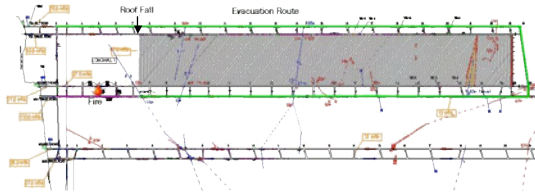


## OBJECTIVES

- ✦ Test self escape, including change-over process;
- ✦ Test incident management team process;
- ✦ Test fire fighting procedures and first response;
- ✦ Test mine interaction with outside agencies (police and hospital);
- ✦ Test interaction with media;
- ✦ Review of QMRS procedures and performance; and
- ✦ Develop a Recognised Standard for the Conduct of Emergency Exercises.

## SCENARIO

- ✦ The scenario for the exercise was a major fire on the pump station which rapidly spread across the cut-through in the maingate eliminating escape out of the maingate along the travel road and conveyor road.
- ✦ Escape through the longwall was blocked by a "roof fall".
- ✦ The only option was to escape inbye past the longwall and out of maingate 2, however, there were insufficient SCSRs for all of the men to escape this way.



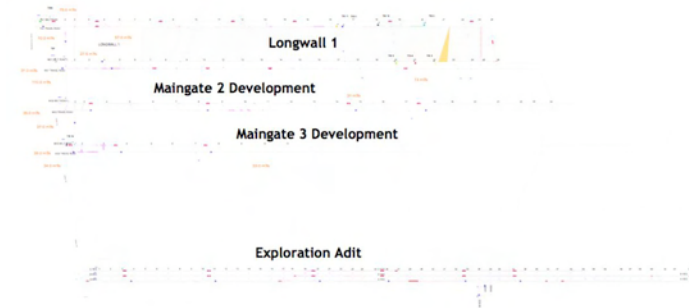
## LEVEL 1 MINE EXECUTIVE COMMITTEE

- ✦ Martin Watkinson, Michael Driscoll, Larry Ryan, Tony Kelly & Kirrily Star – Department of Natural Resources, Mines and Water
- ✦ Greg Dalliston – CFMEU
- ✦ Chris Gilbert & Michelle Clarke – Broadmeadow Coal Mine
- ✦ Steve Bullough, Andrew Clough & Alex Neels – Industry
- ✦ Mick Farrag & Seamus Devlin – Queensland & NSW Mines Rescue
- ✦ David Cliff – MISHC
- ✦ Kevin Clough & David MacPherson – Queensland & NSW Mines Inspectorate
- ✦ Lachlan Cunningham – Solid Energy, New Zealand
- ✦ Anna Duffield & Mika Thuijs – NRMW & Longwall News (media personnel)

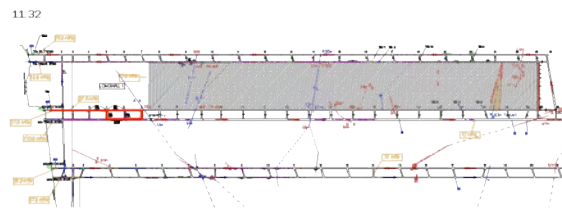
## EXERCISE LOGISTICS

ACTIVITY	PERSON DAYS
Site Visit & Scoping	6
Planning & Modelling	30
Core Team Meeting	10
First Full Team	50
Exercise	80
Reporting	25
<b>Total</b>	<b>201</b>

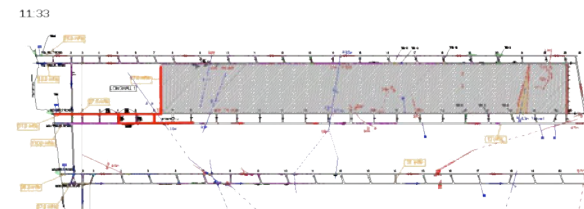
## BROADMEADOW MINE PLAN



## ANTICIPATED SMOKE SPREAD – LONGWALL PANELS

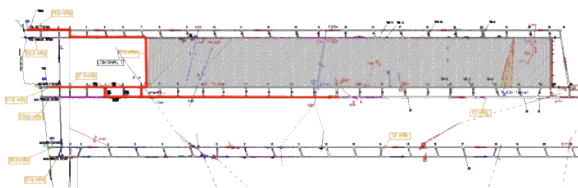


## ANTICIPATED SMOKE SPREAD – LONGWALL PANELS



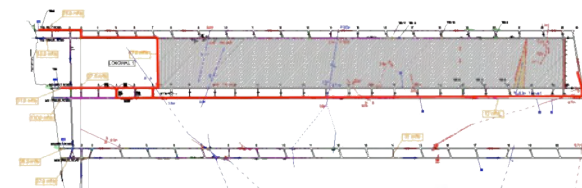
## ANTICIPATED SMOKE SPREAD – LONGWALL PANELS

11:40



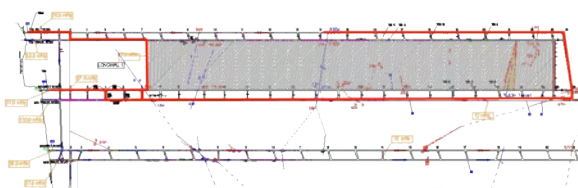
## ANTICIPATED SMOKE SPREAD – LONGWALL PANELS

11:50



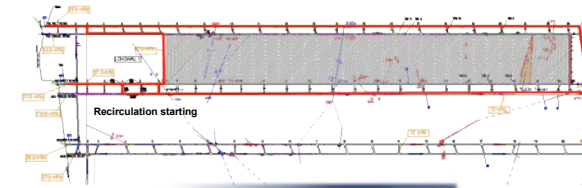
## ANTICIPATED SMOKE SPREAD – LONGWALL PANELS

12:00



## ANTICIPATED SMOKE SPREAD – LONGWALL PANELS

12:15



## OBSERVATIONS

- ✦ Broadmeadow's staff responded in a professional manner throughout the exercise scenario.
- ✦ There are serious issues concerning the wearing and change-over of SCSRs.
- ✦ There was no first response.
- ✦ The incident management process was disjointed.

## POLICE, COMMUNITY & MEDIA

### POLICE & COMMUNITY

- ✦ Police responded to call out.
- ✦ Had little knowledge of mining conditions.
- ✦ Mines need to build relationships with police, religious leaders, doctors, etc.
- ✦ Invite these people to your site and show them the operations.
- ✦ Explain the requirements in an emergency.
- ✦ Hospital interaction not tested.

### MEDIA

- ✦ Was handled well.
- ✦ Mines need to ensure that briefing information is provided.
- ✦ Mines need to clearly identify who the media liaison person is.

## QLD MINES RESCUE SERVICE

- ✦ Takes around 2 hours to be on-site
- ✦ Deployment of teams takes approximately 5 hours (exercise experience)
- ✦ Need to develop a strategy for the first 2 hours.
- ✦ First and ongoing response is required.

## RECOMMENDATIONS

### FIRST RESPONSE

- ✦ Industry needs to seriously address the issue of first response, including:
  - Clearly identifying what is first response;
  - Identifying duties for first response;
  - What equipment is required for first response;
  - What training is required for first response; and
  - Any fire fighting training and other associated training that may be identified should be undertaken **ASAP**. Many mine sites, Broadmeadow included, do not permit the lighting of fires on site.

## RECOMMENDATIONS

- ✦ Improved training in the donning and use of SCSRs as indicated by previous level 1 exercises and highlighted recently by the USA.
- ✦ Implement a competency based training regime.
- ✦ Ensure that all mineworkers have used a real SCSR or a training rescuer.
- ✦ The option of installing “change-over” stations, or equivalent must be reviewed.

## RECOMMENDATIONS

### INCIDENT MANAGEMENT PROCESS

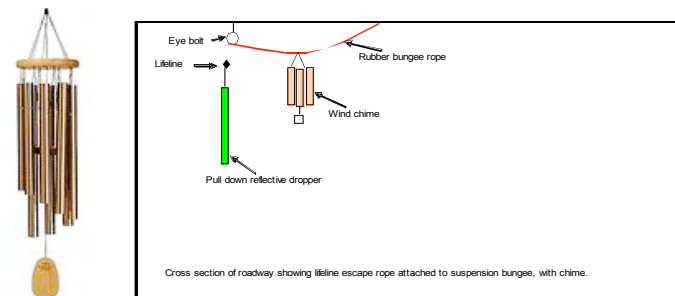
- ✦ Some mines have adopted the Incident Control System (ICS) or Mine Emergency Management System (MEMS).
- ✦ All mines need to clearly evaluate which system they are going to use (including the traditional IMT).
- ✦ Each mine must ensure that their staff are trained, practiced and competent to fulfil the roles as identified in their own system.

## RECOMMENDATIONS

**All of the recommendations within the report need to be evaluated by whole-of-industry to see if they are applicable at your mine site.**

## RECOMMENDATIONS

Simple recommendations such as the “wind chimes” to assist in locating cache's are cheap, easy to install and can have a major impact on the evacuation process.



*Another one to the Kiwis!*

***"Our losses shall not be in vain,  
we shall learn and prevent"***



***"We fail to respect those we have lost by repeating the  
failures that they gave their lives to teach us"***



***"May all those lost to mining leave a legacy of  
knowledge whereby their industry can keep their  
mates safe."***

Gerry Gibb, SafetyWise Solutions



### **Cameron Roberts Experiences During Evacuation**

- No leader
- Could not talk to decide plan
- Issue at 20 minutes with self rescuer (Sauna)
- Heat build up in the rescuer during use
- Could not see
- Evacuation route/water