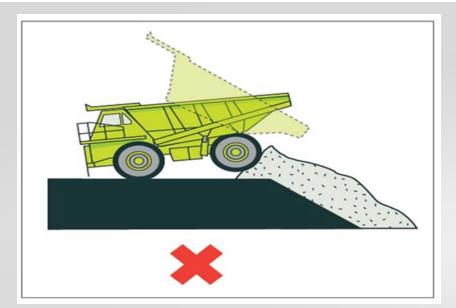
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End tipping





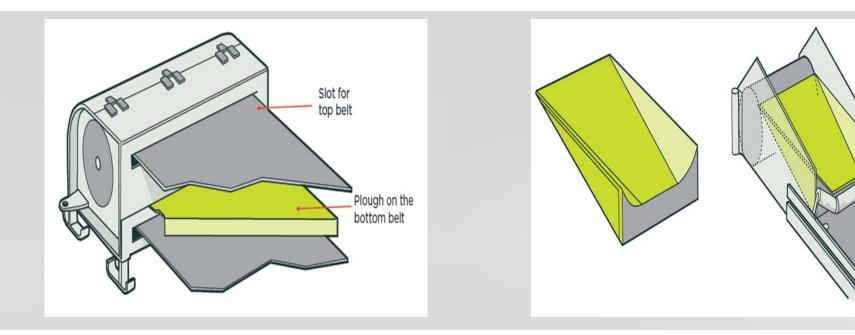


End Tipping Hazards



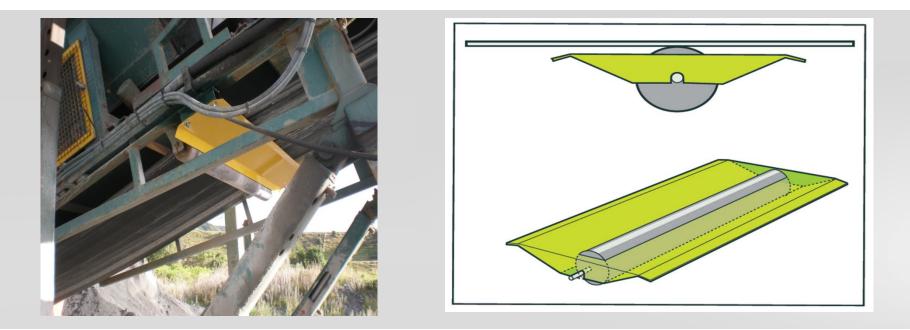


Nip Guarding



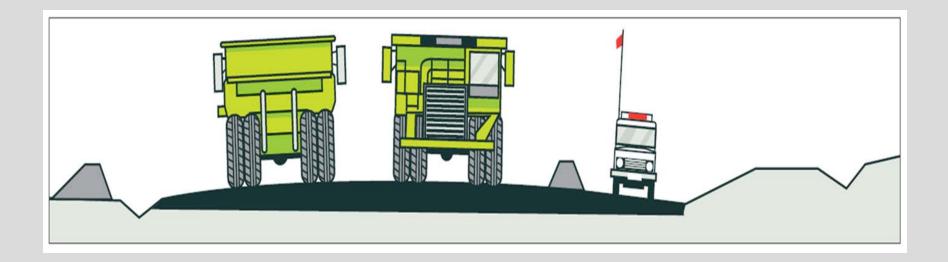


Flat plate conveyor guards





Vehicle interaction



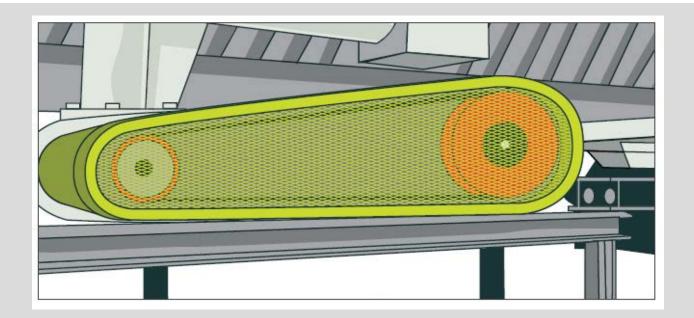


Interaction hazards



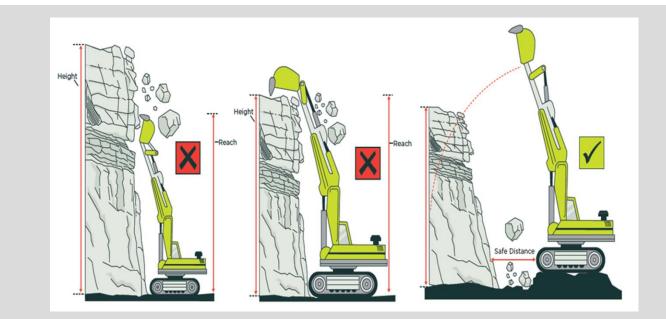


guarding





Quarry guidance



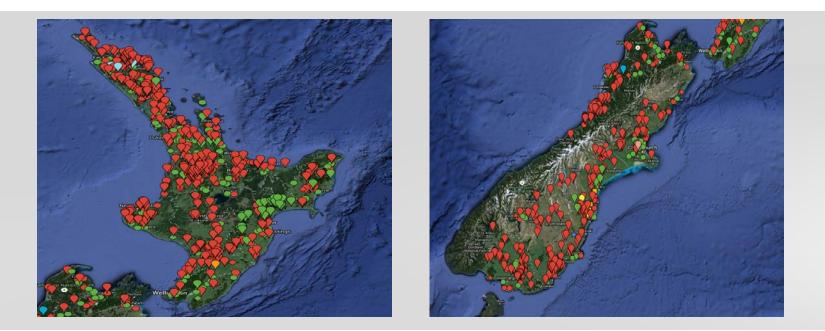


Safer working faces





The quarries 'map'



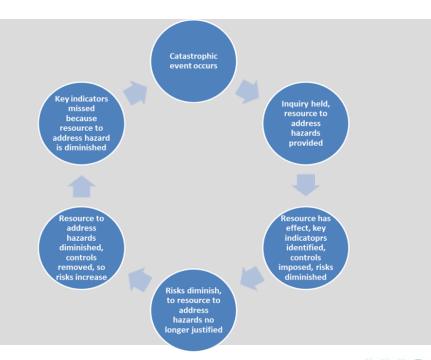


CONTINUING PROFESSIONAL DEVELOPMENT

- Regulations require all CoC holders to renew CoCs every five years
- Board of Examiners will renew CoCs if CPD requirements met
- WorkSafe sets requirements in a New Zealand Gazette notice
- 1 January 2016 start



Cycle of disaster





19 NOVEMBER 2010

• "The further away we move from the last disaster, the closer we move to the next one"



EVERYONE WHO GOES TO WORK COMES HOME HEALTHY AND SAFE



New Zealand Government