

SAFER Planning Workshop Report

Nelson Tasman CDEM Group Workshop 16 February

Summary:

This was the 4th of the six CDEM Group-based workshops for Project AF8. The workshop included approximately 70 participants from key local stakeholder organisations, eliciting a significant amount of useful material for the project through a highly interactive, productive, and at times entertaining day.

The approach taken was somewhat more systematic than some other workshops, which added to the value of the day. Another important distinction was the use of a “Science / Impact Intelligence” syndicate, bringing together unitary authority, consultant and university hazard analysts – something to be considered in later planning.

The workshop syndicates took a relatively broad approach to identifying, understanding and meeting the needs of isolated parts of the Group area, where needs were assumed to be most marked, as well as urban areas vulnerable to infrastructure damage and land instability. The need for reconnaissance and situational awareness in a rapidly unfolding disaster was important throughout the workshop. The “Welfare Operations Team (WOT)” approach used in Nelson Tasman appears considerably more appropriate to communities and visitors sheltering and supporting themselves in-place, rather than the Civil Defence / Welfare Centre strategy taken elsewhere.

Most cross-CDEM Group boundary issues were in relation to evacuation of injured, visitors, and vulnerable residents, into the district from more damaged Group areas elsewhere. Support to impacted isolated communities in Nelson Tasman, potentially more readily accessed from Marlborough was an issue of some considerable discussion. The need to manage fuel, medical supplies, food and emergency housing in area, isolated by the impacts of the quake and aftershocks, rated highly, as it has in all workshops, although perhaps more so here due to the role of the Port of Nelson as a nationally critical fuel off-loading and storage facility.

Gaps and opportunities tended to revolve around response staff resourcing, locally and more widely, and taking a strategic approach to ensure those involved in future responses are adequately prepared to do so. A need for improved CDEM connection with the local iwi groups, prior to any major emergency, was highlighted. The experience provided a valuable problem-solving focus for collaboration and relationship-building amongst key CDEM stakeholders and partner organisations in the Nelson Tasman CDEM Group area.

Venue:

The workshop was held at the Richmond Pentacostal Church. Briefings and most syndicate work took place in a meeting room which comfortably accommodated the everyone involved. Breakout rooms were not required, although impact and infrastructure maps were available in an adjacent room.

A good quality data projector and large screen were used throughout. Wifi was available to all participants.

Participants were divided into 6 pre-designated clusters of tables:

- EOC - Local Government
- Emergency Services
- Welfare Services
- Health Services
- Lifeline Utilities
- Science – Impact Intelligence

Programme:

The programme went entirely to plan. The day was very well received, enthusiastically approached, and productive for all involved. The workshop concluded at exactly 1600 hrs, with energy levels still high.

1000 – 1030	Workshop Initiation
1030 – 1130	Phase 1. Earthquake + Initial Actions. First 3 hours+
1130 – 1200	Scenario following Initial Action
1200 – 1230	Alpine Fault Science
1300 – 1345	Phase 2. Planning Next 72 Hours. Day 1 to 3
1345 – 1400	Scenario Update
1400 – 1500	Phase 3. Planning Next 72+ Hours. Day 4 to 7
1500 – 1600	Debrief – Gaps + Opportunities



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Outcomes Phase 1 – Initial Response.

EOC - Control

- Food, Shelter, Water
- Lifelines + Comms
- Medical + Public Health (disease)
- Isolation – esp Murchison
- PIM Messages + messengers

Resourcing of EOC

Assist capability – are we better deployed elsewhere

Strengthen Logistics + Intelligence Capability

Set-up regular expected communications externally

International liaison

Needs

Supply

1. Establish EOC / Authority
2. Staff capability / roles / tasks
3. Communications stocktake – National / Regional options

Many isolated communities – within isolated region

Managing resources: Fuel, Power, Food, Comms

- Rationing capability

Establish Civil Defence Centres + key information sites

Make contact with national / regional centres

Priority of response

Critical lifelines: Comms, Water, Fuel, Road

- What? Where? How long?

Support network for CDCs – sourcing material, rationalisation

Infrastructure integrity

Public health

Ongoing activity (seismic)

Support to isolated communities

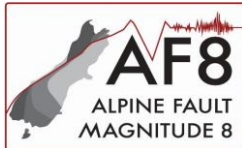
Tourist status (Incl overseas media)

Coordination of contributing stakeholders:

- MCDEM, Regional CDEM, NZTA, Network Tasman

Weather + impact intelligence



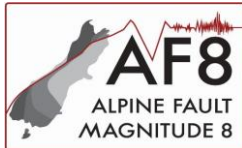


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Emergency Services

4. Significant Impacts + Needs
 - Isolation of region + smaller communities
 - Lack of access
 - Lack of communication
 - Lack of information
 - Infrastructure damage
 - Mass evacuations
 - Panic / irrational behaviour
5. High-Level Tasks
 - Situational awareness
 - Communication
 - Internal
 - External
 - Portable repeaters
 - Declaration
 - Sitrep
 - IAP
6. Response, Communication + Coordination Issues + Needs
 - Radios with local capability
 - Establishment of IMT
 - Key messages:
 - Damage
 - Aftershocks = Rockfalls, Building Collapse
7. Critical Resources Locally + Form Outside the Region
 - Secure food distribution
 - Secure fuel supplies
 - Additional staff from outside
 - Regions with availability
 - Lifelines
8. Cross-Boundary Issues
 - National / international resources
 - Prioritising where first



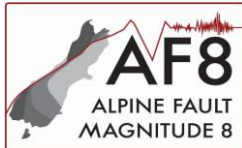
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Welfare Services

1. Issues

- Communications
 - Difficult to know who is in need
 - Challenges to get hold of social/welfare teams
 - Within own teams / agencies
- Transport
 - Ability to get help to areas of need
- Provision of support
 - People don't know where to get help
 - People turn up at CDC but no help there
- People
 - Aged community
 - Mass evacuations – people leave homes because of tsunami
 - Tourists / international students
 - Loss of life
 - Isolation
 - People trapped
 - Health / medical issues (loss of electricity)
 - Children at school / reconnected to families
 - Accommodation / Shelter
- Immediate Tasks (Gearing Up)
 - Get a clear picture / gather information about situation
 - Agencies / group check o own situation / BCP / staff
 - Link with EOC
 - Confirm resources available now
 - How many, what type of support, where (WCG + WOG)
 - Set up central point for responding groups / agencies to meet
 - Share social / welfare intel with EOC
 - Establish communication tree / regular meetings / reports
 - Prepare comms about what is available, where
- Assumption: Local welfare groups will activate
- Top Function Priorities
 - Needs Assessment
 - Shelter + Accommodation
 - Set up CDCs
 - Psychosocial support
 - Registration

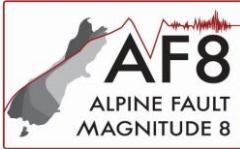


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Health Services

1. Significant Impacts + Needs
 - Reduced infrastructure:
 - Roads
 - Supply routes
 - Water supply
 - Sewerage
 - CDAC establishment in key areas
 - CDC established + function
 - Housing
 - Medical
 - Urgent DHB needs
 - Fuel for hospital generators
 - Water supplies
 - Coal
 - Contamination of recreational water
2. Response, Communication + Coordination issues + needs
 - Ongoing Public Health surveillance + messaging
 - Security
 - National / International resources + rotation
 - Psychosocial response
 - Rural areas resource needs
 - Weather impacts
 - Wet
 - Cold
 - Flooding
 - Shelter
3. High-Level Tasks
 - Operation of Wairau + Nelson hospitals
 - Provision of mortuary = containers
 - Tourist demands
 - Lifelines
 - Water
 - Sewerage
 - Power
 - Fuel
 - Communication
 - Review of declaration
 - Internal resources
 - Agency resources
 - Recovery
4. Critical Resources
 - Frontline Personnel
 - Specialist (i.e. Building Inspectors)
 - Scientist
 - Engineers
 - Psychosocial
 - Deployment priority
 - Infrastructure
 - Road repairs (temporary)
 - Water
 - Portable ablution
5. Cross-Boundary Issues
 - Medical response
 - Ongoing assistance to other regions
 - Resources – in + out

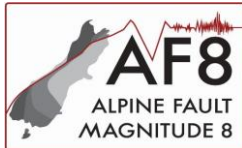


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Lifeline Utilities

- Staff + family welfare
 - Requirement for family plans
 - Role clarity – not names
 - Clear BCPs
 - Ensure Civil Defence can look after our welfare
 - Assess situation
 - Inspect assets
 - Check Staff
 - Establish what happened
 - Establish in “Civil Defence Centre”
 - Prioritise plans – resources
 - Establish + test comms
 - Establish CIMS model?
1. Significant Consequences:
 - Roads
 - Structures
 - Access to lifelines
 - Local / SH – unplanned evacuation
 - Utilities – no power
 - Chorus – no comms
 2. Response, Comms
 - Military? Fly over
 - Team up at Civil Defence Centre
 - Assess infrastructure
 - Delay in starting
 - Test comms
 - Contact NCMC
 3. High Level Tasks
 - What happened?
 - Build a picture of impacts
 - Aerial fly overs
 - Test + establish comms
 - Priortise resources
 4. Resources
 - Our teams?
 - Food supplies
 - Parts, etc
 - Geotechs
 - Engineers
 5. Cross-Boundary Issues
 - We need national resources



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Science – Impact Intelligence

Consequences

- Landslides dams
- Liquefaction
 - Airport
 - CBD
- Impact assessments
- Local damage – aftershocks
 - Port
 - Fuel tanks

Response

- Check buildings
- Structural engineers buildings
- USAR buildings
- Bridges

Science Needs

- Evacuate people at toe of slips?
- Mobilise reconnaissance:
 - Helicopters
 - Fixed wing
 - Mountain bikes
 - Boats
 - Science advisors

Communication

- Comms with GNS
- Reporting to NT EOC
- South Island relative damage

Coordination

- Comms w Marlborough / West Coast
- Need Nelson Tasman scientists
- National coordination?

High-Level Tasks

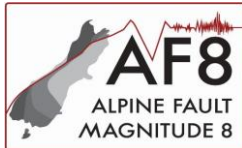
- Confirm location
- Rapid inventory of damage:
 - On-ground reports
 - Helicopters
 - Landslides
 - Road infrastructure
 - Check rivers
 - Catchments above towns
- Confirm tsunami or not

Critical Resources

- Reconnaissance tools
- Sat phones

Cross-Boundary Issues

- Coordination of SI-wide issues
 - Satellite photo acquisition
 - Impact assessments - Land slides
 - Geotech engineer



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Outcomes Phase 2.

EOC - Control

Consequences

- Situation getting worse
- Flooding, slips
- Lifelines - No expectation of power or road access
- Aftershocks – Severe –
 - More damage
 - St Arnaud no longer self-sufficient
 - Golden Bay, Totaranui, Nelson (Tahuna)
 - Matakaitaki risk of landslide dam failure to Murchison
- More evacuations
- Fuel
- Food, etc

Response

- Operational Information
- Evacuation Plans
- Food + water drops
- Emergency shelters
- Coordinate with NCMC
- Public Health

High-Level Tasks

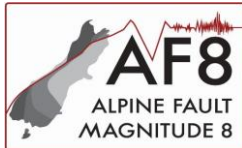
- Priorities:
 - Protect life
 - St Arnaud
 - Takaka – Geotech evaluation
 - Matakaitaki River
 - Approaching cold weather
 - Evaluate + prioritise communities
 - Identify air strips / transport access
 - Planning for sanitation / Public Health

Resourcing

- Fuel
- Transport
- People – Operational + IMT (EOC)
 - DoC
 - NZDF
 - Science

Cross Boundary

- Additional personnel (Operational + IMT)
 - From unaffected areas nationally
- Supply from Marlborough – especially to St Arnaud?

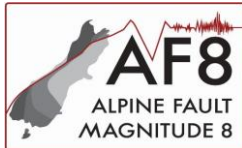


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Emergency Services

1. Significant Impacts + Needs
 - Triage centre
 - Relief Staff / Rotations
 - More information about areas
 - Richmond
 - Motueka Valley communities
 - Rural areas
 - Access issues
2. Response, Communication + Coordination Issues + Needs
 - Communication with National / International
 - Public Health Response
 - Sewer
 - Water (Boil water notices, etc)
 - Communicable diseases
 - Public Health messaging
 - Safe food
 - LPS
 - DVI
3. High-Level Tasks
 - Situation reports – Full
 - IAP - More detailed
 - Media – In / Out – Management
 - Public Health Response
 - CBAC
 - Health
 - Psychosocial response
 - Security
4. Critical Resources Locally + Form Outside the Region
 - National / International resources – arrival + management
 - Public Health personnel
 - Medical / Psychosocial response
5. Cross-Boundary Issues
 - Medical > Managing casualties from other regions
 - Resources

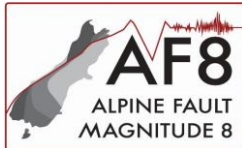


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Emergency Welfare

1. Consequences + Impacts
 - Numbers of households displaced 10-20% total
 - Some will self-place but others will need help
 - Displaced children not collected from school / safety of children
 - Tourists (with language barriers)
 - Effects of weather on current options
 - Essential needs (e.g. food) as reserves are used up (FMCG)
 - Areas of critical need – e.g. Murchison community
 - People still trapped / isolated on road (e.g. Owen River)
 - Potable water / infectious disease
2. Response, Communication + Coordination Issues + Needs
 - Need for hubs / CDCs
 - Providing assistance in situ
 - Reliance on Sat phones
 - Fatigue
 - Services based on needs assistance – capability for medium term
 - Border welfare – for people arriving from neighbouring regions
 - Connect with all available options – can't rely on anyone else to provide it
3. High-Level Tasks
 - Roster / staff availability
 - CDC / hub network + satellites
 - Activate WCG – high level planning
 - Activate WOT
 - Confirm manual comms / schedule of reports / reporting in
 - Focus on provision of shelter / food / water / CDCs
 - Continue to gather Intel / needs assessments
 - Establish manual comms into EOC as / when possible
4. Critical Resources
 - People / Staff
 - Food, water, shelter
 - Identify + manage voluntary contributions – goods / people
 - Communication / electricity
 - Buildings to put people in / buildings for CDCs
 - Health provisions
 - Portaloos / ablution blocks
 - Hand sanitisers
 - CDC design – animals, children (to school halls), sick people (at home)
5. Cross-Boundary Issues
 - Injured people from West Coast
 - Tourists
 - Rural sector

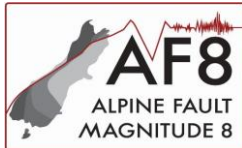


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Lifeline Utilities

1. Consequences + Impacts
 - No power
 - After shocks
 - Rain / weather > airport affected?
 - Public welfare deteriorating
 - Increased priority to support health
 - Continued confusion from lack of information
2. Response, Communication + Coordination Issues + Needs
 - Demand for information
 - Revise reconnaissance plan
 - Work to wider (national) plan
 - Determine local priorities
 - West coast link via SH6
 - Nelson – Blenheim SH6
 - Establish boat access
 - Cobb hydro dam?
3. Critical Resources
 - Overseas aircraft
 - National helicopters
 - Fuel – Identify options to get some in
 - Where to store information
 - Continue monitoring resources – Needed / Available
4. High-Level Tasks
 - Staff welfare
 - Safety around slips due aftershocks
 - Provide clear comms
 - Where to get water, supplies, etc.
 - Single source of truth – from CDEM
 - Information out on sanitation issues
 - Provide input into collaborative response
 - Focus on high priority asset reinstatement
 - Determine resource procurement agreements long-term
 - Focus on reinstating land-lines
5. Cross-Boundary Issues
 - Contractors to start nationally
 - Talk to Blenheim
 - Make it clear what help you need



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Outcomes Phase 3.

Emergency Welfare Services

Consequences

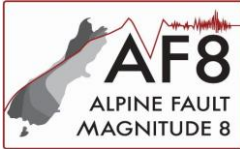
- Deaths / Casualties / Severe Injuries
- Psychosocial
- DVI
- Fatigue
- Increased incidence of infectious diseases
- Elderly + vulnerable families/children worsening
- More people displaced / people returning to homes
- People reconnecting
- Relocation of DCS/Welfare Centres (Contingency locations)
 - Consider response to spontaneous welfare centres, e.g. marae

High-Level Tasks

- Capacity + contingency planning – from reactive to proactive
- “WOT”
 - Outreach / needs assessment / attached to lifelines
 - Drop off information
 - Collection + reporting of information
 - Commandeer volunteers (if suitable)
 - Neighbourhood Support
 - Provide info to help people stay in place
- Connect with + respond to info from other functions
- Registration database – assists with injury / helps people connect
- Attach WOT to evacuation teams / lifelines / inspectors
- Recon of CDC / Welfare needs (as more displaced people present)
- Reconnect children with families
- Find out if there is response for tourists (MFaT)

Exit Strategy

- Priorities: St Arnaud, Cliffs, Murchison
- Comms / Intel in + out
- People, Food, Shelter, Loos, Meds, Sanitation



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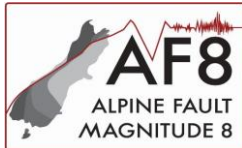
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Health Services

Priorities:

1. Evacuation + triage points
 - Linked to Primary Health Hubs
2. Welfare Centres + Temporary Accommodation
 - Direct injured + sick to treatment points
 - Health Messaging
 - i. Hands
 - ii. Disease
 - iii. Water
 - iv. Sewage
3. Staff Relief
4. Hospital / Health Hub
 - Request assistance from MoH-CDEM:
 - i. Water
 - ii. Fuel
 - iii. Laundry supplies
5. Meds + supplies
 - Medical caches
 - Prioritise needs / requirements
6. Primary Care
 - Support continued BAU services
7. Aged Residential Care
 - Coordinate across providers
 - Relocate as needed





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Science – Impact Intelligence

Consequences

- GNS prediction more known
- Potential propagation of fault ruptures
- Slips will be affected by aftershocks + heavy rainfall

High-Level Tasks

- Impact assessments
- Dams + their effects on people
- Damage assessments
- Dam checks
- Ongoing operational monitoring for safety

Response Coordination + Communication

- Local geotech advice provided
- Geotech response
 - Check imminent + changing threats
- Coordinate visits: Welfare, Geotech, Building Inspectors
- Accurate date-input coordination
- Go between GNS universities + EOC
- Local until national available – which could be weeks

Critical Resources

- Personnel + contact details
- Triage expertise for Geotech
- Transport to affected locations
- Technology + paper-based
- Sat-phones / comms
- Structural engineers with relevant experience

Cross-Boundary Issues

- Coordination of SI-wide issues
 - Satellite photo acquisition
 - Impact assessments
 - Land slides
 - Geotech engineers



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Gaps and Opportunities:

1. Building assessment – resourcing and management
2. Planning for building assessment response management accreditation process
 - Perhaps through district council or industry body
 - Contract + contractor management system in place for initial local response
3. Personal preparedness – requires considerably attention
4. Staff rotation + rosters
 - Will be bigger than SI + traditional approaches
 - i.e. using the private sector
5. What will impact of the event be on future / new business as usual
6. Time to prepare to manage emergencies is not when they occur
7. Functional, rather than as many full exercises, are needed to build capability
8. Take into account foreign nations intervening relatively directly
9. Need to ensure that mapping of needs + responses is effective
10. Iwi liaison is crucial



Nelson Tasman Project AF8 Planning Workshop



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Appendix 1. Organisations in Nelson Tasman Response Planning Workshop

EOC – Control

Nelson Tasman CDEM

Tasman District Council

Nelson City Council

Marlborough District CDEM

Emergency Services

NZ Fire

NZ Police

Rural Fire Network

Welfare Services

MSD

SPCA

CYF

Nelson Tasman CDEM

Science – Impact Intelligence

Tasman District Council

Nelson City Council

GNS Science

University of Canterbury

University of Otago

Health Services

St John

NMDHB

NZTA

IRD

CAB

Marlborough District Council

West Coast Regional Council

Lifeline Utilities

Mike Johnston Consultant

Port Nelson

BECA

Nelson Airport

Mt Campbell Network

Network Tasman Ltd