

Christchurch City Council

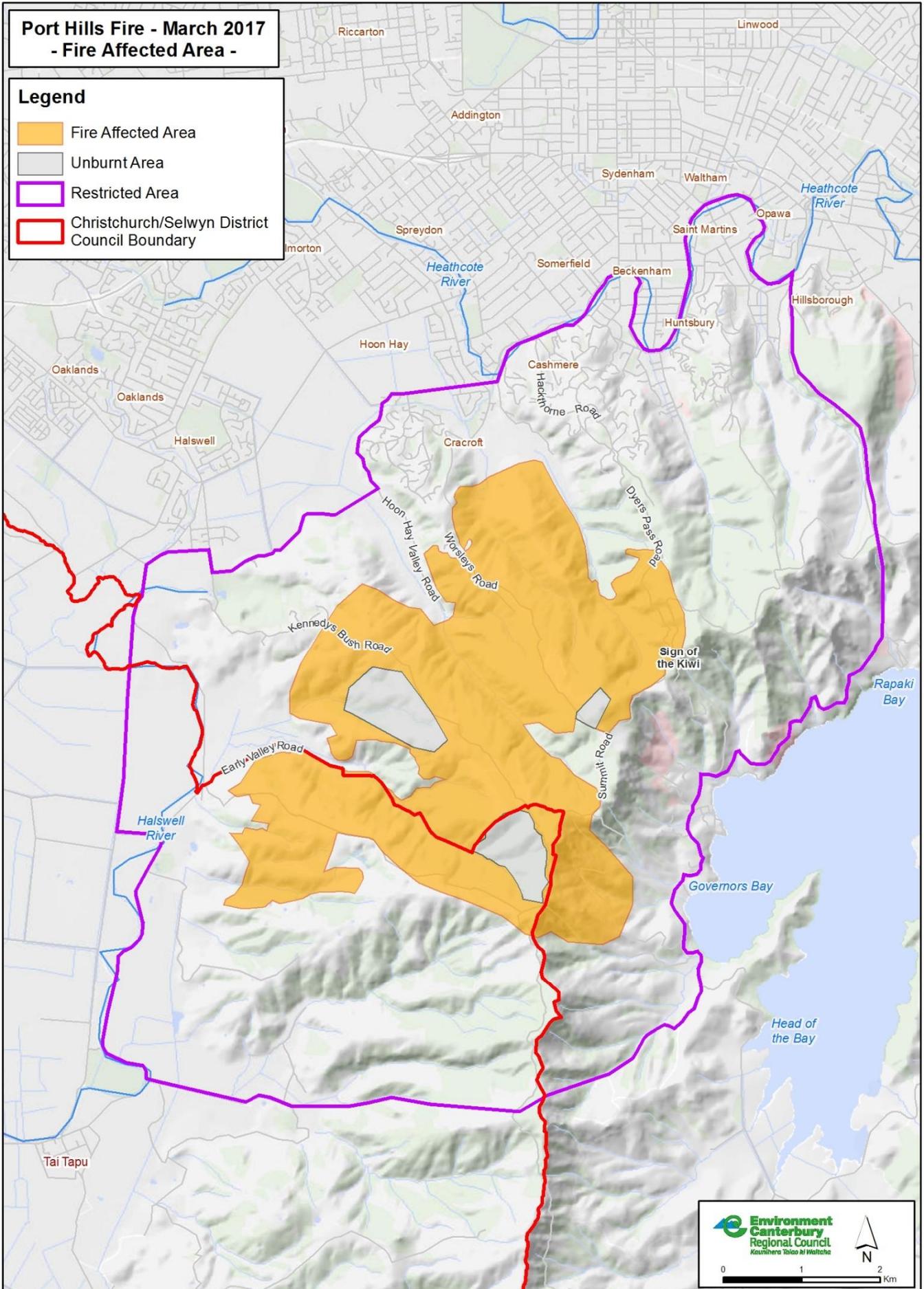
Port Hills Fire Recovery Plan Discussion Document



April 2017

Glossary of Terms

CCC.....	Christchurch City Council
CDEM.....	Civil Defence Emergency Management
CDHB.....	Canterbury District Health Board
DOC.....	Department of Conservation
DPMC.....	Department of Prime Minister and Cabinet
ECAN.....	Environment Canterbury
MBIE.....	Ministry of Business Innovation and Employment
MCDEM.....	Ministry of Civil Defence Emergency Management
MPI.....	Ministry of Primary Industries
MSD.....	Ministry of Social Development
NGO.....	Non-Government Organisation
NZTA.....	New Zealand Transport Agency
NCRST.....	North Canterbury Rural Support Trust
SDC.....	Selwyn District Council
FENZ.....	Fire and Emergency New Zealand



Context

Summary of Event

The Port Hill fires on the boundary between Selwyn District Council and Christchurch City Council started on 13 February 2017. The Early Valley Road and Marley's Hill fires merged following the significant escalation of the fire during the afternoon and evening of Wednesday 15 February 2017.

The fires stretched from Early Valley Road in the west through to Victoria Park in the east, including the hill slopes above Governors Bay/Allandale, above Kennedys Bush, Hoon Hay Valley, urban/rural interface at Westmoreland, Worsleys Road, and Cashmere Valley.

The fire covered an area of 1,645 hectares with a perimeter of 51 kilometres.

Assets compromised included communication repeaters, electricity infrastructure, residential properties, the Christchurch Adventure Park infrastructure, recreation tracks, forestry blocks, ecological reserves, along with water supply infrastructure.

Damage included nine homes completely destroyed, 2 with partial damage and 3 properties outbuilding/sheds damaged. Many other dwelling were impact due to smoke inundation.

An estimated 450 homes were evacuated in the affected areas (approximately 1,000 people). It is estimated that a further 1800 people were required to be evacuated from Westmoreland.

As of 20 March, both Kennedy's Bush track and Worsleys Track (from the end of the sealed road to the Summit road still have cordons in place. Only one home is below the cordon (353 Worsley Road), however access to the property lies outside the cordon.

The fire originated in Early Valley Road (Selwyn District Council area) was managed by the Selwyn Rural Fire Authority. An Incident Management Team (IMT) that was established at the Selwyn District Council (SDC) to manage the fire response.

The fire that started at Marley's Hill was the responsibility of the Department of Conservation (as another Rural Fire Authority) – as the origin of the fire fell within the Department's one kilometre safety margin.

Emergency Operations Centre (EOC) was established at the Christchurch City Council's Civic Office to support the fire response and those residents evacuated from their homes.

A state of emergency was declared on Tuesday, 21 February 2017 (1805hrs) for a period of 7 days. The state of emergency was extended on Tuesday, 28 February 2017 (1805hrs) for a further 7 days i.e. until Tuesday, 1 March 2017 (1805hrs).

Recovery Mandate

At the Canterbury CDEM Group Joint Committee meeting, held 24 February 2017, the following appointments were made:

1. Canterbury Group Recovery Manager (Sandra James),
2. Local Recovery Manager, Christchurch City (Murray Sinclair), and
3. Local Recovery Manager, Selwyn District (Al Lawn).

These appointments were made in relation to the Port Hills fires that commenced on 13 February 2017.

Immediately on the expiry of the State of Emergency, a notice of a 'Local Transition Period' was put in place on Tuesday, 1 March 2017 (effective from 1805hrs) by the Chairperson of the Canterbury CDEM Group (Mayor Lianne Dalzell) for a period of 28 days i.e. until 29 March 2017.

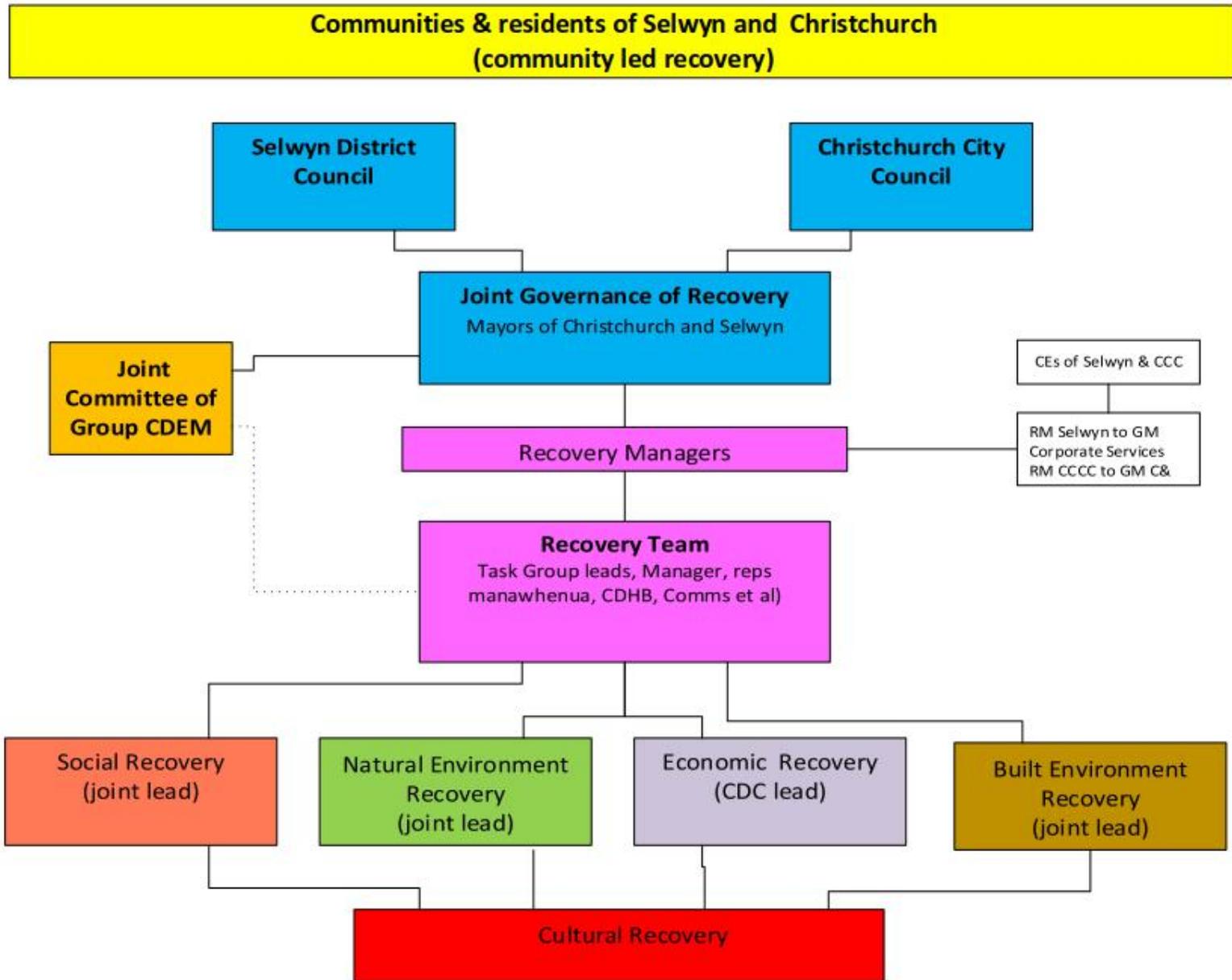
Recovery Plan Purpose

The purpose of this plan is to provide the framework that will enable the provision of coordinated effort and processes that need to be, or have been, put in place to manage the immediate, medium and long term issues in relation to the social, built, economic and natural environments. The plan also addresses some of the issues raised by the community in relation to the responses to the fire events that need future actions.

This Plan is a living document and will be updated as required.

Recovery Goals

1. Hardship is minimised and well-being enhanced for individuals and communities who have suffered losses or damage as a result of the Port Hills fire.
2. Recovery efforts are credible, effective and are supported by robust and transparent processes.
3. Recovery actions are affordable now and in the future.
4. Recovery actions improve the resilience of communities, businesses and infrastructure into the future.



Making the Recovery Plan a Success

It is important that the Recovery Plan has achievable actions, that it is clear who the lead and support agencies / organisations are and that the actions have an appropriate time frame in which to be completed. It is also important that the Recovery Plan sets out its success criteria so that the actions are coordinated, all of which support the successful implementation of the Plan.

A key set of “Draft Indicators of Success” have been discussed with the Community that drives the Recovery plan, these indicators are listed below

- *That those property owners who lost their homes are able to rebuild in a timely and supported manner if they wish to do so or for those wishing to move on are supported through the transition*
- *That commercial property owners and operators are able to recover from the fires and make future returns on their investments*
- *That all reasonable steps are taken to protect and secure access to utility lifelines traversing the Port Hills ensuring that site installations are suitably safeguarded and pose no increased risk of fire events*
- *That concerns of property owners directly affected by the emergency, regarding the way in which emergency agencies dealt with the fire are fully addressed and explained*
- *That residents who live within and close to the Port Hills have a better and more informed understanding of the environment they live, in particularly fire risks, and have a greater awareness of how they can protect themselves, their properties and their neighbours*
- *That future emergency responses from agencies is coordinated, provides adequate information to those persons directly affected, uses established lines of communication, and establishes robust control points and effective registration centres*
- *That the special backdrop the Port Hills provides to the City is returned or is better than before the fires, and that they continue to be a great place for recreational and leisure activities*
- *Working with landowners ensure that surface water runoff and sedimentation risks are managed until regeneration of damaged areas is established and that the felling, clearing and disposing of damaged vegetation is undertaken with minimal adverse effects on the environment and is seen as best practice in its field*
- *That opportunities to enhance the landscapes of the Port Hills as regeneration occurs are well coordinated and encourage native planting and the re population of wildlife*
- *That agencies involved in the long term monitoring of the Port Hills landscapes take appropriate and timely action in conjunction with land owners, to ensure that unwanted plant species are actively managed and controlled to reduce the risks of extreme fire events*
- *That as part of the future landscape of the Port Hills opportunities are taken where practical to reduce / minimise the risks of future extreme fire events*

Draft Recovery Issues and Actions for Discussion

1. Fire Response Issues

Feedback received at the various community meetings held during March 2017	Actions	Agency Responsible	Target date to be completed
A) <i>Cordon Management</i>			
<i>Lack of information available from staff at cordons...how were affected people supposed to find out information?</i>	CDEM agencies meet to investigate steps to improve cordon management for any future event.	Canterbury CDEM Group Office (lead), Police, Fire Service, Canterbury Local Authorities, Chch Transport Operations Centre.	By 30 November 2017
<i>Why was the information about the fire status and evacuation procedures not being given to the people at the cordons?</i>	Implement the processes identified within the Director of the Ministry of Civil Defence & Emergency Management's Guideline on 'Emergency Movement Control [DGL18/15]' produced in August 2015.		
<i>How was it that some people were able to access through cordons and others not?</i>			
<i>How is it that members of the public had information about cordons being closed/open before the Police?</i>			
<i>After registering as an affected household, those people were not informed when the cordon was lifted to allow people to get back to our homes to collect items.</i>			
<i>Why was the information about the fire status and evacuation procedures not being given to the people at the cordons?</i>			
<i>Registration wasn't taken at cordons as some residents were allowed back.</i>			
<i>When allowing people back into their homes for a short period, cordon staff weren't registering people as they were entering/leaving or telling them how long they could stay.</i>			
<i>Is there an Emergency text system?</i>			

Feedback received at the various community meetings held during March 2017	Actions	Agency Responsible	Target date to be completed
<i>Why couldn't Civil Defence and cordon staff tell us who to contact with specific requests?</i>			
B) Evacuations			
<i>After the State of Emergency was declared, if we went to the CCC or Civil Defence website, we had to go to Facebook for answers.</i>			
<i>Was there a registration process for evacuees?</i>			
<i>People weren't getting information about when they could go home etc? No one seemed to know (even at the Welfare Centre)</i>			
C) Information Management			
<i>There needs to be one source of truth.</i>			
<i>Why did it take until Saturday for any proper communication channels to start?</i>			
<i>Why did people directly affected by the fire get treated as if they were ordinary members of the public, when they required specific information and support?</i>			
<i>How often was the Civil Defence website updated? Is there a policy as to how frequent it should be updated?</i>			
<i>Can Civil Defence put in a transparent information system that reassures the public that lessons have been learnt?</i>			
<i>What is Civil Defence? Who are they? How do you contact them?</i>			

Feedback received at the various community meetings held during March 2017	Actions	Agency Responsible	Target date to be completed
<i>Should be able to be access property owner information from Council rates database and Library's database etc. This would include mobile phone numbers, email addresses...</i>	Council to ensure as part of the 'My Council' project (property owner contact information – a single source) is able to be used during future emergencies and shared with Emergency Service agencies.	CCC – Customer Services Unit	

<i>D) Damage from the Fire</i>			
<i>The Fire Service chopped trees on my property – who is responsible for clearing large stumps / mulching / removal and who pays for this?</i>			
<i>What support is available to repair the fire break areas on landowner land?</i>			
<i>What support is there for erosion control on landowner land?</i>			

<i>E) Other</i>			
<i>What is the plan with Worsleys Track – what is happening with the erosion of the land on the track?</i>			
<i>How are the CCC going to stop 4WD's going up Worsleys Track? There is an opportunity to make this a fantastic walking/biking track with native plants.</i>			
<i>Will a list of fire "safe" plants / landscaping be made available?</i>			
<i>Are CCC planning to build multi-purpose ponds to capture hill sediment and create water holding capacity for firefighting?</i>			
<i>What steps the Council will take around at-risk grass, fire breaks, plantings, communication of fire bans?</i>			

Feedback received at the various community meetings held during March 2017	Actions	Agency Responsible	Target date to be completed
<i>What can residents do to avoid future events?</i>			
<i>What is happening with the bare sections re: gorse including the huge amount of gorse that was up Worsleys Track?</i>			
<i>What action will be taken to repair the berms and damage on Worsleys Rd?</i>			
<i>What is Council doing about fire planning going forward?</i>			
<i>Will there be an enquiry about why no fire appliances on Worsleys Road before 3.00 pm?</i>			
<i>How do we ensure we create and maintain fire breaks?</i>			
<i>What are future council initiatives/regulations to contain wilding pines, gorse and broom on the recently burnt land?</i>			
<i>Is it really a good idea having commercial pine plantations that close to settlements? Is it something that can be changed?</i>			
<i>Why were some people contacted by text and others door knocked?</i>			
<i>Why was the Council so slow in setting up a register for affected residents?</i>			
<i>Was there a registration process for evacuees?</i>			

1B Fire Response Issues and Actions

Short term recovery issues	Actions	Agency Responsible	Target date to be completed
Cordon management	Manage the remaining cordons on Worsleys and Kennedys Bush Tracks until such time that they are no longer necessary Manage access to fire damaged areas as necessary	CTOC	ongoing
Public perception and understanding of the Port Hills Fires	Ensure that the terms of reference for any emergency services operational reviews planned cover all aspects of Community concerns, if they don't consider whether any additional investigations are necessary	CCC	

Medium term recovery issues	Medium term recovery actions	Agency Responsible	Target date to be completed
Public Information	Improve both the information provided and the process for keeping residents informed regarding evacuations, in particular: <ul style="list-style-type: none"> · directly affected residents; · those who register at CD Centres; · those who front up at the cordon control point; · ability to register at the cordon control point; · Up-to-date information available at the cordon control point 	CCC	On-going
Ensure the MCDEM Director's Guideline 'Emergency Movement Control' {DGL18/15} is implemented and used by appropriate agencies during future emergencies.	Multi-agency planning is undertaken to adopt the Director's Guideline	Canterbury CDEM Group Office	2017/18
Pre-planned evacuations processes are in place for all Port Hills communities	Pre-planned evacuations processes are initiated for Worsleys, Marleys Hill, Kennedys Bush, Hoon Hay and Early Valley communities living on or close to the Port Hills	CDEM Group	2019
Public perception and understanding of the Port Hills Fires	Ensure that all reviews or reports relating to the Port Hills Fires is made available to the Public		

Long term recovery issues	Long term recovery actions	Agency Responsible	Target date to be completed
Pre-planned evacuations processes are in place for all Port Hills communities	Develop pre planning evacuation plans for the remaining communities living on or close to the Port Hills where fire risks are identified	CDEM Group	2022

2. Social Environment Recovery Issues and Actions

Short term recovery issues	Actions	Agency Responsible	Target date to be completed
Support residents to access assistance to clean up their property	Refer residents to appropriate volunteer programmes/organisations as appropriate.		ongoing
Community support: engaging and harnessing the energy of individuals, community groups who want to help in the recovery of private property clean up	CCC Community Governance team work with affected resident and community groups. Role of volunteer manager??		ongoing
Clear provision of information to support in recovery	Assessing the impact on the affected residents and sharing with Council or other agencies as necessary		ongoing
Residents are aware of personnel and the agency they represent, that are under the civil defence umbrella i.e. who is Civil Defence?	As part of Get Ready Week – promote what agencies fall under the umbrella of Civil Defence, ie how Civil Defence works.		30 th June 2017
Support for the most significantly affected	Identify the most significantly affected. Agencies determine the response that can be provided immediately during event and ongoing during initial recovery.		Completed completed
Determining the number of those most affected are assigned a liaison manager	Assign a liaison manager as appropriate. Regular contact by the liaison manager to ascertain key issues, Referral to appropriate welfare agencies (e.g. CDHB\, MSD etc). Ensuring follow up with agencies to confirm referrals are actioned Welfare agencies collaborate & support as appropriate.	CCC	Completed Ongoing Ongoing Ongoing ongoing
Public perception and understanding of the Port Hills Fires	Reviews and debriefs, presentations by experts.		ongoing
Affected communities to understand the event they have experienced.	Community meetings		completed

Medium term recovery issues	Actions	Agency Responsible	Target date to be completed
Ongoing communications during recovery	Identify the appropriate ongoing communications mechanisms during recovery through the development of a communication plan.		2017/18
Support provided to assist with property owner's recovery needs	Hand over to appropriate agencies to ensure the recovery process meets individual's material needs eg rebuilding damaged property and clean up etc. Develop mechanisms for support.		2017/18
Public education re: preparedness	CDEM staff undertake a public education campaign on what agencies make up Civil Defence, including the role of local community groups during response and recovery. Link affected communities to work currently being done around community response plans. Support current community preparedness and response activity.		2017/18
Understanding the role of agencies to provide ongoing support, eg the role Victims Support plays	Meet with Police and Victims Support to ensure adequate services are provided by an appropriate agency/agencies in future events.		2017/18
Significantly affected people are involved in the Fire Review process	Ensure that they have a say		2017
Individual residents do not feel they have been heard	Some individuals will recover from the impact of the event faster than others – requires agencies understanding that initial timeframes for assistance may need to be determined on a case by case basis		2017/18

Long term recovery issues	Actions	Agency Responsible	Target date to be completed
Lessons learnt, community preparedness that can be applied across the City, regionally and nationally	<p>Ongoing development of public education programmes run at local, regional and national levels on living in rural environments, with the risk of fire.</p> <p>As part of district plan reviews, look at small lifestyle blocks in urban/rural areas (see Built Environment)</p> <p>Canterbury CDEM Risk Reduction group considers the above points (and other issues arising from this Recovery Plan).</p>	<p>FENZ</p> <p>Council</p> <p>Canterbury CDEM Risk Reduction Group</p>	2018/19 onwards
Lack of preparedness and understanding of hazards/risk facing our communities	<p>Communities develop plans/steps to respond to future events i.e. strengthen community resilience by learning from this event and taking ownership for preparedness.</p> <p>CDEM & Community Governance Teams support communities in the development of community resilience plans.</p>		2018/19 onwards
Community connectedness			2018/19 onwards
Ensuring insurance cover is adequate	Promotion and education regularly initiated to get message across	Insurance Council	2018/19 onwards

3. Natural Environment Recovery Issues and Actions

Short term recovery issues	Short term recovery actions	Agency Responsible	Date to be completed
Full reconnaissance and assessment of damage to all natural resources.	Undertake Mapping of area to show location of damage Initiate and complete assessment of damaged areas	CCC, DOC, SDC, Trusts and Society's,	completed ongoing
Initial Assessment of Maori cultural sites	Initiate Cultural Values Report		ongoing
Increased risks of sedimentation and surface water runoff associated with sites in burnt and damaged areas that could adversely affect water quality.	Identify priority areas that require immediate mitigation Undertake initial assessment and recommend appropriate mitigation measures with costs for each priority location Monitor significant rainfall events and take action where necessary	CCC, City Services ECAN Environmental Groups SDC	completed ongoing ongoing
Increased risk of rock fall and slope stability issues within the fire damaged areas.	Identify priority areas that require immediate mitigation Undertake initial assessment and recommend appropriate mitigation measures with costs for each priority location Monitor significant rainfall events and take action where necessary	CCC Geotech specialist SDC	Completed Ongoing ongoing
Increased contamination and nuisance issues e.g air borne particulate,	Undertake environmental monitoring following the fire event and when climatic conditions may cause issues	ECAN	ongoing

Short term recovery issues	Short term recovery actions	Agency Responsible	Date to be completed
Regeneration of the damaged areas on the Port Hills	<p>Identify immediate needs to enable priority work to be carried out during the 2017 autumn planting season</p> <p>Engage and harnessing the knowledge and energy of individuals, property owners, community and groups who want to help in recovery.</p> <p>Ensure that any CCC funding for restoration / regeneration programme for 2017/18 and is included in the Annual plan</p> <p>Compile stakeholder list and contact stakeholders/landowners to identify engagement required.</p>	CCC to discuss with Banks Peninsula Conservation Trust	<p>Ongoing</p> <p>ongoing</p> <p>ongoing</p> <p>ongoing</p>
Opening of Council Tracks and Parks for recreational use	<p>Undertake assessments and open tracks when safe to do so</p> <p>Identify those tracks where restrictions may be needed and implement measures necessary</p> <p>Support the Christchurch Adventure Park to re-establish recreational facilities</p>	CCC DOC	<p>Completed</p> <p>Completed</p> <p>ongoing</p>
Reinstatement of fencing to public areas	<p>Identify fence lines damaged and assess appropriate repair work necessary</p> <p>Undertake the necessary repairs to fence lines that require urgent attention to manage stock or restrict access</p>	CCC Neighbouring land owners	<p>Ongoing</p> <p>ongoing</p>

Long term recovery issues	Long term recovery actions	Agency Responsible	Date to be completed
Increased risks of sedimentation and surface water runoff associated with sites in burnt and damaged areas that could adversely affect water quality.	Secure funding for long term mitigation measures and implement works programme Continue to monitor significant rainfall events and take action where necessary	CCC, City Services ECAN Environmental Groups SDC	2018/19 and beyond As necessary
Increased risk of unwanted plant and animal pest control	Continue to monitor and manage issues through Regional Pest Plan	Ecan	2018/19 and beyond
Ensure that clearing and replanting of damaged forest areas does not adversely impact on the natural environment	Continue to provide help and support to land owners to plan and undertake clearing and planting works Land owners clear and replant damaged land areas within the guidelines and consent requirements agreed Undertake environmental monitoring as deemed necessary	Land owners CCC SDC Ecan	2018/19 and beyond
Planning opportunities to reduce wild fire hazard risks in high risk areas	Undertake a review of the current District Plan particularly looking at conditions placed on land owners to design developments to minimise or mitigate fire hazard, water supply / storage requirements and landscaping and fuel build up.	CCC	2019/20
Management and use of Public and private land to reduce fire hazards	Refer to the review of the Strategic Fire Management Plan (SFMP) Undertake a feasibility study and investigation into future grazing regimes, water supplies, fuel management and public access From the study recommend any changes	CCC FENZ DOC	2019/20
Availability and access to natural water sources (ponds) for future fire-fighting	Refer to the review of the Strategic Fire Management Plan (SFMP) Review current availability and access to potential water source for fire-fighting If review identifies a need for additional water sources undertake feasibility study to explore options	FENZ	2019/20

4. Built Environment Recovery Issues and Actions

Short term recovery issues	Short term recovery actions	Agency Responsible	Target date to be completed
Supply of Services interrupted or damaged	Services are restored to properties impacted by the fires and for those properties destroyed, services are disconnected or made safe Property owners repair damage to their private systems	Service providers Property owners	Completed completed
That access and egress from the fire damaged areas and neighbouring areas around the Port Hills is maintained and safe	Traffic management plans in place where required	CTOC City Services	completed
That key communication sites located on the Port Hills remain operational	Communication sites are inspected and immediate risks to installations minimised Fire breaks strengthen or created to protect installations as part of the fire response	Property owners and site operators	completed
That key lifeline services are maintained	Utility lifeline routes across the Fire area are inspected and remedial actions take where necessary Replacement of composite insulators to the effected part of the overhead lines	Transpower	completed
Residential property damage is identified	Properties destroyed and damaged identified and initial support provided to owners Contact made with owners and meeting held to identify key issues of concern and help, ongoing support provided where needed	Recovery Agencies	Completed ongoing
Protection of the Public	Restricting access to fire damaged areas particularly where boundary fencing has been destroyed or damaged Worsleys track and Kennedys Bush tracks remain closed, tracks to be open once risks are minimised	CCC and property owners	ongoing

Short term recovery issues	Short term recovery actions	Agency Responsible	Target date to be completed
Understanding damage to key forestry blocks	Liaise with McVicar's Forestry as they undertake damage assessment and understand the impact on the Adventure park CCC providing support where required and regular meetings held to review and update situation	McVicar's and Adventure Park	ongoing
Establishing the scale of damage to properties in terms of fencing and landscaping as a result of the fire and the fire response actions	Discussions held with the property owners affected to establish needs and matching this to resources	CCC, property owners and supporting agencies	Ongoing
	Mapping of fire area		Completed
	Mapping of fire breaks created		completed
Understand slope stability issues and rock fall on the built environment e.g properties, roads and utility and communications installations	Identify priority areas that require immediate mitigation	CCC Geotech specialist	Completed
	Undertake initial assessment and recommend appropriate mitigation measures with costs for each priority location		Ongoing
	Monitor significant rainfall events and take action where necessary		ongoing

Medium term recovery issues	Medium term recovery actions	Agency Responsible	Date to be completed
Understand future risks of service interruptions	Review risks to utility installations and infrastructure to minimise future disruptions to supplies and prepare plan and secure funding to undertake mitigation measures where they are deemed necessary	Orion Transpower	31 March 2018
	Review the provision of public water supply infrastructure to support firefighting capabilities on the Port Hills and if appropriate prepare plan and costs to strengthen the network	City Services, FENZ	

Medium term recovery issues	Medium term recovery actions	Agency Responsible	Date to be completed
Understand future risks to communications installations	Review fire hazards to communication installations located on the Port Hills to minimise future risks to sites, prepare mitigation plan if risks identified and secure funding source	Site owners and operators	31 March 2018
Support for property owners that lost their homes	For property owners that lost their homes ensure that they are supported through the rebuild or transition process so that they can achieve the outcome they wish	CCC, Ecan, property owners, Insurance companies	2018/19
Support for property owners where their properties were damaged	That property owners whose properties were damaged by the fires and the firefighting response are helped with repairs and restoration	Support agencies, property owners	2018/19
Supporting the Adventure Park reopening	Support and identify any help or guidance to enable the Adventure Park to be opened as quickly as possible	Adventure Park, McVicar's	2018
That clearing and restoration of Forestry Blocks is undertaken appropriately	That the forestry blocks damaged by the fires have appropriate plans and consents in place to undertake work to clear and replant the areas and that work is underway as soon as possible	Forestry Block owners CCC Ecan	2017/18
Education and information on fire risks	That those property owners living on or adjacent to the Port Hills are well informed of the environment they live and they understand the risks of wild fires and have their own plans in place through regular education and fire risks promotion	Fire Service, CCC, property owners	2018/19
Understand slope stability issues and rock fall on the built environment e.g properties, roads and utility and communications installations	Undertake further assessments and recommend appropriate mitigation measures should further issues be identified Monitor significant rainfall events and take action where necessary	CCC Geotech specialist SDC	2017/18 As necessary

Long term recovery issues	Long term recovery actions	Agency Responsible	Date to be completed
Understand future risks of service interruptions	<p>Utility services initiate planned mitigations measures to reduce risks to supply interruptions and potential damage to infrastructure and installations</p> <p>If appropriate implement plans to strengthen public water supply network to support firefighting</p>	<p>City Services Orion Transpower</p>	2020
Understand future risks to communications installations	Communication site owners and operators initiate planned mitigations measures to reduce risks to installations and potential damage to infrastructure	Site owners and operators	2020
That reestablishment of forest areas damaged by the fires is completed	That clearing and replanting plans and programmes are supported and assistance given where appropriate	Forestry block owners	2022
That repairs and regeneration of fire and firefighting damage to properties is completed	That owners rebuild as soon as possible and are well supported by agencies	Property Owners	2022
Education and information on fire risks	That property owners living on or adjacent to the Port Hills are regular reminded of the dangers of wild fires and are adequately aware of their own responsibilities	Property Owners FENZ	ongoing
Planning opportunities to reduce wild fire hazard risks in high risk areas	From the review of the current District Plan particularly looking at conditions placed on land owners to design developments to minimise or mitigate fire hazard, water supply / storage requirements and landscaping and fuel build-up, initiate any identified and recommended changes	<p>CCC Canterbury Civil Defence Group (risk reduction group)</p>	2020

5. Economic Environment Recovery Issues and Actions

Short term recovery issues	Short term recovery actions	Agency Responsible	Target date to be completed
Ensure that businesses disrupted by the Fires fighting, cordons and evacuations are able to reopen as quickly as possible to minimise their losses	Support local businesses impacted by the fires to re-establish as quickly as possible if practical to do so For those businesses where they are unable to open in the short term help and support is provided as required	Fire Authorities CCC Business owners	Completed ongoing
Supporting those businesses suffering significant impacts caused by the fires	Understand business owners concerns and insurance situation and provide help and assistance where possible	CCC Business Owners	completed

Medium term recovery issues	Medium term recovery actions	Agency Responsible	Target date to be completed
Continue to provide help and support where needed to businesses	Continue to liaise and understand issues and provide support where necessary	Business owner	ongoing
Understand the impact of the Fires on the Christchurch Adventure Park	Support them where possible to enable them to reopen	Christchurch Adventure Park	2018
Understand the impact of the Fires on the key forestry blocks	Provide support where possible	Forestry Block Owners	2018

Long term recovery issues	Long term recovery actions	Agency Responsible	Target date to be completed
That the Christchurch Adventure Park remains a great local, national and International venue	Agencies liaise closely with the Park owners and provide help and assistance where appropriate	Christchurch Adventure Park	2022
That the damaged forestry blocks are re generated successfully and continue to support the iconic back drop to the City	Agencies liaise closely with the Forestry Owners and provide help and assistance where appropriate	Forestry block owner's	2022

6. Communications & Information Issues and Actions

Short term recovery issues	Short term recovery actions	Agency Responsible	Target date to be completed
Input into Recovery through effective Communications Plan to update community	Initiate Communications Plan to support Recovery Input into Recovery Coms plan as necessary Co-ordinate or centralise web-site and other media outlets to standardise information.	CCC SDC	Completed 30th June 2017 30th June 2017
Keep communities and affected residents informed	Ensured targeted information and advice is provided through agreed mediums	CCC	ongoing

Medium term recovery issues	Medium term recovery actions	Agency Responsible	Date to be completed
Keep communities and affected residents informed	Maintain and review Communication Plan to ensure it remains effective	CCC	2017/18
Improve and target communications to affected property owners when evacuations occur		CCC	2017/18
Improve the planning, set up and ongoing management of cordons as recommended in the "Emergency Movement Control" guidelines and ensure that they are adopted		CCC Civil Defence	2017/18

Long term recovery issues	Long term recovery actions	Agency Responsible	Date to be completed
Keep communities and affected residents informed	Maintain and review Communication Plan to ensure it remains effective	CCC	2018/19 onwards

7. Cultural Impacts and Actions

Short term recovery issues	Short term recovery actions	Agency Responsible	Target date to be completed
<p>Maori Land and Reserves</p> <p>Need to resettle the mauri due to:</p> <ol style="list-style-type: none"> 1. Scarring of Papatūānuku eg fire breaks 2. Denuding of Papatūānuku e.g. erosion and sediment 3. Degradation of wai e.g. sediment into the waterways 4. Burning of our ancestors i.e. recognition that mountains are our ancestors <p>Need to address as a priority</p> <ol style="list-style-type: none"> 1. Health of the waterways 2. Health of the community 3. Future proofing 4. Endemic plantings 5. Maintaining the sacred places – he tapu te mahunga. <p>Improved communications</p> <ol style="list-style-type: none"> 1. For the people of Rāpaki 2. With the people of Rāpaki 3. Early warning system for all rural communities 4. Māori worldview of Papatūānuku, Ranginui me ā rāua tamariki 5. Tribal stories about the Port Hills <p>Māori land</p> <ol style="list-style-type: none"> 1. Issues of multiple ownership 2. Future proofing 	<p>Initiate Draft Cultural Values Report to help with:</p> <ul style="list-style-type: none"> • Understanding of mauri, tapu, noa and other cultural concepts. • Understanding of Māori worldview re the continuous connection from the heavens to land/sky/water to people. • Ngāi Tahu communities (rūnanga) have a desire to be an active part of the solution – is there a role for tangata tiaki? <p>Information sharing with individual rūnanga</p> <p>Instruction from individual rūnanga to Mahaanui Kura Taiao on the expectations in the environmental space</p> <p>Increasing the awareness with the individual rūnanga to drive solution based responses.</p> <p>Resourcing of rūnanga champions to drive the engagement, discussion and enacting of solutions</p>	<p>Te Ngāi Tūahuriri</p> <p>Te Hapū o Ngāti Wheke</p> <p>Te Taumutu Rūnanga</p> <p>Mahaanui Kura Taiao</p>	<p>30 June 2017</p>

Short term recovery issues	Short term recovery actions	Agency Responsible	Target date to be completed
<p>Silent Files and Taonga</p> <p>Impact on areas of cultural significance</p> <p>Future proofing cultural sites</p> <p>He tapu te mahunga – keeping the heads of our ancestors sacred.</p>	<p>Initiate Draft Cultural Values Report to help with:</p> <ul style="list-style-type: none"> · Understanding of mauri, tapu, noa and other cultural concepts. · Understanding of Māori worldview re the continuous connection from the heavens to land/sky/water to people. · Ngāi Tahu communities (rūnanga) have a desire to be an active part of the solution – is there a role for tangata tiaki? <p>Information sharing with individual rūnanga</p> <p>Instruction from individual rūnanga to Mahaanui Kura Taiao on the expectations in the environmental space</p> <p>Increasing the awareness with the individual rūnanga to drive solution based responses.</p> <p>Resourcing of rūnanga champions to drive the engagement, discussion and enacting of solutions</p>	<p>Te Ngāi Tūahuriri</p> <p>Te Hapū o Ngāti Wheke</p> <p>Te Taumutu Rūnanga</p>	<p>30 June 2017</p>

Medium term recovery issues	Medium term recovery actions	Agency Responsible	Date to be completed
<p>Maori Land and Reserves</p> <p>Need to resettle the mauri due to:</p> <ol style="list-style-type: none"> 1. Scarring of Papatūānuku eg fire breaks 2. Denuding of Papatūānuku e.g. erosion and sediment 3. Degradation of wai e.g. sediment into the waterways 4. Burning of our ancestors i.e. recognition that mountains are our ancestors <p>Need to address as a priority</p> <ol style="list-style-type: none"> 1. Health of the waterways 2. Health of the community 3. Future proofing 4. Endemic plantings 5. Maintaining the sacred places – he tapu te mahunga. <p>Improved communications</p> <ol style="list-style-type: none"> 1. For the people of Rāpaki 2. With the people of Rāpaki 3. Early warning system for all rural communities 4. Māori worldview of Papatūānuku, Ranginui me ā rāua tamariki 5. Tribal stories about the Port Hills <p>Māori land</p> <ol style="list-style-type: none"> 1. Issues of multiple ownership 2. Future proofing 	<p>Completed Cultural Values Report is used to inform:</p> <ul style="list-style-type: none"> • Understanding of mauri, tapu, noa and other cultural concepts. • Understanding of Māori worldview re the continuous connection from the heavens to land/sky/water to people. • Ngāi Tahu communities (rūnanga) have a desire to be an active part of the solution – is there a role for tangata tiaki? <p>Ongoing commitment by the Crown to assist with healing Papatūānuku</p> <p>Government and agencies to work alongside individual rūnanga on future proofing</p>	<p>Te Ngāi Tūahuriri</p> <p>Te Hapū o Ngāti Wheke</p> <p>Te Taumutu Rūnanga</p> <p>Mahaanui Kura Taiao</p>	<p>30 June 2018</p>
<p>Silent Files and Taonga</p> <p>Impact on areas of cultural significance</p> <p>Future proofing cultural sites</p> <p>He tapu te mahunga – keeping the heads of our ancestors sacred.</p>	<p>Completed Cultural Values Report is used to inform:</p> <ul style="list-style-type: none"> • Understanding of mauri, tapu, noa and other cultural concepts. • Understanding of Māori worldview re the continuous connection from the heavens to land/sky/water to people. • Ngāi Tahu communities (rūnanga) have a desire to be an active part of the solution – is there a role for tangata tiaki? <p>Ongoing commitment by the Crown to assist with healing Papatūānuku</p> <p>Government and agencies to work alongside individual rūnanga on future proofing</p>	<p>Te Ngāi Tūahuriri</p> <p>Te Hapū o Ngāti Wheke</p> <p>Te Taumutu Rūnanga</p>	<p>30 June 2018</p>

Long term recovery issues	Long term recovery actions	Agency Responsible	Date to be completed
<p>Maori Land and Reserves</p> <p>Need to resettle the mauri due to:</p> <ol style="list-style-type: none"> 1. Scarring of Papatūānuku eg fire breaks 2. Denuding of Papatūānuku e.g. erosion and sediment 3. Degradation of wai e.g. sediment into the waterways 4. Burning of our ancestors i.e. recognition that mountains are our ancestors <p>Need to address as a priority</p> <ol style="list-style-type: none"> 1. Health of the waterways 2. Health of the community 3. Future proofing 4. Endemic plantings 5. Maintaining the sacred places – he tapu te mahunga. <p>Improved communications</p> <ol style="list-style-type: none"> 1. For the people of Rāpaki 2. With the people of Rāpaki 3. Early warning system for all rural communities 4. Māori worldview of Papatūānuku, Ranginui me ā rāua tamariki 5. Tribal stories about the Port Hills <p>Māori land</p> <ol style="list-style-type: none"> 1. Issues of multiple ownership 2. Future proofing 	<p>Completed Cultural Values Report is used to inform:</p> <ul style="list-style-type: none"> • Understanding of mauri, tapu, noa and other cultural concepts. • Understanding of Māori worldview re the continuous connection from the heavens to land/sky/water to people. • Ngāi Tahu communities (rūnanga) have a desire to be an active part of the solution – is there a role for tangata tiaki? <p>Ongoing commitment by the Crown to assist with healing Papatūānuku</p> <p>Government and agencies to work alongside individual rūnanga on future proofing</p>	<p>Te Ngāi Tūahuriri Te Hapū o Ngāti Wheke Te Taumutu Rūnanga Mahaanui Kura Taiao</p>	<p>2018/19 onwards</p>
<p>Silent Files and Taonga</p> <p>Impact on areas of cultural significance</p> <p>Future proofing cultural sites</p> <p>He tapu te mahunga – keeping the heads of our ancestors sacred.</p>	<p>Completed Cultural Values Report is used to inform:</p> <ul style="list-style-type: none"> • Understanding of mauri, tapu, noa and other cultural concepts. • Understanding of Māori worldview re the continuous connection from the heavens to land/sky/water to people. • Ngāi Tahu communities (rūnanga) have a desire to be an active part of the solution – is there a role for tangata tiaki? <p>Ongoing commitment by the Crown to assist with healing Papatūānuku</p> <p>Government and agencies to work alongside individual rūnanga on future proofing</p>	<p>Te Ngāi Tūahuriri Te Hapū o Ngāti Wheke Te Taumutu Rūnanga</p>	<p>2018/19 Onwards</p>