

# National Land Management Forum

## Terms of Reference

### Purpose

- To foster greater collaboration with land managers and representatives of land owners to create real and effective partnership arrangements that enhance the success of shared land management outcomes and enhance current and future operating policy and arrangements.

### Objectives

- Set the strategic frame for collaborative working and develop strong and meaningful partnerships across the sector
- Provide a forum for improving National Rural fire management safety, effectiveness and efficiency across Risk Reduction, Readiness, Response and Recovery (the 4R's)
- Agree shared outcomes based on likely future changes to the national hazard scape.
- Identify and promote continuous improvement opportunities based on shared information, intelligence and review.
- Generate co-ordination, co-operation, collaboration and communication between organisations represented on the Committee

### Guiding Principles

- Encouraging an environment where agencies can work, learn and innovate together in good faith with mutual respect. Agencies will work constructively and openly to achieve resolutions
- Seeking to collaborate and understand each other's priorities to ensure that our actions improve the protection of the environment and our communities from the effects of wildfire in New Zealand and remain committed to supporting each other and finding common ground where possible
- Working together on areas of shared interest, including sharing information, intelligence and good practice
- Think strategically, continuously monitoring National and Regional threats and seeking optimum effectiveness

### Deliverables

- Develop and deliver against shared outcomes through a joint workplan
- Ensure joint communications are developed after each meeting that can be shared internally with representatives organisations, their memberships and externally as required

### Out of scope

- Governance, management and decision making on any matters relating to the operations or administration of respective organisations.
- Responsibility for exercising statutory or regulatory powers or control of financial matters.

### Attendees and Frequency

- Meeting schedule and frequency to be agreed once the shared workplan is in place and reviewed annually
- Meetings are via a shared chair, agreed at the end of each meeting and communicated and updated in line with the workplan
- Current participants - FENZ, TuR, DOC, LINZ, LGNZ, Federated Farmers and Forestry Owners Association



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## **National Land Management Forum – Membership as of 20<sup>th</sup> December 2021**

### **Fire and Emergency New Zealand**

- Roxanne Hilliard – National Risk Reduction Manager (Chair)
- Tim Mitchell – Service Delivery Wildfire Manager
- Janaya Soma - Senior Communications Advisor

### **Department of Conservation**

- Ben Reddiex - Director National Operations - Issues & Programmes

### **Federated Farmers of NZ**

- Colin Hurst – Chairperson

### **Ministry for Primary Industries**

- Oliver Hendrickson - Director Forestry & Land Management

### **NZ Forest Owners Association**

- Sean McBride - Chairperson NZ Forest Owners Association Fire Committee

### **Local Government New Zealand**

- Jason Krupp – Deputy Chief Executive

### **Land Information New Zealand**

- Thomas Burns - Senior Portfolio Manager

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# Hui Miniti/Minutes

**Meeting: National Land Management Forum**

**Date: Monday 9 November 2020 11:00 – 12:00**

**Attendees: Kerry Gregory (Chair), Roxanne Hilliard, Oliver Hendrickson, Thomas Burns (on behalf of Jerome Sheppard), Mike Slater, Ben Reddiex, Colin Hurst, Sean McBride**

**Apologies: Jerome Sheppard, Jason Krupp**

## Agenda:

Item	Time	Topic	Lead
1	11:00	Karakia (below)	Chair
2	11:00 – 11:05	Welcome and Apologies	Chair
3	11:05 – 11:15	National Land Management Forum proposed Terms of Reference	Roxanne
4	11:15 – 11:30	Organisational Updates	Roxanne
5	11:30 – 12:00	Lake Ohau – Overview, next steps and proposed research/activities	Roxanne
6	12:00	Close	Chair

### Item 2 – Welcome and apologies

- The Chair welcomed the attendees and gave an overview of the purpose of the group which is to pull together inter-agency collaboration to enhance the success of shared land management outcomes and enhance current and future operating policy and arrangements.
- It was noted that the national Wildfire and Partnerships team within Fire and Emergency NZ has now been stood up.

### Item 3 - National Land Management Forum proposed Terms of Reference

- A ToR for the National Land Management Forum was drafted and circulated ahead of the meeting. There was a discussion on changes and improvements that could be made to the draft ToR, which included:
  - Being clear around what success looks like for this forum, the objectives, what each member will bring and how to ensure the group is kept accountable. This could be through a development of a work plan which will capture collaborative actions.

- Reflect that there will be a shared record or communication that can be circulated wider after the meeting.
- It was suggested and agreed that the chairing of these meetings will be shared.

**Action: Roxanne will make amendments to draft ToR and circulate for approval via email.**

#### **Item 4 - Organisational Updates**

- Attendees gave an overview of their organisation's current focus, which centred around preparing and managing risks for the upcoming fire season.
- It was noted that there is an opportunity with new Minister's to give some insight of this group, it's objectives and where it fits into the broader system. This briefing note can also be used to share with other organisations about the National Land Management Forum.

**Action: Roxanne to draft a briefing note that can be used for the Minister/any organisation around the National Land Management Forum and its objectives/where it fits in to the wider system.**

#### **Item 5 - Lake Ohau – Overview, next steps and proposed research/activities**

There was a presentation on the Lake Ohau village fire which started on Sunday 4<sup>th</sup> October.

##### **Overview**

- On Sunday 4 October at 3.06am a fast-moving fire swept through Ohau encroaching the village. The NIMT was deployed at 11am along with USAR
- All the residents self-evacuated successfully due largely to their pre-planning and local connectivity
- The total fire area is approximately 6000ha. Doc land comprises approximately 1550ha of that area (around 35% of the total)
- 48 dwellings and structures were destroyed and 6 were heavily damaged
- There are some stock losses across mainly 1 farm and significant fencing damage across the fire ground
- Multiple agencies were actively involved in the suppression of this fire for ten days
- Mopping up and monitoring of the fire ended on 26 October
- The origin and cause investigation is progressing. It will be some weeks before we complete our final determination.

##### **Capturing our learnings**

- On Sunday 11 October, Fire and Emergency deployed a team of technical experts including Fire Engineers, SCION Fire Scientists, National Risk Reduction Advisor and USAR personnel. Data and information were collected using the CSIRO model which enables future research and understanding of what occurred now and in the future.
- The research activities and forward work have been grouped into the following:

- Individual Risk Ownership (FENZ, Doc, TuR, FoA, Fed Farmers)
  - Resilient Communities (FENZ, Fed Farmers)
  - Built Environment (FENZ)
  - Resource Consent and TLA Advice/Information (FENZ, LINZ)
  - Fuels and Fire Behaviour (FENZ, DOC)
  - Wildfire Risk Assessment Methodologies (FENZ, DOC)
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- It was noted that there are already some valuable lessons learned from this event and on the best way to get these messages to the public.
  - It was noted that there isn't a clear understanding across land owners across the country of who owns the risks related to land management.
  - It was suggested that the group needs to work out how it will deliver and own the outcomes of the learnings. There needs to be consistent messaging through a collaborative approach so as not to create confusion for the public.
  - It was suggested that it would be valuable to identify some places to pilot the learnings to signal a direct response with some urgency.
  - There was a suggestion that individuals and communities could become aware and empowered regarding what their responsibilities are via community champions or land owners from Lake Ohau.

Action: Roxanne to send a note out to the meeting attendees on the topics of interest (priorities shown above) to get a contact from the agencies to connect with to ensure the next level of detail around the activity that needs to be done.

Action: Agencies to advise Roxanne of who those contacts were for the different priority areas they want to be involved in, so these groups can start pulling together the next level of detail around the activity that needs to be done.

- It was agreed that the group would next meet in early December.

Action: Emma to arrange National Land Management Forum meeting for early December.

The meeting finished at 12:05

**Meeting: National Land Management Forum**

**Date: Thursday 3 December 2020 10.30-11.30**

**Attendees:** Roxanne Hilliard (Chair), Thomas Burns & Lauren Smith (on behalf of Jerome Sheppard), Ben Reddiex, Colin Hurst, Sean McBride, Bronwyn Kropp (on behalf of Oliver Hendrickson), Grant Pearce (joined at 11am)

**Apologies:** Kerry Gregory, Mike Slater, Jason Krupp

**Agenda:**

Item	Time	Topic	Lead
1	10:30	Karakia (below)	Chair
2	10.30 – 10.35	Item 2a – Previous minutes Item 2b – ToR sign-off	Chair
3	10.35 – 10.50	Item 3 - Organisational / Member updates	All
4	10.50 – 11.00	Item 4 - Scoping of six themes, confirmation of interest and next steps	Roxanne
5	11.00 – 11.30	Item 5a - 2020/21 fire season outlook Item 5b - Case study being developed for Ohau	Grant Pearce (SCION)
6	11.35	Close	Chair

**Item 2a – Welcome, Apologies and Previous Minutes**

- The Chair welcomed the attendees and re-confirmed the intent of this forum and confirmed the agenda and minutes from the previous meeting.
- It was noted that the national Wildfire and Partnerships team within Fire and Emergency NZ has now been stood up.

**Item 2b - National Land Management Forum proposed Terms of Reference**

- ToR endorsed with two final changes; to add research to the point that articulates the 4 R's and add the joint logos to reflect the collaborate nature of the group.

**Action: TuR and LINZ to confirm the use of their various logo's - Bronwyn Kropp & Thomas Burns, Lauren Smith**

**Item 3 - Organisational / Member updates**

- Attendees gave an overview of their organisation's current focus, challenges and provided feedback on successful collaborations (e.g. summer campaign messaging, improved communication and information flow with the Service Delivery Partnerships Manager role in place).
- There is differing levels of knowledge, experience and responsibilities relating to fire reduction and land management across the forum and that increases the value of these meetings.

- It was noted that the Regional Land Management forums are very valuable and have been useful in bringing the right people together, but an online meeting on Teams or a similar platform is required.

Action: Future agenda items were agreed following updates and discussion;

- FENZ to provide online capability for Regional Land Management Forums – Roxanne
- TuR to lead a discussion on the opportunities and challenges relating to Carbon Forest's at the next National Forum – Oliver Hendrickson
- Other topics to be scheduled for February – June 2021; National Environmental Standards, Key Output / Learning Areas from Ohau Village Fire workplans – Roxanne (to co-ordinate)

#### **Item 4 - Scoping of six themes, confirmation of interest and next steps**

- Attendees agreed there is strong interest in this work and want to ensure the learnings and captured and shared.

Action: Attendees to advise Roxanne by the end of the week final names and involvement across the following themes:

- Individual Risk Ownership (FENZ, Doc, TuR, FoA, Fed Farmers)
- Resilient Communities (FENZ, Fed Farmers)
- Built Environment (FENZ)
- Resource Consent and TLA Advice/Information (FENZ, LINZ)
- Fuels and Fire Behaviour (FENZ, DOC)
- Wildfire Risk Assessment Methodologies (FENZ, DOC)

#### **Item 5a - 2020/21 fire season outlook (Grant Pearce)**

Grant Pearce joined the meeting and provided an overview of the fire season ahead. The long-term outlook and ongoing updates can be found:

- On the FENZ Portal <https://fireandemergency.nz/search?term=seasonal> or
- On the SCION website <https://www.scionresearch.com/rural-fire-research/tools/new-zealand-seasonal-fire-danger-outlooks/> nocache

Individuals can also sign up the SCION research blog to receive notifications on new posts <https://ruralfireresearch.wordpress.com/follow-our-blog/>

#### **Item 5b - Lake Ohau Case Study (Grant Pearce)**

Grant provided an overview of the focus areas for the case study, noting the significance of the event, the work done to date to collect information and data, and the need to understand the fire environment factors (especially weather and fuels) and how that contributed to the fire behaviour.

The meeting finished at 11.35

**Meeting: National Land Management Forum**

**Date: Tuesday 2 February 3pm – 4pm**

**Attendees:** Roxanne Hilliard (Chair), Oliver Hendrickson, Thomas Burns, Ben Reddiex, Colin Hurst, Sean McBride, Emma Francis (Secretariat)

**Apologies:** Jerome Sheppard, Mike Slater, Jason Krupp

**Agenda:**

Item	Time	Topic	Lead
1	3pm	Karakia (below)	Chair
2	3pm 3.10pm	Item 2 – Previous minutes & Actions	Chair
3	3.10pm – 3.40pm	Item 3 - Organisational / Member updates (Roxanne's update will include the scoping document on our six priorities)	All
4	3.40pm – 3.55pm	Wildfire Risk Profile (intro to the profile and discussion on the briefing document which will be sent post meeting)	Chair
5	3.55pm – 4pm	Agenda Items for next 5 meetings	Chair
6	4pm	Close	Chair

**Item 2 – Previous minutes and actions**

- The previous minutes were accepted as correct.
- It was noted that the FENZ communications team are currently working on adding the different organisational logos to the terms of reference.
- Region Managers have been asked to have a virtual option for members to join the Regional Land Management Forum meetings.
- At the last meeting there was a discussion around the risk and challenges that forum members wanted more discussion on – one of these was carbon forests. Oliver will circulate a one-pager on this and there will be an out-of-cycle meeting to discuss further.
- The scoping of 6 themes were landed on at the previous meeting, however those groups are still coming together and finalising the detail of the actions before they're circulated. These will be brought to the next meeting.

**Action: Oliver to circulate one pager on Carbon Forests and organise out of cycle meeting to discuss further.**

**ToR to be circulated with this meetings minutes**

**Item 3 – Organisational/Member updates**



- Attendees gave an overview of their organisation's current focus and challenges including:
  - MPI - Proposed changes to resource management system and recently released climate change commission report, which shows opportunities and threats for forestry.
  - Fed Farmers - Communication has been sent out to farmers around potential risks with the recent hot weather and a reminder to apply for permits from regional councils and Fire and Emergency.
  - LINZ are raising awareness and educating staff about fire. There is a part-funded AUT study on grasslands. The findings will be brought back for discussion at a future National Land Management Forum meeting, but in the meantime, members can connect with Thomas for further information.
  - FoA – Charter between FOA and FENZ is being reviewed. There is work happening to look at lessons learned opportunities post incidents.
  - DOC – There is ongoing support for the FENZ lead summer campaign. There was positive feedback for FENZ around requesting fireground assistance from DOC staff, which is helping to build capability.
  - FENZ – The summer campaign has received a great response. The Check it's Alright site has seen a surge in visitors and has also received great feedback. Fire Plan consultation has just closed and we are evaluating and assessing feedback, at a high level we need to draw a distinction between fireplans that were response focussed and the fireplans that are currently being developed (as per the regulation changes). There is work underway to connect and help migrant workers when English is not their first language. FENZ are working with SOLGM (body that represents senior officials at local councils) to join up regulatory and compliance teams to ensure consistent messaging to the public from TLA's and FENZ.

#### **Item 4 – Wildfire risk profile**

Roxanne gave a high-level overview of the Wildfire Risk Profile, which highlighted the following points:

- The Hazard Risk Board is a group of senior officials who manage national security from a governance and response perspective. The HRB report to ODESC and ODESC report to cabinet. This process is managed by DPMC.
- The Wildfire Risk Profile was last completed in 2017 and requires a full refresh which Fire and Emergency have been doing analysis for over the last few months.
- Unlike a prescribed fire used as a land management tool to remove pests, disease and unwanted vegetation build up or to regenerate land, a wildfire is an uncontrolled fire occurring within an area of combustible vegetation often moving rapidly across the landscape destroying anything in its path. Most commonly wildfires occur in rural areas, although they are not limited to these settings and do occur within urban environments.
- There was an overview of the 5-year linear trends for wildfires.
- Given New Zealand's maritime environment and the associated influence on weather patterns, it is hard to predict at the start of a fire season how many wildfires might occur and where the greatest risk may lie.
- What determines if a wildfire will or won't become a significant event depends on how the wildfire interacts with the fire environment, with the weather component being the most variable.

- There is a limit in the ability to control wildfires, mostly due to the fires intensity. Wildfire firefighting is a particularly hazardous activity, not only due to the unpredictability of the fire behaviour, but also from indirect hazards such as compromised structures, damaged power lines, unstable trees, smoke, as well as the rural environment in which they occur.
- Climate change is the single greatest factor affecting wildfire risk in the future. Based on the likelihood of hotter, drier and windier conditions, the wildfire risk is expected to increase.
- The discussion document is to ensure the risk is accurately described and understood, however it does not ask for recommendations. This document will enable organisations to clarify the response needed to address the risk.
- It was noted that there isn't much in the document around Maori outcomes. Piki Thomas is reaching out to the iwi chairs to enable better engagement.
- There will be a section added around biodiversity.

Action: Roxanne to circulate the Wildfire Risk Profile discussion paper to the National Land Management Forum members for comment.

The meeting finished at 11.35.

The next meeting is scheduled for 8 April 2021.

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# Hui Miniti/Minutes

**Meeting: National Land Management Forum**

**Date: Thursday 8 April 2021 1.30 – 2.30pm**

**Attendees:** Roxanne Hilliard (Chair), Ben Reddiex, Colin Hurst, Sean McBride, Graeme Still, Val Fono, Emma Francis (Secretariat)

**Apologies:** Thomas Burns, Oliver Hendrickson, Jason Krupp

## Agenda:

Item	Time	Topic	Lead
1	1.30	Karakia (below)	Chair
2	1.30 – 2	Item 2 – Fire Plans	Chair
3	2– 2.25	Item 3 - Organisational / Member updates	All
4	2.25 – 2.30	Item 4 – Agenda for next meeting	Chair
5	2.30	Close	Chair

## Item 2 – Fire Plans

Graeme Still and Valerie Fono attended the meeting to provide an update on the development of fire plans. Attached to the minutes is the presentation, additional points discussed:

- Fire plans are distinctly different under the Fire and Emergency New Zealand Act 2017 from their previous versions which were response focussed and directed by the Forest and Rural Fires Act 1977.
- Fire and Emergency is undertaking a nationwide rollout of new fire plans. In 2020 three trial areas were elected to trial the new fire plans; Northland, Hawke's Bay and Otago.. Feedback from submissions made during the trial period and consultation have been incorporated into the updated fire plan templates.
- There are 16 fire plan areas based on Local Advisory Committee boundaries.
- A fire plan outlines policies and procedures at a local level for the management of public safety and risks relating to fire. Fire plans also provide increased transparency to the public about how Fire and Emergency's fire control powers are used.
- The difference between these and previous fire plans is that they now include information on things like local demographics and environmental factors that are relevant to our work to reduce risks from fire and to manage the potential impacts if one occurs.
- Feedback from the public was that they didn't fully understand what a fire plan is *not*. Fire plans are not about how we fight fires in the local area, or the resources available to do so. These plans are about how, when and why Fire and Emergency will exercise its fire control powers to reduce the incidence of unwanted fires in the area. Details around how we respond and resource fires are held in the response plans managed at District level.
- When establishing triggers for fire seasons, we need to be able to define the geographic areas that the fire season will apply to. The local area fire plan has been broken into

zones to reflect where geographically distinct parts need to be in separate fire seasons, either due to different fire risk conditions, or values at risk.

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- It was noted that stronger engagement with iwi would be desirable in the development and consultation of these plans. The difficulties of engagement was noted and discussed. Fire and Emergency will continue to work with iwi liaison officers to seek greater engagement.

### Item 3 – Organisational/member updates

Thomas Burns (LINZ) provided the following organisational update via email ahead of the meeting:

- The Crown Pastoral Land Reform Bill is being considered by the Environment Select Committee and that LINZ is currently considering the wide range of submissions presented to the Committee and preparing its advice on these.
- As mentioned at the last meeting LINZ has part funded some research in to the impact of fire on grasslands following the recent Mackenzie fires. The data has yet to be analysed, but once this is completed, we will discuss the findings with our research partners and aim to share it with the forum.

**Action: Roxanne to schedule a discussion at a future National Land Management Forum regarding the research being done by LINZ in to the impact of fire on grasslands following the recent Mackenzie fires.**

Fed Farmers:

- There have been a few fires on farms over recent weeks, with high praise being given to the way Fire and Emergency have dealt with these. Fed Farmers are looking at the causes and are looking at developing their own fire plans – The Risk Reduction team will be engaged in this work

FOA:

- FOA have been working to enable communications out to the rural environment around what the risk is on a given day, which as a result will drive decision making.
- FOA committee have voiced concerns around the ARENA aerial attack process and that there was almost no warning from Fire and Emergency before this process was formalised.

**Action: Roxanne to speak with Adrian Nacey and invite him to the next National Land Management Forum to discuss some of the challenges around behaviour change.**

DOC:

- There are ongoing discussions with Fire and Emergency around the OSA and work ongoing regarding what any changes in the OSA may mean for DOC and FENZ services going forward.
- DOC had sent some staff on a CIMS 2 course and was advised, after the fact that the course was no longer accreditable. Clarification was sought Fire and Emergency's understanding of that, and what if any action we were taking given the requirement for our IMT's to hold this qualification.

Action: Roxanne to ask Ian Duncan to attend the Fire Committee meeting for Forestry to discuss when the new NZQA unit will be available.

Fire and Emergency:

- There have been internal announcements of new District Managers.
- The Risk Reduction team are undertaking work to ensure clarity around what is needed to be delivered/achieved regarding the wildfire threat analysis tool. This will be brought to a future National Land Management Forum for discussion when the work has been scoped.
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Action: Roxanne to circulate communications about Tranche 2 appointments to forum members.

**Item 4 – Agenda for next meeting**

Action: Forum members to email future agenda items to Roxanne.

The meeting finished at 2.33pm

The next meeting is scheduled for 8 June 2021

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# National Land Management Forum

**Date:** 8/06/2021

**Venue:** Teams Meeting

**Time:** 2.30pm to 3.30pm

**Attendees:** FENZ – Roxanne Hilliard, Tim Mitchell, Valerie Fono (Secretariat), Federated Farmers - Colin Hurst, NZFOA - Sean McBride, DOC - Ben Reddiex, LINZ - Thomas Burns, MPI - Oliver Hendrickson

**Apologies:** Jason Krupp, LGNZ.

## Agenda:

Item	Topic
2	Previous actions and minutes; and future agenda
3	Organisational / Member updates
4	Wildfire Risk Profile
5	Setting Wildfire Prevention Thresholds

### Item 2 - Previous actions update from 8 APRIL 2021

1. Adrian Nacey invited to next National LMF
2. Ian Duncan scheduled to attend next Fire Committee
3. Roxanne to circulate comms re Tranche 2 appointments to forum members.

### Item 3 – Organisational/Member Updates

NZFOA - not making an overarching submission on Fire plans, they've asked their members to submit submissions individually. If Fire and Emergency received anything out of alignment from Forestry, we'll send a copy to Sean for information.

MPI - A lot of noise around permanent pine forests, discussion about an approach for forest fire readiness, consideration could be given to a voluntary guide.

LINZ – focus on floods

DOC – preparing submission on fire plans. DOC and FENZ continue to work well together on the OSA. Ben has joined the Wilding Conifers Governance Group.

FENZ – stand up date 27 September 2021 for Districts, District Managers and some Group Managers have been announced, in the midst of recruitment for some roles. Tim Mitchell now working in National Wildfire Manager role, working on Policy and Legislative pieces and will join the National Land Managers Forum.

### Item 4 - National Wildfire Risk Profile

- Taken as read, Tim provided an overview of the document.
- Profile is specifically for the Hazard Risk Board of DPMC.
- The template we had to follow restricted what we could include or how we defined the risk.

- Biggest issue we are facing in being able to manage the wildfire risk is the lack of understanding of owners/occupiers, industry and general public of their role and responsibility to acknowledge the risk and take appropriate actions to mitigate.
- Risk profiling workshop with DPMC this Thursday, going to the Hazard Risk Board.

The forum noted the work that had gone into the risk profile and endorsed the content.

### Item 5 – Setting Wildfire Prevention Thresholds

Guideline for Districts to have conversations with local partners, to be set locally.

- MPI – helpful, able to use in guidance to foresters in managing their ETS risks
- LINZ – could use as a condition on consents, and or best practice guide.
- NZFOA – reaffirming what we have had in place for years, applauded the inclusion of powerline auto-reclosure. Suggest inclusion as an agenda item at regional LMFs.
- FED FARMERS – would do a Teams call to get feedback from their members.

The forum endorsed the thresholds and noted the value of getting them in place.

### CURRENT ACTIONS

8/6 2021

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#### A1. Roxanne

Send out formal communications on new structure appointments to-date

#### A2. Oliver

To provide a name from MPI to inform input into Wildfire Risk Profile

#### A3. Tim

After DPMC workshop, Tim to circulate the final Wildfire Risk Profile

#### A4. Roxanne

Include Prevention Thresholds on Regional Land Management Forum agendas

#### A5. Tim

Liaise with Colin to set up drop-in session for Federated Farmers members to contribute to the Prevention Thresholds.

#### A6. Roxanne

Invite Janaya to future National LMFs

#### A7. All

Provide context, risk lens for a potential deep dive into powerlines

#### A8. Tim

Catch up with Oliver and Colin on Carbon Forestry.

### FUTURE MEETING TOPICS

- Crown Pastoral Land Reform (Thomas Burns)
- Deep dive on powerline auto-reclosure see A7

### NEXT MEETING

2/8/21 2.30pm Teams Meeting

# National Land Management Forum

**Date:** 02/08/2021

**Venue:** Teams Meeting

**Time:** 11.00am to 12.00pm

**Attendees:** FENZ – Roxanne Hilliard, Tim Mitchell, Janaya Soma, Valerie Fono (Secretariat), Federated Farmers - Colin Hurst, NZFOA - Sean McBride, DOC - Ben Reddiex, LINZ - Thomas Burns, MPI - Oliver Hendrickson, Jason Krupp, LGNZ, Adrian Nacey

**In Attendance:** Ian Imrie (DOC), Kyle Beetham (PROP), Ian Duncan and Adrian Nacey (FENZ)

**Apologies:** Sean McBride, Ben Reddiex

## Agenda:

Item	Topic
2	Previous actions and minutes; and future agenda
3	Organisational / Member updates
4	Connecting with Stakeholders in Developing Wildfire Responses – Kyle Beetham
5	Behavioural Segmentation - Adrian Nacey
6	General Business

### Item 2 - Previous actions update from 8 June 2021

Completed

### Item 3 – Organisational/Member Updates

Carried forward due to large agenda.

### Item 4 – Connecting with Stakeholders in Developing Wildfire Responses

The forum has asked Tim Mitchell to assign a Wildfire Specialist to discuss further with Kyle what the actual proposal is as the forum felt it wasn't particularly clear what the was being asked for and expressed some concern this was response and aircraft focused, Tim to report back any recommendations to the forum.

- Focus on Wildfires and how we approach the growing threat from a global and optimal point. PROP's mission is to accelerate the creation of a global response to wildfires.
- Wildfires a cause and consequence of climate change.
- Seeking SMEs for forestry and firefighting.



## Item 5 – Behavioural Segmentation

- Presentation given by Adrian Nacey – understanding our audience through segmentation.
- Example provided to given insight into how this segmentation feeds into decision making (home fire safety visits)
- Fed Farmers keen to be involved in discussions as we look to broaden the segmentation data to include rural and peri-urban groupings.

## CURRENT ACTIONS

2/8/2021

### 21-0801

Tim

To provide one Wildfire Specialist to spend one hour of time with Kyle and PROP bringing a recommendation to the group.

### 21-0802

Roxanne

Once the quantitative behavioral segmentation piece has been completed, invite Adrian back to speak to the group.

### 21-0803

All

Any general business items to carry over to next meeting please email to Roxanne.

Item	Action	Name	Action By	Status
21-0601	Send out formal communications on new structure appointments to-date.	Roxanne		Completed
21-0602	Oliver to provide a name from MPI to inform input into Wildfire Risk Profile	Oliver		Closed
21-0603	After DPMC workshop, Tim to circulate the final Wildfire Risk Profile.	Tim		Completed
21-0604	Include Prevention Thresholds on Regional Land Management Forum agendas	Roxanne		
21-0605	Liaise with Colin to set up drop-in session for Federated Farmers members to contribute to the Prevention Thresholds.	Tim		
21-0606	Invite Janaya to future National LMFs	Roxanne		Completed
21-0607	Provide context, risk lens for a potential deep dive into powerlines.	All		

## FUTURE MEETING TOPICS

- Crown Pastoral Land Reform (Thomas Burns)
- Deep dive on powerline auto-reclosure see 21-0607

## FUTURE MEETINGS

4/10/21 11.00am Teams Meeting

6/12/21 1.00pm Teams Meeting

**Date:** 04/10/2021

**Venue:** Teams Meeting

**Time:** 11.00am to 12.00pm

**Attendees:** FENZ – Roxanne Hilliard (Chair), Tim Mitchell, Trang Mai (Secretariat)  
NZFOA - Sean McBride, DOC - Ben Reddiex, LINZ - Thomas Burns

**In Attendance:** FENZ - Kelley Toy

**Apologies:** Fedfarm - Colin Hurst, MPI - Oliver Hendrickson, LGNZ - Jason Krupp

**Agenda:**

Item	Time	Agenda Topic	Lead
1	11.00	Item 1 – Welcome and Karakia to open	Chair
2	11.00 – 11.30	Item 2 – Wildfire campaign	Kelley Toy
3	11.30 – 11.35	Item 3 - Previous actions and minutes	All
4	11.35 – 11.55	Item 4 - Organizational/ member updates	All
5	11.55 – 12.00	Item 5 – General Business	All
6	12.00	Item 6 – Karakia to close	Chair

**Item 2 – Wildfire Prevention & Readiness Campaign 21/22**

- Phase one of the wildfire campaign, focused on readiness, will be live on 4<sup>th</sup> October. It aims to encourage rural and semi-rural dwellers to prepare in case of a wildfire in their area.
  - This campaign is in response to ongoing research which shows potential for significant increases in wildfire for many parts of New Zealand with climate change.
  - The launch of this campaign coincides with the one-year anniversary of the devastating fire at Lake Ōhau, now one of the most significant wildfire incidents in New Zealand’s recent history
  - Two key actions are highlighted to help defend people’s home and property from wildfire:
    - ✓ Keep your grass short
    - ✓ Keep gutters and areas around decks clear of dead leaves, debris and pine needles.
  - The main message of the campaign is, if you’re not ready, the risk is always extreme. We have creatively used the Fire Danger index sign, as the campaign imagery.
  - It will be supported by phase two, a mass wildfire prevention campaign, that will begin in mid-December. From February, we will also encourage people to plant low flammability plants through winter to prepare for the next wildfire season.
- ACTION: Thomas** to share contact of LINZ’s comms team so that Roxanne/ Kelley could share the Wildfire campaign’s context.
- ACTION: Janaya** to outline the Wildfire campaign in a couple of pages. Roxanne to send to the forum once available
- ACTION: Trang** to send out the Wildfire Prevention & Readiness Campaign 21/22’s presentation to the forum [COMPLETED]

### Item 3 - Previous actions and minutes

Item	Action	Name	Status
21-0801	To provide one Wildfire Specialist to spend one hour of time with Kyle and PROP bringing a recommendation to the group.	Tim	Closed
21-0802	Once the quantitative behavioral segmentation piece has been completed, invite Adrian back to speak to the group.	Roxanne	Closed
21-0803	Any general business items to carry over to next meeting please email to Roxanne.	All	Closed
21-0604	Include Prevention Thresholds on Regional Land Management Forum agendas	Roxanne	Closed
21-0605	Liaise with Colin to set up drop-in session for Federated Farmers members to contribute to the Prevention Thresholds.	Tim	Open
21-0607	Provide context, risk lens for a potential deep dive into powerlines	Tim	Open

### Item 4 – Organizational/Member Updates

- Department of Conservation
  - Newly appointed National Fire Manager - Aroha Hughes
  - Newly appointed DG – Penny Nelson
  - Operational Service Agreement between FENZ and DOC has been signed virtually on 8<sup>th</sup> Sept
  - Work underway around PCBU - national and international deployment
  - Biggest focus now is the Fire readiness for 21/22 season
- Land Information New Zealand
  - Restructuring complete for the highest tiers at LINZ
  - Newly appointed Pastoral Manager – James Holborow
  - ACTION: Trang** to set up 90 minutes meeting in November – Topic: deep dive into Crown Pastoral Land Reform (meeting invitation will be extended if needed) [COMPLETED]
- NZ Forest Owners Association
  - Operational Service Agreement between FENZ and FOA
  - There is a potential red flag about duty roster arrangements, this will be discussed at the Fire Committee’s next meeting. Reminder to FNEZ that Forestry and DOC have resources available for this.
  - ACTION: Sean** to feedback to Roxanne whether the potential red flag is a local or national issue and requires escalation.
- Fire and Emergency NZ
  - Newly appointed Wildfire Specialist – Valentino Luna Hernandez, and Wildfire Scientist - Grant Pearce (joining from SCION)
  - Tranche 2 District structure has officially stood up, District Teams into effect across the country
  - Lake Ōhau fire investigation report is due to complete in the next couple of weeks
  - ACTION: Trang** to add Lake Ōhau fire investigation to the December meeting for 90 minutes (meeting invitation will be extended if needed) [COMPLETED]

### FUTURE MEETINGS

6/12/21 1.00pm Teams Meeting

**Meeting:** National Land Management Forum

**Topic:** Crown Pastoral Land Reform Bill

**Date:** 8<sup>th</sup> November 2021

**Time:** 2.30pm – 4.00pm

**Attendees:** Thomas Burns (Chair), Roxanne Hilliard, Ben Reddiex, Jason Krupp, Sean McBride, Jerome Sheppard, Kyle Beetham, Colin Hurst, Oliver Hendrickson, Tim Mitchell, Rory Renwick, Graeme Still, Gary Lockyer

**Presenters:**

- Craig Harris – Commissioner of Crown Lands
- April Hussey – Pastoral Programme Manager
- Tom Burns – Pastoral Senior Portfolio Manager

Item	Time	Agenda Topic	Lead
1	2.30 pm – 2.35pm	Item 1 – LINZ Introduction & Karakia to open	Roxanne
2	2.35pm – 3.20pm	Item 2 – Crown Pastoral Land Reform Bill deep dive <ul style="list-style-type: none"> <li>• Purpose of the Bill</li> <li>• Crown pastoral land</li> <li>• What the Bill does not seek to change</li> <li>• Main changes that the Bill makes</li> <li>• Transitional arrangements and implementation</li> <li>• Status update on the Bill</li> <li>• Wildfire mitigation and other emergency situations</li> </ul>	Presenters
3	3.20pm – 3.55pm	Item 3 – Q&A	All
4	3.55pm – 4.00pm	Item 4 – Karakia to close	Roxanne

### Karakia to open:

E te whanau  
Whaia te matauranga  
Kia marama kia whai take  
Nga mahi katoa  
Tu maia, tu kaha  
Aroha atu,  
aroha mai  
Tatou I a tatou katoa

For this Family  
Seek knowledge to understand  
Have purpose in all  
that you do  
Stand tall, stand strong  
Let us show respect  
for each other

### Karakia to close:

Kua mutu a mātou mahi  
Mō tēnei wā  
Manaakitia mai, mātou katoa  
O mātou hoa  
O mātou whanau  
Āio ki te aorangi

Our work has finished  
for the moment  
Bless us all  
Our colleagues  
Our families  
Peace to the Universe

# The Fire Risks of Carbon Forestry

**Date:** 8<sup>th</sup> March

## **Attendees:**

DOC – Scott Bowie, Ben Reddiex, Amber Bill, Scion – Grant Pearce, UoC – Euan Mason, FOA/Juken – Sean McBride, Fed Farmers – Colin Hurst, NZ Carbon Farming – Peter Casey, FENZ – Roxanne Hilliard, Graeme Still, Tim Mitchell, TUR – Oliver Hendrickson, Fiona Hennessey, and LGNZ - John Stewart

## **Context:**

To gain a greater understanding of forest fire risks with permanent exotic carbon forestry.

The price of carbon credits has risen dramatically; it is currently trading around \$40/t and is not likely to drop below \$20/t.

Does this signal a likely change in behaviour by foresters in relation to rotational forestry?

Does this change anything in relation to fire risk?

### *In scope:*

Forests and Forestry is not a new land-use proposition for New Zealand, nor is the risk of fire. However, with a warming climate and the recent interest in permanent exotic forestry for the sole purpose of carbon sequestration as an emerging land-use, this will be the context of our discussion. Discussion will focus on whether the risk profile of exotic rotational forests (intended for harvest ~27 years) is significantly different from permanent exotic forests.

### *Out of scope:*

Discussion on the role of forestry in helping New Zealand achieve its climate change goals.

Other considerations such as water yield, socioeconomic impacts (from land-use change or changes to domestic wood-flow), biodiversity, etc will also be out of scope.

## **Discussion points:**

Summary of the key points Peter Casey covered in the session:

- Different forestry types (native, regeneration, permanent exotics, production exotics and conservation estate) have different risk profiles, based on species, management practice and location.
- Causes of fire and severity are well known and they give a clear framework to determine risk of fire. People and human activities are the key drivers of forest fires. No harvesting activities in a permanent carbon forest and low people presence drops its fire risk profile.
- That the forest fire risks with permanent exotic carbon forestry is lower than a production timber forest, and regenerative forest fire risk is even lower.
- Carbon forestry is not a new activity, this has been in existence since the outset of the ETS, over a decade ago

From a FENZ perspective it is the ability to access carbon forest information that would enable planning and fire risk mitigation work with the landowners or management companies. Recently there has been fires which have burned in carbon forests. Due to the lack of maintenance, access or consideration for fire suppression (fire breaks, water supplies), the tactical options for managing fires in these environments can be limited making them challenging fires to manage.

Because of the difficulty in being able to manage fires within these environments neighbouring property owners are increasing becoming concerned for how this affects the level of risk they are exposed to from high intensity wildfires that may spread from carbon forests onto their properties.

Two types of carbon forestry – maintained and no low maintenance. NZ Carbon Farming is an example of a well-planned, multi species, work with Councils, managed over time for regeneration. Reduced stocking rates and no internal activities reduce fire ignition risk. Currently working with FENZ to develop fire breaks and fire plans.

Carbon forests tend to be more isolated with a lot less people or harvesting activity, but because of that there can be less planning or maintenance being carried out.

There currently isn't a complete database of permanent carbon forests, once 2023 ETS changes are introduced, mapping will be able to show permanent versus rotational forests registered in the carbon trading scheme.

Currently the ability to share mapping data is limited to an aggregated map of where properties are, but no other details.

Data shows that actual fire risk and forestry fire loss in NZ are minor compared to overseas examples, despite research indicating possible doubling of risk in coming years due to potentially changing climate factors.

There is an increasing trend to carbon forest planting different species rather than the usual pine species, in some cases these pose significant higher fire risks ie Manuka, Kanuka and Eucalyptus.

Forestry has a significant roll in the Emissions Reduction Plan; we need long term strategic planning for processing and carbon sequestration, including species.

A fire within a carbon forest is not only consequential for the carbon that is released but also the area damaged must be replanted within a specified time frame or the owner must pay back monies for carbon credits received.

A research bid by Scion for MBIE funding to better understand fire risk of indigenous forests is proposed but subject to approval.

Land use changes over time, but all land managers need to plan and mitigate for (fire) risk.

**Where to from here:**

- Ongoing need for agencies to share what we are doing in regarding to forestry risk.
- It would be helpful to have a simple fact sheet which helps dispel myths around carbon forestry.
- Further work is needed to develop a code of practice of what good looks like in a forest
- Wildfire Risk Profile document in light of this discussion boarded to include permanent forestry (Carbon forestry).
- Need to consider wider impacts (ie social) no just to forestry for why there is a focus on managing fire risk.
- Guidance document need to assist Councils who through the resource management process are considering permanent forest applications.

**Actions:**

Euan	Provide an aggregated map of ETS plantings based on information available currently
Euan	Provide a copy of his slide presentation
Grant	Share a synopsis of the Scion research bid for MBIE funding.

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# The Lake Ōhau Fire

*Fire investigation summary*



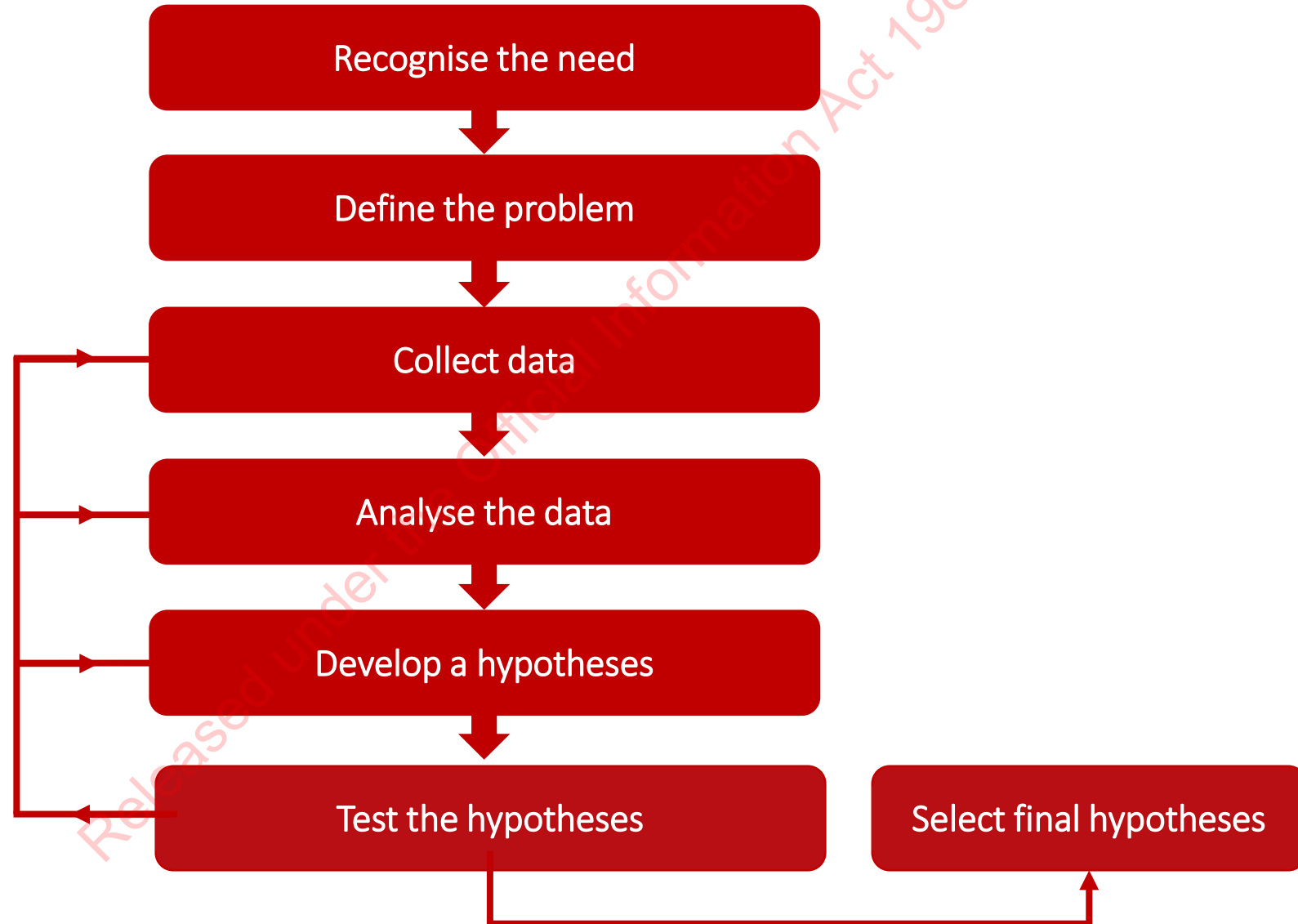
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# The team

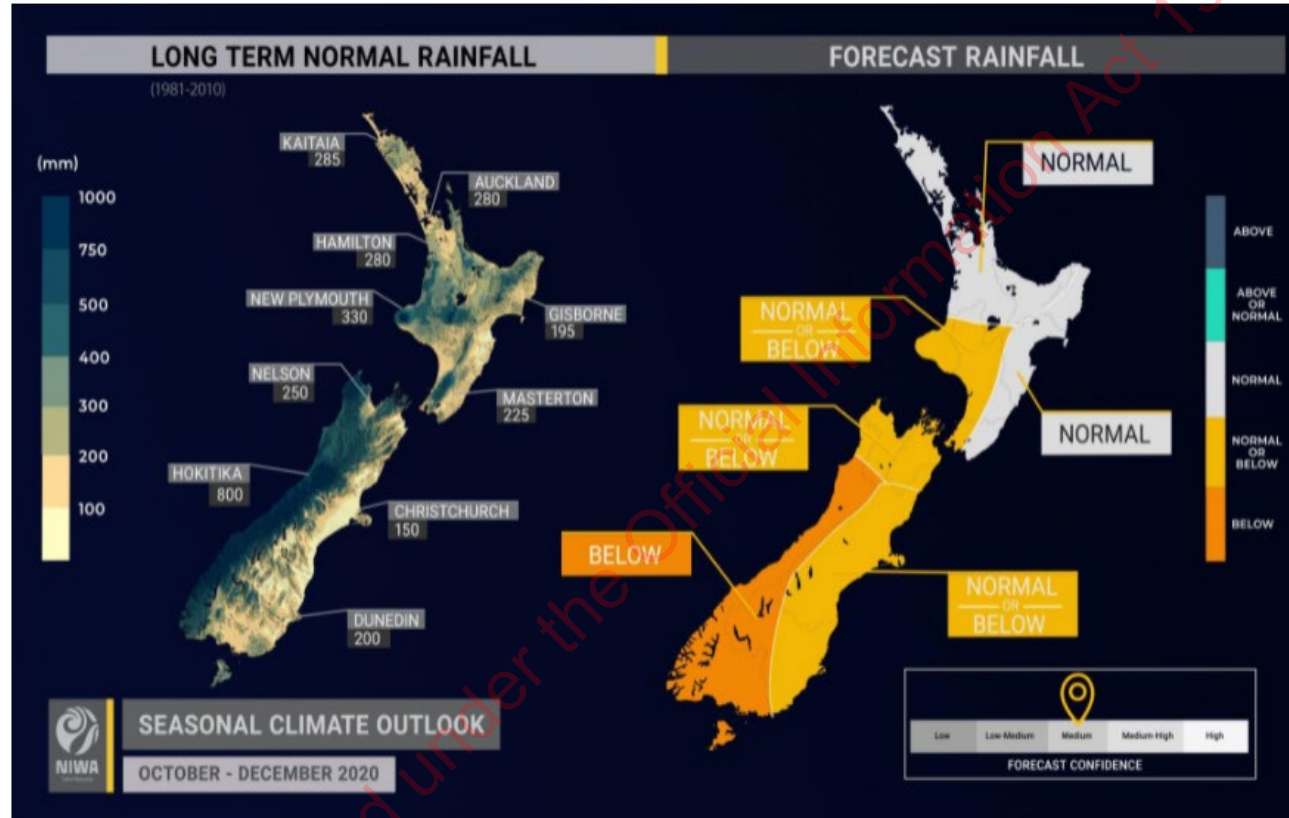
- Senior Specialist Fire Investigator (Wildfire) - Lead
- Specialist Fire Investigator (Structural and Wildfire)
  
- Five additional Specialist Fire Investigators
- Wildfire Scientist
- Engineers
- Electrical Specialist
- Legal Counsel

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# Investigation process



# Weather - rain

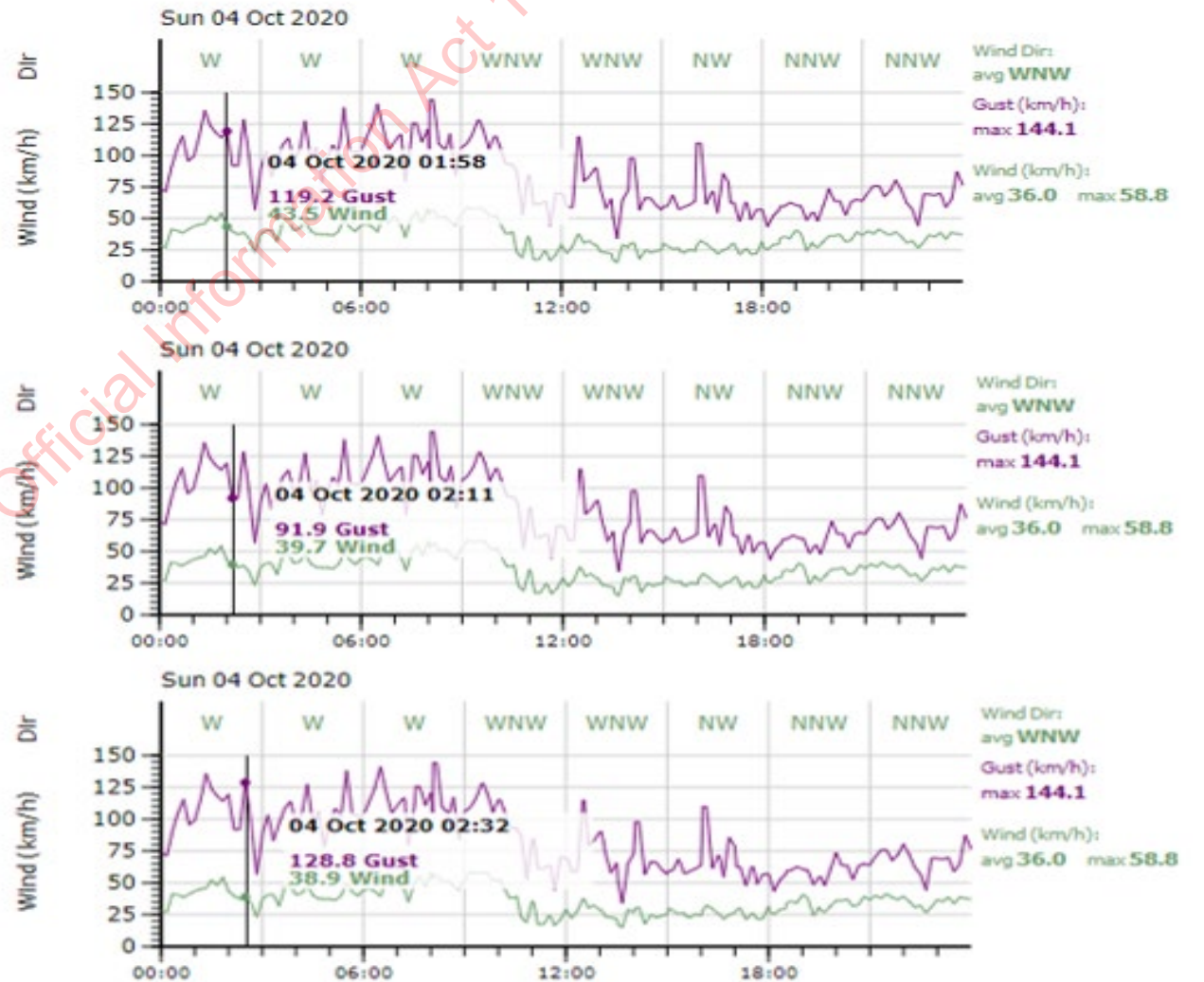


- Approx. 340mm of rain fell over the three months leading up to the fire
- No change to grass curing

# Weather - wind



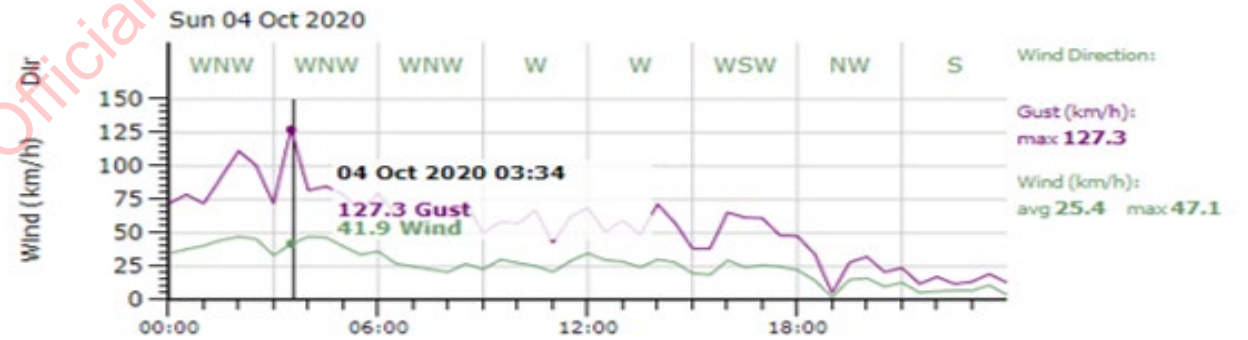
## Wind



# Weather - wind



## Wind



# Fire behaviour

Date	Station Name	Forest	Scrub	Grass	FFMC	DMC	DC	ISI	BUI	FWI	TEMP	RH	DIR	WSP	RN24	GC%
3 Oct 2020	Pukaki Aero	M	E	E	89.5	11	59.2	25.1	15	24.3	19	38	279	36.4	0	85
4 Oct 2020	Pukaki Aero	M	E	E	92	14.30	64.41	22.4	18.39	24.35	23.4	28	250	27.4	0	85
5 Oct 2020	Pukaki Aero	M	E	V	93.1	17.9	69.6	13.7	21.8	18.6	23.6	23	285	14.4	0	85

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# Fire behaviour

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5 Oct 2020	Pukaki Aero	M	E	V	93.1	17.9	69.6	13.7	21.8	18.6	23.6	23	285	14.4	0	85

85-87 easy ignition and able to sustain a fire

Dropped to about 82 in early hours of the morning, (WHAT THIS MEANS)

# Fire behaviour

Date	Station Name	Forest	Scrub	Grass	FFMC	DMC	DC	ISI	BUI	FWI	TEMP	RH	DIR	WSP	RN24	GC%
3 Oct 2020	Pukaki Aero	M	E	E	89.5	11	59.2	25.1	15	24.3	19	38	279	36.4	0	85
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5 Oct 2020	Pukaki Aero	M	E	V	93.1	17.9	69.6	13.7	21.8	18.6	23.6	23	285	14.4	0	85

> 10 indicates a fast fire

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# Fire behaviour

Date	Station Name	Forest	Scrub	Grass	FFMC	DMC	DC	ISI	BUI	FWI	TEMP	RH	DIR	WSP	RN24	GC%
3 Oct 2020	Pukaki Aero	M	E	E	89.5	11	59.2	25.1	15	24.3	19	38	279	36.4	0	85
4 Oct 2020	Pukaki Aero	M	E	E	92	14.30	64.41	22.4	18.69	24.35	23.4	28	250	27.4	0	85
5 Oct 2020	Pukaki Aero	M	E	V	93.1	17.9	69.6	13.7	21.8	18.6	23.6	23	285	14.4	0	85

Shows dryness of grass fuels in the area

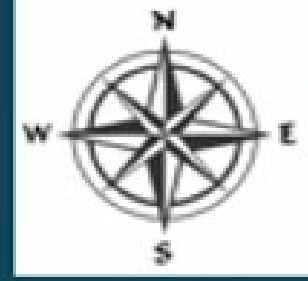
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# Collecting data

- Witness sightings of the fire
- Photographs
- Physical scene examination
- Mapping of burn indicators
- Specialist advice

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The Barn at Killin B&B

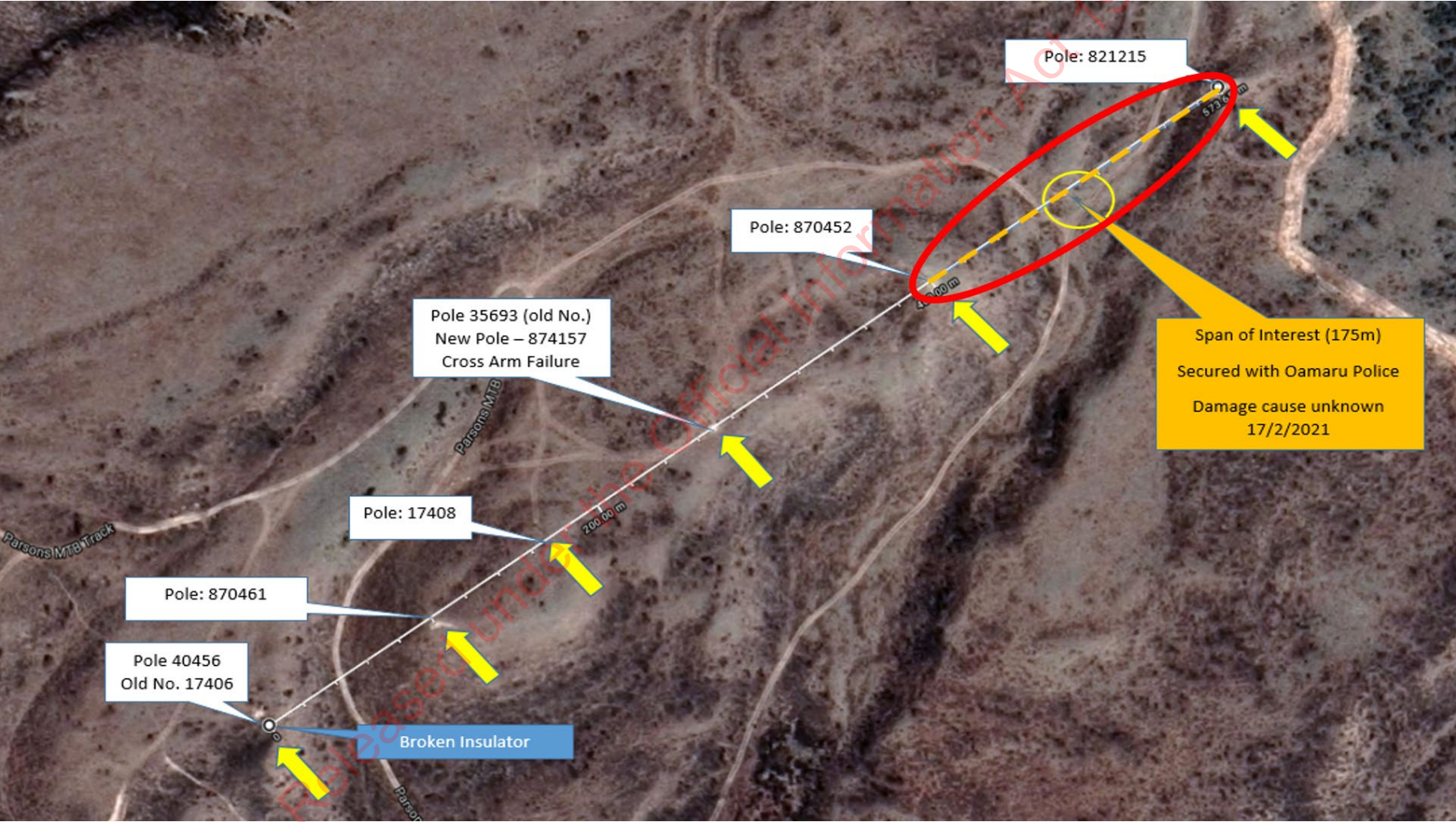
Lakeview house

Lake Ohau

Lake Ohau Getaway



# Area of interest 1



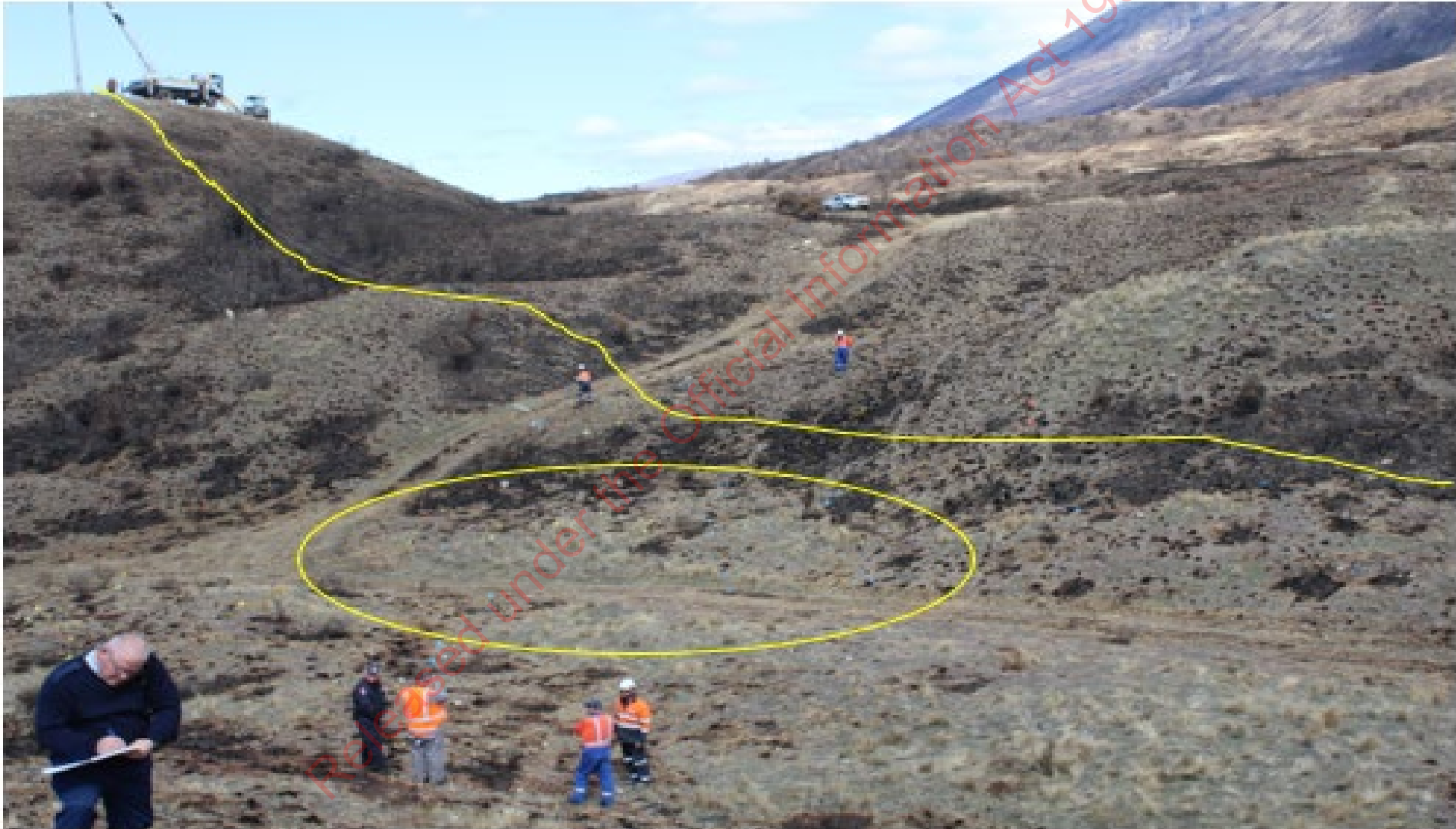
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# Area of interest 1



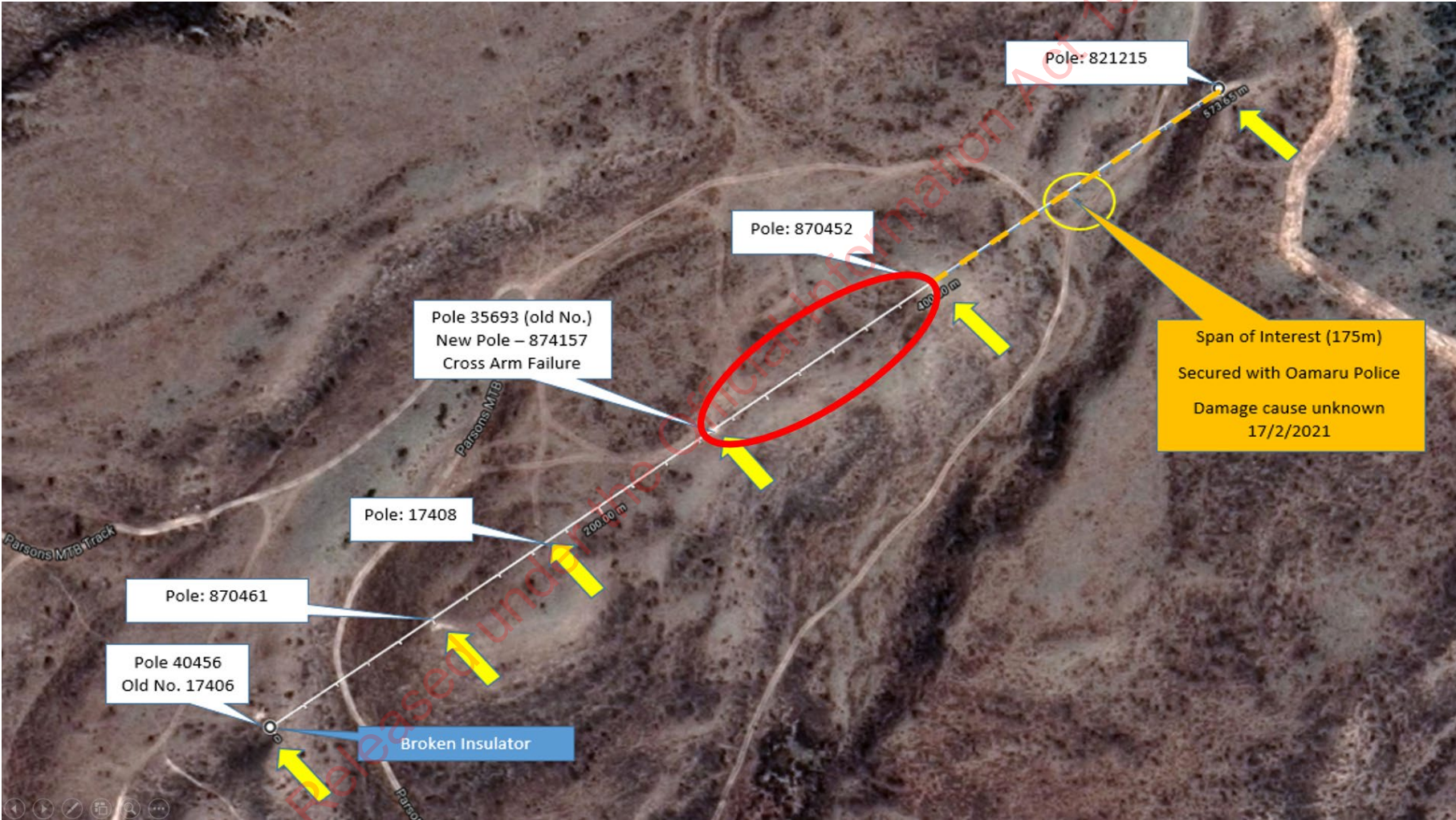
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# Area of interest 1





# Area of interest 2



# Area of interest 2



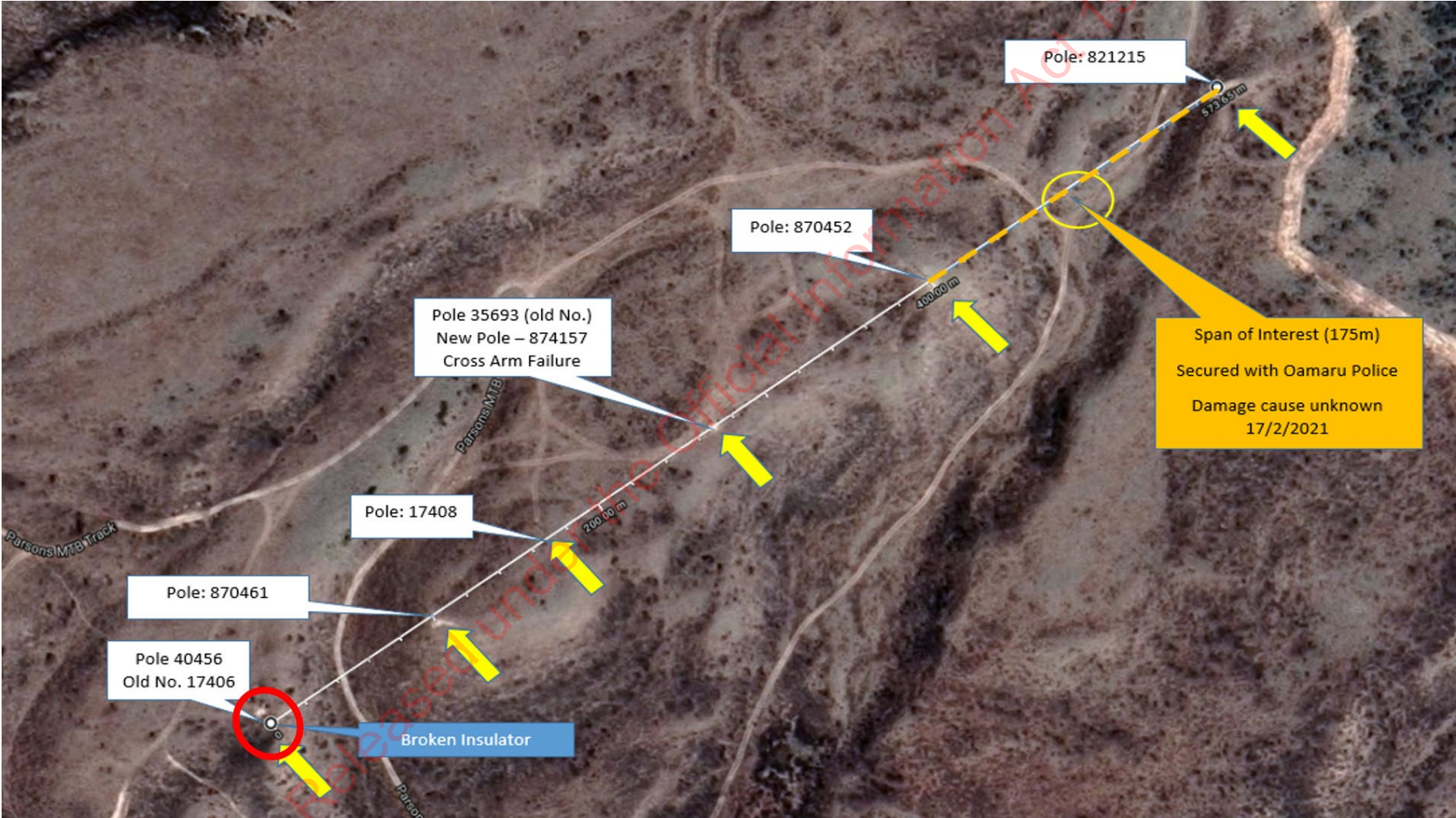


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## Area of interest 4



# Area of interest 5

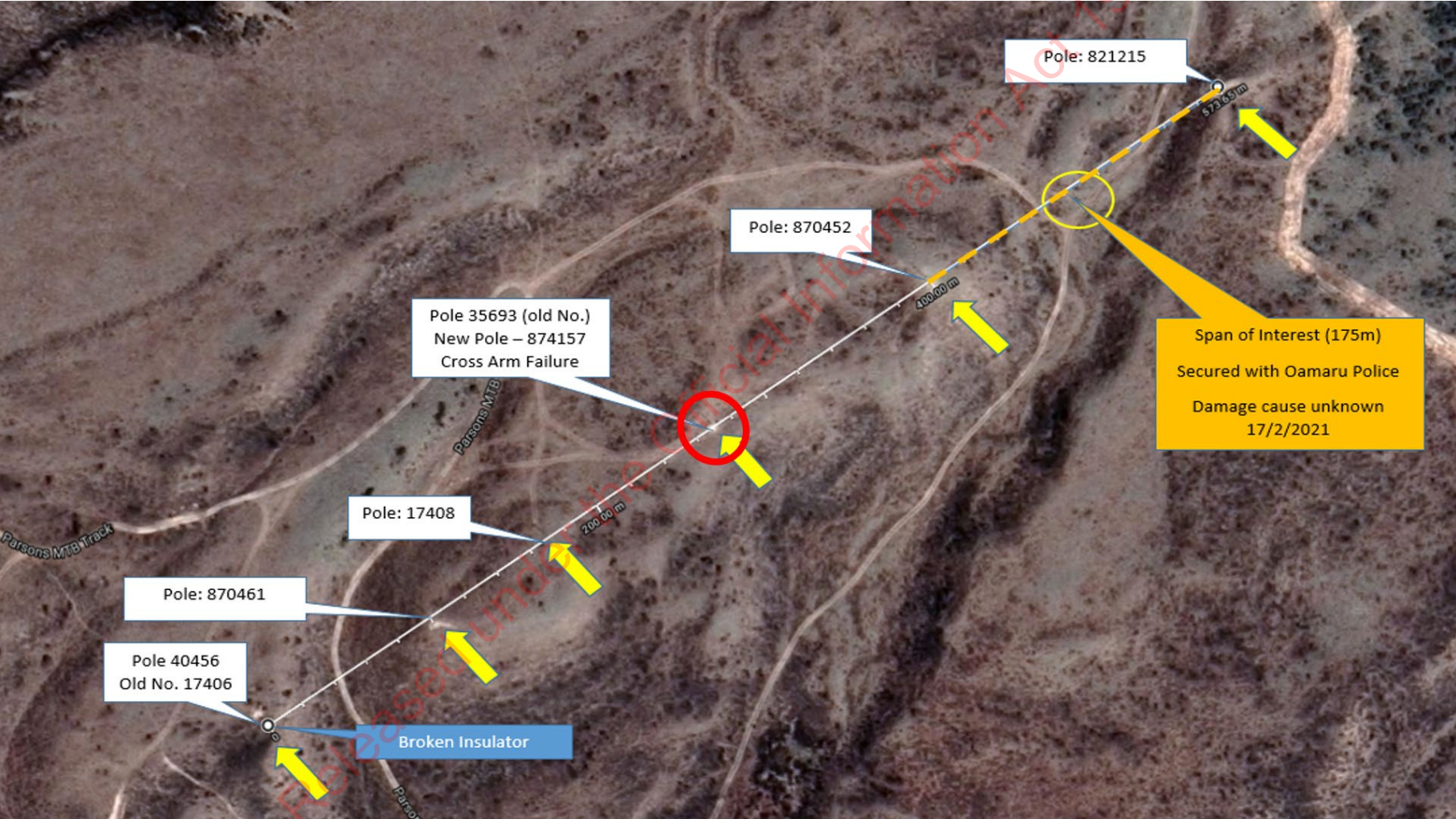


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# Area of interest 5



# Area of interest 3



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## Area of interest 3





# Area of interest 3



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# Area of interest 3

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# Area of interest 3



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## Area of interest 3



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# Area of interest 3

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## Area of interest 3



# Supporting data

Phase to earth fault at 2.10am

Further fault at 3.23am

Date	24hr Time	Fault	Amps	Phase	Location	Action
4-Oct-20	2:10:03	Phase to earth	7		R690	Trips and recloses
4-Oct-20	2:11:51	Phase to earth	7		R690	Trips and recloses
4-Oct-20	2:11:57	Nil			R690	R690 recloses
4-Oct-20	3:23:09	Phase to earth	44		R690	R690 trips then recloses
4-Oct-20	3:23:09	W max	304	3 phase B = 304 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:09	V max	306	3 phase Y = 306 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:09	U max	291	3 phase R = 291 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:10	Nil			R690	R690 recloses
4-Oct-20	3:23:15	Phase to earth	35		R690	R690 trips then recloses
4-Oct-20	3:23:15	W max	310	3 phase B = 304 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:15	V max	307	3 phase Y = 306 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:15	U max	291	3 phase R = 291 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:16	Nil			R690	R690 recloses
4-Oct-20	3:23:21	Phase to earth	38		R690	R690 trips then recloses
4-Oct-20	3:23:21	W max	303	3 phase B = 304 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:21	V max	306	3 phase Y = 306 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:21	U max	294	3 phase R = 291 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:21				R690	Line Supply off
4-Oct-20	3:23:26	W max	312	3 phase B = 312 Amp	R690	R690 trips then recloses
4-Oct-20	3:26:26	V max	307	3 phase Y = 307 Amp	R690	R690 trips then recloses
4-Oct-20	3:26:26	U max	291	3 phase R = 291 Amp	R690	R690 trips then recloses
4-Oct-20	3:23:26	No Earth Fault			R690	
4-Oct-20	3:23:26				R690	Line Supply off
4-Oct-20	3:23:27				R690	Lock Out

# Supporting data - witness statements





# Supporting data – Prometheus Modelling



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# Conclusion

A failure of the cross arm on Pole 35693 at 2.10am led to a phase to earth fault igniting grasses beneath the pole.

A secondary fire was likely to be caused by a further fault at 3.23am.

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# Reports now available





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