

Canterbury Waste Joint Committee

AGENDA

Notice of Meeting:

A meeting of the Canterbury Waste Joint Committee will be held on:

Date: Monday 5 August 2024
Time: 12 pm
Venue: Council Chambers, Level 2 Civic Offices,
53 Hereford Street, Christchurch

Membership

Chairperson	Councillor Kelly Barber - Christchurch City Council
Deputy	Councillor Robbie Brine - Waimakariri District Council
Members	Councillor Scott Aronsen - Mackenzie District Council
	Councillor John Begg - Waimate District Council
	Councillor Joe Davies - Environment Canterbury
	Councillor David East - Environment Canterbury
	Councillor James Gough - Christchurch City Council
	Councillor Kevin Heays - Kaikoura District Council
	Councillor David Hislop - Hurunui District Council
	Councillor Liz McMillan - Ashburton District Council
	Councillor Grant Miller - Selwyn District Council
	Councillor Gavin Oliver - Timaru District Council
	Councillor Mark Peters - Christchurch City Council

19 July 2024

Principal Advisor

Brent Smith

Acting General Manager City Infrastructure

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Karakia Tīmatanga

1. Apologies Ngā Whakapāha

At the close of the agenda no apologies had been received.

2. Declarations of Interest Ngā Whakapuaki Aronga

Members are reminded of the need to be vigilant and to stand aside from decision making when a conflict arises between their role as an elected representative and any private or other external interest they might have.

3. Confirmation of Previous Minutes Te Whakaāe o te hui o mua

That the minutes of the Canterbury Waste Joint Committee meeting held on [Monday, 8 April 2024](#) be confirmed (refer page 5).

Canterbury Waste Joint Committee OPEN MINUTES

Date: Monday 8 April 2024
Time: 12.31 pm
Venue: Council Chambers, Civic Offices,
53 Hereford Street, Christchurch

Present

Chairperson Councillor Kelly Barber - Christchurch City Council
Deputy Councillor Robbie Brine - Waimakariri District Council
Members Councillor John Begg - Waimate District Council (via audiovisual link)
Councillor Joe Davies - Environment Canterbury
Councillor David East - Environment Canterbury
Councillor James Gough - Christchurch City Council
Councillor Liz McMillan - Ashburton District Council
Mayor Anne Munro – Mackenzie District Council
Councillor Grant Miller - Selwyn District Council
Councillor Mark Peters - Christchurch City Council

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Karakia Tīmatanga: Given by all.

The agenda was dealt with in the following order.

1. Apologies Ngā Whakapāha

Joint Committee Resolved CJWC/2024/00001

That the apology received from Councillor Hislop for absence be accepted.

Councillor East/Councillor Peters

Carried

2. Declarations of Interest Ngā Whakapuaki Aronga

There were no declarations of interest recorded.

3. Confirmation of Previous Minutes Te Whakaāe o te hui o mua

Joint Committee Resolved CJWC/2024/00002

That the minutes of the Canterbury Waste Joint Committee meeting held on Wednesday, 3 April 2024 be confirmed.

Chairperson Barber/Councillor Davies

Carried

5. Regional Waste Data Collection

Committee Comment

1. Duncan Wilson from Eunomia Research & Consulting provided a PowerPoint presentation to the Committee. A copy of that presentation is attached.
2. The Committee clarified that the staff investigation and report into options for regional waste data collection methodology would include options other than the one presented by Eunomia.

Joint Committee Resolved CJWC/2024/00003

Officer Recommendations accepted without change.

Part C

That the Canterbury Waste Joint Committee:

1. Receive the information presented by Eunomia Research & Consulting on the mechanisms behind the collation of waste data on a regional level, from the perspective of the Waste Operator and Licensing Data System ("WOLDS") project in the North Island.

2. Instruct staff to investigate and report back on options for regional waste data collection methodology and how this could contribute to a regional waste action plan or regional circular economy projects.

Councillor Davies/Councillor Peters

Carried

Attachments

- A Eunomia PowerPoint presentation on mechanisms behind collation of waste data on a regional level

Councillor Gough left the meeting at 12.48pm and returned at 12.53pm during consideration of Item 5.

4. Ōtautahi Christchurch Regional Organics Processing Facility Update **Joint Committee Resolved CJWC/2024/00004**

Officer Recommendation accepted without change.

Part C

That the Canterbury Waste Joint Committee:

1. Receive the information in the Ōtautahi Christchurch Regional Organics Processing Facility Update Report.

Councillor McMillan/Councillor Brine

Carried

6. Canterbury Waste Joint Committee Staff Group Update **Committee Comment**

1. Staff provided a visual of the promotional material to be used by Member Councils to advertise the Waste Minimisation Grant. A copy of this material is attached.
2. The Committee requested information relating to the applications to the collaborative fund be pre-circulated prior to the workshop.
3. The Committee requested a high-level overview of Disaster Waste Management Planning and any feedback from the national workshop held on 13 March 2024.

Joint Committee Resolved CJWC/2024/00005

Officer Recommendations accepted without change.

Part C

That the Canterbury Waste Joint Committee:

1. Receive the information in the Canterbury Waste Joint Committee Staff Group Update Report.
2. Consider the option of a workshop to discuss applications to the collaborative fund prior to the committee meeting on the 5th of August, where funds are allocated.

Chairperson Barber/Councillor Peters

Carried

Attachments

A Waste Minimisation Advertising Material

Councillor Gough left the meeting at 1.15pm during consideration of Item 6.

Karakia Whakamutunga: Given by all.

Meeting concluded at 1.17pm.

CONFIRMED THIS 5th DAY OF AUGUST 2024.

**COUNCILLOR KELLY BARBER
CHAIRPERSON**

4. Disaster Waste Management Update

Reference Te Tohutoro: 24/1185712

Responsible Officer(s) Te Pou Matua: Eilidh Hilson, Regional Waste Projects Facilitator

Accountable ELT Member Pouwhakarae: Brent Smith, Acting General Manager City Infrastructure

1. Purpose and Origin of the Report Te Pūtake Pūrongo

- 1.1 At the previous Canterbury Waste Joint Committee meeting on 8 April 2024, the Committee requested a high - level overview of Disaster Waste Management Planning and any feedback from the national workshop held on 13 March 2024.
- 1.2 This report is staff generated.

2. Officer Recommendations Ngā Tūtohu

That the Canterbury Waste Joint Committee:

1. Receives the information in the Disaster Waste Management Update Report.


3. Background/Context Te Horopaki

- 3.1 A national workshop on planning for the management of solid waste generated in disaster scenarios, was facilitated by the Waste Management Institute of New Zealand (WasteMINZ) on the 13th of March 2024. There was an opportunity to attend in person at Civic Offices in Christchurch.
- 3.2 Attendees (regional, city and district council staff from Resource Recovery, Contaminated Land, Civil Defence, and representatives from key contractors), heard presentations on recent case studies. This was followed by a regional collaboration session to address key considerations.
- 3.3 The committee were informed of this activity in the meeting, via the staff group update. The Committee requested further information.
- 3.4 Feedback from the workshop was that attendees found the session highly informative and highlighted actions requiring further attention in the Canterbury region. Therefore, a follow-up regional workshop to progress actions identified in the session, was held on Tuesday April 30th from 1.30-3.30pm at the Civic Offices in Christchurch, and online.

4. Considerations Ngā Whai Whakaaro

- 4.1 A high- level overview of the outcomes of the meeting, and ongoing actions, is attached.

Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A 	Information and actions arising from the Canterbury Regional Disaster Waste Management Workshop 30 April 2024	24/1205994	11

In addition to the attached documents, the following background information is available:

Document Name – Location / File Link
Not applicable

Signatories Ngā Kaiwaitohu

Author	Eilidh Hilson - Regional Waste Projects Facilitator
Approved By	Alec McNeil - Manager Resource Recovery Lynette Ellis - Head of Transport & Waste Management

Key Information and Actions arising from the Canterbury Region Disaster Waste Management Workshop

Tuesday April 30th 1.30-3.30pm

CCC Function Room, Civic Offices, 53 Hereford Street and Microsoft Teams

Attendees:

Jack Grinsted, Senior Science Advisor - Hazardous Substances & Waste, ECan
Richard Ball, Group Recovery Manager, CDEM ECan
Gavin Treadgold, Emergency Management Advisor - Planning, ECan
Keygan Huckleberry, Planning Coordinator CCC CDEM
Dr Alec McNeil Manager, Resource Recovery CCC
Tania Lees, Contract Supervisor - Recycling, CCC
Grant Gillard, Landfill Aftercare Officer, CCC
Melanie Hayman, Contract Supervisor - Transfer Stations, CCC
Eilidh Hilson, Regional Waste Projects Facilitator, CCC
David McArdle, Contract Supervisor - Organics, CCC
Maria Lamb, Waste Minimisation Advisor, CCC
Sally Cracknell, Team Leader - Waste Minimisation, Hurunui District Council
Justin Bloomfield, Operations and Services Officer Ashburton District Council
Jim Henderson, Emergency Management Officer, Ashburton District Council

Online

Hannah Mirabueno, Senior Scientist, Contaminated Land and Waste, ECan
Dr Micheal Macbeda, Waste Management Officer, Waimate District Council

Apologies

Pari Hunt, Te Aporei / Principal Advisor, Whakawhānau ā Tiriti/ Treaty Relationships Team, Christchurch City Council
Katrina Galbraith, Contract Supervisor, Kerbside Collections, CCC
James Thompson, CDEM Regional Manager/Group Controller, ECan
Colin Berkett, Regional Manager - Canterbury Municipal, WM New Zealand
Rob Wilson, Operations Manager, EcoCentral
Kitty Waghorn, Solid Waste Asset Manager, Waimakariri District Council
Andrew Boyd, Resource Recovery & Waste Manager, Selwyn District Council
Bruce Apperley, Three Waters and Waste Engineer, Kaikoura District Council
Grant Hamel, Waste Operations Manager, Timaru District Council
Angie Taylor, Solid Waste Officer, MacKenzie District Council
Jacob Stapleton, Upper South Island Regional Manager, EnviroNZ
Carl Huyser, EnviroNZ (*notes sent through after*)
Victoria Henry, Technologist, Living Earth

Staff discussion

1) Decision Making Authority

Whose organisation or entity is responsible for what specific actions (to be identified), to manage the waste?

What is our current understanding of who is responsible for what?

CDEM are legislated to select and obtain land for waste storage. What is the implication of this?

Key information

- It is CDEMs responsibility to collect intelligence to build the initial understanding of disaster to (1) stabilise the situation and prioritise public welfare actions (2) Work into recovery. They can obtain land for disaster waste storage, but it is not their ongoing responsibility.
- CDEM are only able to fund activities reducing immediate threats to civilian safety.
- Sanitation takes priority over waste minimisation/sorting activity.
- ECan hold a new draft database being worked on, with waste collection and transport company contact details, shared with the CCC Resource Recovery Team.
- Resource Recovery (RR) Teams have more in - depth knowledge regarding identification of waste disposal facilities. Need to ensure that RR subject matter experts have a voice in decision making by authorities tasked with this and are involved in waste planning pre disaster.
- While different districts have varying needs, observations from prior events, are that residents are consistently reassured by kerbside collection to return to BAU as soon as possible.
- Communications to place solid waste kerbside, need to be balanced with availability of plant, fuel, logistics to remove it before hazards increase (contaminated, attracts animals, obstruction to footpath, spread).
- Residents need clear direction - many are hasty to remove waste as soon as possible, and don't await insurance paperwork etc. For those with insurance - guidance is usually to dump and keep receipts if there is a charge.
- Councils could consider weighbridge fee waivers or provision of free waste disposal, rather than risk widespread illegal dumping activity.

- Need a waste licence to use the transfer stations and send to landfills - who will check the waste licence of any new businesses?
- May need to pre plan zones of appropriate disposal areas rather than identifying specific sites. Need to distinguish emergency storage sites and long-term storage. Steps are then required to ensure the site is managed adequately, after the waste is deposited.
- We need to know what happens once the state of emergency is over, if the storage reverts to BAU. When can ECan and territorial authorities apply regulatory powers in the management or clean-up of temporary storage sites?

2) Funding and Payment Arrangements

Procurement processes in major events - what is our understanding of how this works, with the systems we currently use?

What further information do staff and contractors need to understand the processes?

How can we ensure non-duplication between organisations (as has previously occurred in other events)

Key Information

<https://www.civildefence.govt.nz/resources/coordinated-incident-management-system-cims-third-edition>

- Central Government has guidelines for funding. May cover small TAs or disasters, but for larger ones, negotiation is required.
- Funding at the start of response cannot be relied on - need to proceed with works, cost is on the TA unless funding is received.
- A suggestion to keep BAU separate from disaster waste management discussions - have parties involved in one room to discuss contractual agreement details, prior to a disaster. E.g. paying per tonne or per day or in between (retainer?).
- Market dependent. ECan has a price list for agreed works with contractors. Price list gives an indication and then becomes a negotiation.
- Panel agreements are good for Councils but don't necessarily work for companies on the panel. Need to consider this.
- Get contact details, GST number, depots, asset register, etc via Google Form to gauge interest and if so, request details.
- Procurement process for a disaster waste panel, which would include an agreement/term of engagement, pricing schedule, etc.
- ECan have a Rivers, Parks, and Biosecurity pane. ECan has ADC's forestry contractors.
- Disaster waste contractor panel agreement – beware of competing with existing contracts. Competing with private and commercial – a panel agreement would be that the contractors have priority?
- Procurement reimbursement avenues may change - welfare or recovery costs.
- “Air Curtain Burners” are units using air knives as an air curtain at the top of a container used for burning untreated timber, stumps in some places: <https://airburners.com/technology/principle/>. There is a document on this on the ECan website; PM10 Air Dispersion Modelling for an Air Curtain Burner, 484 Johns Road, Christchurch
- There would need to be conversation with ECan, regarding burning and options., or Air Curtain Incinerators.
- Disposal of dead or diseased farm stock is a permitted activity however there are with size restrictions for offal.
- Richard - different people charging for the same contract, in terms of admin balancing efficiencies.
- ECan have a different calculation but need to recover this, must be over 5 million.
- There is currently an inquiry going into the North Island events response.
- Many community and volunteer groups working on disaster waste clean ups and not getting any funding
- Rural and isolated communities may be isolated, and resort to bury or burn.

3) Relationship Building

What specific relationships need to be established prior to an event, and how?

Mana whenua relationship building – what is the status of this across the region?

How do we share this information? Who communicates across teams and contractors, and manages access and updates of contact lists, asset registers and planning information?

Key information

- Runanga are inundated with work requests. Political situations may only increase workload. Pari Hunt, CCC Te Aporei / Principal Advisor Whakawhānaunga ā Tiriti/ Treaty Relationships Team put his apologies in for today but noted he is very keen to be involved and wants to collaborate.
- Burwood is still set aside for disaster waste scenarios.
- Civil Defense Act 2002 dictated that CDEM are responsible to manage waste, but the TA resource recovery teams are the subject matter experts, and responsible in the long run.
- Keygan has compiled a report on lessons learned from the port hills fire and is being provided to ELT.
- No databases –currently – most similar thing is welfare Gavin trying to build a good database.
- This logistical administration needs to be sorted, but the logistics team is only enacted in an emergency. Contracts can cease when in emergency as EDEM systems kick in.

4) Public Communications

Process for communicating education for the public - how to respond, including information on waste triaging.

What pre - event information is available and where?

Sharing of current information around Asbestos and hazardous waste management messaging. What are the gaps?

Key information

- The three Rs are: Readiness, Response and Recovery
- CDEM utilise a variety of mapping tools to rapidly assess damage to rural roads and determine what is needed to collect waste
- CDEM currently delivers public education through visits, talks, and displays at events via community resilience co - ordinator.
- They don't currently discuss waste management – they are trying to cover many different topics already.
- The websites are:
[Public education resources » National Emergency Management Agency \(civildefence.govt.nz\)](#)
[Canterbury CDEM Group | Canterbury CDEM \(cdemcanterbury.govt.nz\)](#)
- Public Information Management Systems (PIM) function is used in an emergency. They do already have some key messages around waste. Katie McRae key contact at CCC.
- Councils that have an app, can target it to a specific area. Waste collection contract supervisors are critical in this. However, we want consistency in the source of messaging.
- Councils usually don't have any information on tenants - only the owners. Hard to verify genuine tenants if required (for access to remove waste).
- Water (floods, tsunamis, liquefaction) increases volumes of hazardous waste (contamination, disease), kerbside storage can be problematic
- Peak of waste was 2014 – Insurance companies – waste wasn't touched until demolished
- Rapid building assessment process identifies asbestos. For disposal purposes, suggestion to include other hazardous substances e.g. lead paint, arsenic on treated timber.

Resolved Action	Status
Clarify who is responsible for what and who pays, in the first 2 days	This is a CDEM activity. CDEM and Resource Recovery teams to work together.
Check the status of the proposed CDEM Bill	The proposed bill has been cancelled. There are indications that a new bill will be proposed in the next year.
Note in the database who is the point of contact for communications	CDEM have clarified: Comms in an emergency go through the PIMs system, via CDEM.
Standard communication needed between all service providers.	Established that CDEM and RR teams need to work together, with contractors.
Provide relevant information from the North Island Inquiry Process	Information and link: dia.govt.nz/Government-Inquiry-into-the-Response-to-the-North-Island-Severe-Weather-Events
Utilise existing relationships and CDEM advice for waste experts (TAs) to set up contracts.	CCC procurement have confirmed they are able to assist in the establishment of supplier panel processes, when needed. Assistance with this may also be able to be provided to other TAs in the region when required in an emergency.

Overview of Ongoing Actions

July 2024

Storage and Disposal

Identify potential areas for both for emergency and long-term disposal of solid waste, across the region.

A follow-up meeting with participants is to be booked in for the second half of 2024. Date TBC.

ECan Contaminated Land and Hazardous Waste Team, are seeking options for further analysis, after initial high level scoping work of unsuitable areas – July 2024.

If any scoping work is to be undertaken, Tuia Team (ECan) and Pari Hunt (CCC) to be informed.

Each individual TA to flag with Rūnanga if scoping work is taking place.

Human Resources and Equipment Register

TAs and ECan staff have created an active register – June 2024

Regional Disaster Waste Management Plan

Set standards and clear expectations. Identify critical infrastructure that waste management is dependent on. Utilise the above information.

A follow-up meeting with participants is to be booked in for the second half of 2024. Date TBC.

Staff from the regional and city council continue to communicate to progress further actions.

5. Canterbury Waste Joint Committee Staff Group Update

Reference Te Tohutoro: 24/1202455

Responsible Officer(s) Te Pou Matua: Eilidh Hilson, Regional Waste Projects Facilitator

Accountable ELT Member Pouwhakarae: Brent Smith, Acting General Manager City Infrastructure

1. Purpose and Origin of the Report Te Pūtake Pūrongo

- 1.1 The purpose of this report is to provide an update to the elected members of the Canterbury Waste Joint Committee ('CWJC'), on collaborative work between the members of the staff group.
- 1.2 The report is staff-generated.

2. Officer Recommendations Ngā Tūtohu

That the Canterbury Waste Joint Committee:

1. [Receives the information in the Canterbury Waste Joint Committee Staff Group Update Report.](#)

3. Background/Context Te Horopaki

- 3.1 The CWJC staff group consists of representatives from the ten member councils waste advisory teams. Staff work together proactively and on reactive actions required in response to government or industry-initiated changes.
- 3.2 A 1FTE Regional Waste Projects Facilitator started in February 2022, for a fixed term period of two years. This was to carry out and initiate co-ordination work that is outside of the scope of the members of the staff group.

4. Considerations Ngā Whai Whakaaro

4.1 Waste Levy and Data Regulation Updates

- 4.1.1 An amendment was made to the Waste Minimisation Act in May 2024. This has allowed for wider access to waste levy funds retained by Ministry for the Environment. These were previously reserved as a contestable fund for waste minimisation related projects only.
- 4.1.2 This amendment does not affect the TA allocated portion of the funding (50%). The levy will also undergo further increases, to \$75 a tonne by 1 July 2027 (currently \$60 a tonne as of 1 July 2024). Further information can be found at [Ministry for the Environment - Waste Levy](#).
- 4.1.3 New waste data regulations also came into effect on 1 July 2024. Under these regulations, TAs have new mandatory requirements to report on waste levy spending and waste sources. There are seven broad source categories, covering the main activities that generate waste in New Zealand;
 1. Construction and demolition
 2. Mixed industrial, commercial, and institutional
 3. Heavy industrial
 4. Residential drop-off
 5. Residential kerbside collections
 6. Unusual activity
 7. Transfer stations – mixed activities
- 4.1.4 To collect more in-depth data, without further national legislation, a bylaw that protects commercial sensitivities would be required. This would be used to inform investment in regional waste collection and processing infrastructure.

4.1.5 Councils across the region have been highly proactive in exchanging advice, ideas and conducting transfer station site visits. This has included participation from regional council representation, to understand the logistics and challenges to TAs, in standardising regional waste data collection methodologies.

4.2 **Waste Management Institute New Zealand (WasteMINZ) Territorial Authority Officers (TAO) Forum**

4.2.1 The TAO Forum met in person on 27 May 2024, at the WasteMINZ conference in Hamilton. The Steering Committee, of which the Regional Waste Project Facilitator is a member of, met on 12 June 2024.

4.2.2 The Steering Committee oversee a collaborative fund for projects of benefit to TAs. Last FY year, the fund was used to procure the development of an in - depth guide to the implementation of kerbside organics collection services. Staff from various TAs in Canterbury provided technical advice on this. The final report is pending release, post review by the steering committee and technical group, as of mid-July 2024.

4.2.3 The TA forum is proactive in advocating for TA waste activity priorities, as stated in the Local Government Waste Manifesto 2023 (**Attachment A**). This includes co- ordination of submissions where relevant, the provision of webinars, networking, and training opportunities, and working to promote the benefits of TA delivered projects, using waste levy funding.

4.3 **Ministry for the Environment (MfE) Organics Project**

4.3.1 Four Canterbury TAs (Waimate, Mackenzie, Timaru, and Christchurch) participated in a national research project looking into behaviours behind household use of different kerbside organics collection systems.

4.3.2 From 13 March to 25 May 2024, 1000 organics bins across these districts were audited. In addition, 3000 surveys were distributed to households that had their organics bins audited and other households in the vicinity. Data collation and analysis has begun, as of the start of July 2024. Focus groups are being held, to further explore resident views of green organics bin services, and use of benchtop food scrap caddies where available. MfE will then make recommendations to improve services. The final reporting date is mid-September 2024. Further information is attached in **Attachment B** and **Attachment C**.

4.4 **Local Government Waste Minimisation Officers Huitima**

4.4.1 This quarterly meeting is co-ordinated by councils around the country. There are standing agenda slots from MfE and WasteMINZ to provide information on activities in the previous quarter and looking ahead.

4.4.2 At the most recent Huitima on 19 June, additional presentations were received on illegal dumping prevention and evaluation of long-term effectiveness of educational programmes.

4.4.3 An additional quarterly meeting has recently been established, focused on local government construction and demolition waste minimisation updates.

4.5 **WasteMINZ Batteries Working Group**

4.5.1 Batteries, particularly Lithium-Ion batteries, continue to pose a serious fire and environmental risk within collection and processing assets. The CWJC regional facilitator has taken over as chair of the working group (as of June 2024). The working group has representation from industry, Fire and Emergency NZ (FENZ) and local government resource recovery staff. The group continue to work on actions to mitigate this risk, given there is no one authoritative body or responsible organisation to manage this, in New Zealand.

4.5.2 At the WasteMINZ conference from 27 to 30 May 2024, the Minister for the Environment noted the collective concern regarding this risk. Action requested was that MfE consider fast tracking a product stewardship scheme. MfE requested further detail on the risk, from the working group.

- 4.5.3 The Canterbury TAs continue to promote safe battery disposal across the region, and provided feedback on the Auckland City Council campaign, which attracted national media attention. A supplier to several councils in Canterbury, has now made fire suppressant receptacles available to their customers.

4.6 Disaster Waste

- 4.6.1 Information on actions pertaining to regional planning for waste management in the event of a disaster, is included under a separate agenda item.

4.7 Farm Waste

- 4.7.1 Representatives from ECan and Christchurch City Council helped to form the objectives and priorities after the first meeting of the Farm Waste working group, in February 2024.
- 4.7.2 ECan recently highlighted an uptake of 50% in the collection and recycling of silage/bale plastic wrap in Canterbury since 2021, via Plasback and Agrecovery. ECan continue to promote these programmes. ecan.govt.nz/get-involved/news-and-events/2024/recycling-farm-plastics-a-win-win/

4.8 Illegal Dumping Prevention Working Group

- 4.8.1 Christchurch City Council resource recovery staff have joined Hamilton City Council and the Taranaki area councils, to form a leadership forum to steer best practice informed actions, at a national level. The group will discuss; service levels, solutions to challenges for residents to use appropriate disposal centres, compliance actions, campaigns, and data collection. The regional and district councils will be kept informed of these activities.

4.9 Reuse Systems

- 4.9.1 Reduction of waste generated by events is an increasing focus of the staff group. Staff from the TAs and regional council have been working with events teams and contractors to improve waste sorting practices, scope reusable packaging systems, investigate the future of compostable packaging and update signage.
- 4.9.2 Staff have been seeking advice from local waste reduction consultants, the Aotearoa Wash Trailers network, Envirohubs NZ, Again Again, Reuse Aotearoa, and the Wellington rewash systems technical advisory and stakeholder groups, which includes Wellington City Council.
- 4.9.3 In addition, interest has been shown from organisations scoping the possibility of reusable beverage collection systems. This has potential to address issues with ongoing misuse and contamination of public place collections. Staff continue to investigate these types of opportunities.

4.10 Climate Change Resilience

- 4.10.1 The Ministry for the Environment released a climate change strategy on 10 July 2024. This clarifies the approach to meeting New Zealand's climate goals. The Government's climate strategy | Ministry for the Environment.
- 4.10.2 Christchurch City Council recently approved the draft Regional Climate Action Plan (**Attachment D**).
- 4.10.3 Members of the CWJC staff group continue to seek technical advice on development of regional strategies to reduce waste, while also reducing emissions.
- 4.10.4 Further information can be found at ecan.govt.nz/your-region/plans-strategies-and-bylaws/what-we-know/climate-change/regional-and-national-policy/



Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A  	Local Government Waste Manifesto 2023	24/1226638	19
B  	Internal and External Memo - MfE food scraps collection research project 30 April 2024 Report	24/1202460	32
C  	MfE food scraps collection research process - Ahikā Consultants - March to May 2024	24/1204318	34
D  	Draft Canterbury Climate Partnership Plan June 2024	24/1224333	37

In addition to the attached documents, the following background information is available:

Document Name – Location / File Link
Not applicable

Signatories Ngā Kaiwaitohu

Authors	Eilidh Hilson - Regional Waste Projects Facilitator Alec McNeil - Manager Resource Recovery
Approved By	Alec McNeil - Manager Resource Recovery Lynette Ellis - Head of Transport & Waste Management



LOCAL GOVERNMENT WASTE MANAGEMENT MANIFESTO

DEVELOPED BY THE TERRITORIAL
AUTHORITY FORUM, A SECTOR
GROUP OF WASTEMINZ

SUMMARY POINTS

REVIEW THE NEW ZEALAND **WASTE STRATEGY**
TO SET A CLEAR PROGRAMME FOR ACTION

EXPAND THE **WASTE DISPOSAL LEVY** AND PROGRESSIVELY RAISE
THE LEVY RATE TO REDUCE TOTAL WASTE TO LANDFILL BY UP TO
3.5 MILLION TONNES PER ANNUM

OFFICIALLY ADOPT THE NATIONAL **WASTE DATA** FRAMEWORK
DEVELOPED BY WASTEMINZ AND OVERSEE ITS IMPLEMENTATION
TO ENABLE BETTER PLANNING AND MONITORING

INTRODUCE A **CONTAINER DEPOSIT SCHEME** TO LIFT RECYCLING
RATES FROM 45-58% TO BETWEEN 79% AND 82%

DECLARE **TYRES, E-WASTE, AGRICULTURAL CHEMICALS
AND PLASTICS** AS PRIORITY PRODUCTS, TO ADDRESS
PROBLEM WASTE STREAMS

About the TA Forum

The Territorial Authority (TA) Forum is an officer led Sector Group of WasteMINZ. It is made up of 64 city and district councils from around New Zealand. The TA Forum was established to create consistency and efficiency amongst territorial authorities through sharing knowledge and best practice.

Acknowledgements

Our thanks to Eunomia Research & Consulting for their assistance in developing this manifesto.

JANUARY 2018



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Introduction

Waste is a significant issue for local government to deal with. However, a lack of supporting Government policy and action has constrained councils' ability to address waste issues effectively. This manifesto sets out the waste management actions which the TA Forum considers that the Government should prioritise. These actions will enable real reductions in waste to landfill and reduce the costs borne by councils and their communities.

Why recycling and waste reduction matters

In New Zealand, we generally manage waste responsibly to avoid the worst waste management outcomes. However, waste also represents a huge opportunity for New Zealand, which we have barely begun to take advantage of.

Waste is the result of an unsustainable, linear use of materials. Taking action on waste can drive transformation back up the value chain and bring about significant positive changes throughout the economy, and ultimately move us towards a more circular model. Well considered waste policy has the potential to bring benefits across a wide spectrum of activity from reducing greenhouse gas emissions by avoiding waste in the first place, through to job creation and cleaner waterways.

Reducing waste and making full use of the value of materials will lead to the following positive outcomes for New Zealand:

Reduced greenhouse gas emissions through reduced virgin resource use, as well as less emissions from landfill.

More efficient industries and services that use less materials in the first place – improving our competitiveness.

Improved soil quality from use of organic waste, improving our farm productivity and improving water quality as a result of better soil moisture retention and the need to use less fertilisers.

A reduced reliance on importing materials and on fluctuating commodity markets.

An increase in economic activity and jobs as a result of materials being diverted from unproductive landfill to productive local industries.

The priorities that are set out in the following pages are only some of the areas that the Government can take action on to reduce waste, but they are ones that will have the most impact in setting us on the right path, towards a circular economy.

The suggested priorities are all well proven and well researched, and are possible to deliver with the provisions already available in legislation. All that is required is decisive action.

The need for a strategic approach

What is it?

There has been a lack of clear strategic direction to shape and guide action and investment in the waste sector. The current New Zealand Waste Strategy 2010 (NZWS) presents two guiding principles but sets no goals, targets, timetables, actions, or responsibilities.

Given the range of possible actions that the Government could take (some of which are set out in this document as priorities), it makes sense to set these within a clear strategic framework. Revision of the New Zealand Waste Strategy is therefore considered timely.

What would it achieve?

Revising the New Zealand Waste Strategy to set a more comprehensive programme of action would:

Provide clarity to the sector on the Government's priorities and timeframes.

Facilitate TAs in developing their Waste Management and Minimisation Plans (WMMPs), which must have regard to the strategy, and help align actions regionally and nationally.

Provide a clearer strategic direction for investment of waste levy funds.

Encourage more joint working and investment in regional planning and infrastructure.

Create greater certainty for the private sector to facilitate investment in key infrastructure and services.

How should it work?

A revised waste strategy should have the following features to give clear direction:

A clear set of goals and objectives.

Measurable and time-bound targets.

Identify the specific policies and actions that will deliver the targets, goals and objectives.

Identify the roles and responsibilities for key parties (TAs, regional authorities, industry, community sector, product stewardship and industry organisations etc.), including any regulatory provision necessary for full participation.

Identify and establish funding mechanisms (including waste levy funding) that will enable delivery of the targets, goals, and objectives by the key parties.

Establish mechanisms for monitoring and reporting on outcomes.

Key actions for Central Government

The content and direction of the strategy is the prerogative of the Government to determine in partnership with the sector. However, from a council perspective, the TA Forum considers that the following elements are logical parts of any strategy moving forward:

Priority 1: Changes to the Waste Disposal Levy

Priority 2: Better Waste Data

Priority 3: Container Deposit Scheme

Priority 4: Mandatory product stewardship for key products

Each of these is expanded on in the following sections.

PRIORITY 1

Changes to the Waste Disposal Levy

What is it?

New Zealand has a levy on every tonne of waste that is disposed of at Class 1 landfills. The levy has been applied at a rate of \$10 a tonne since it was first introduced in 2009.

Despite having a levy in place, the amount of waste sent to landfill in New Zealand has grown by 35% since 2009¹. It is clear that, in its current form, the waste levy has not been effective in promoting the reduction of waste to landfill and in achieving the aim of the Waste Minimisation Act, which is to "...encourage waste minimisation and a decrease in waste to disposal..."².

The main reason the levy has not been effective is that the rate is very low – one of the lowest of any country with a landfill levy. Another challenge is that the levy is currently only charged on the waste going to Class 1 landfills – which is only about 30% of the waste that is disposed to land. The other 70% goes to Class 2-4 landfills (which are supposed to accept less harmful waste, and which have lower environmental standards), or is disposed of on farms.

International evidence is clear that extending the levy to cover all types of disposal, and raising the rate of the levy (particularly on the type of waste that should go to Class 1 landfills), can generate substantial reduction in waste to landfill. The levy is the single most powerful tool available to Government to reduce waste and improve resource efficiency and recovery.

What would it achieve?

Recent work commissioned by a consortium of councils and, waste and recycling companies showed that there would likely be substantial benefits to New Zealand from a well-designed levy regime.³ The study suggests extending the levy to all classes of fill and raising the rate for 'active waste' to \$140 a tonne would, by 2025:

Reduce total waste to landfill by 3.5 million tonnes with over half of this reduction coming from Class 1 landfills.

Raise an additional \$170 million per annum in revenue that could be applied to waste minimisation projects and strategic regional infrastructure.

Create up to 9,000 additional jobs.

Result in net benefit to the New Zealand economy of up to \$500 million per annum.

The study results are consistent with experience from the UK, Europe and Australia where similar levy structures and rates have been put in place.

There is widespread agreement in the sector on the need to broaden the levy to encompass different types of landfill, and while there is general agreement that the levy should go up, there is less consensus on what the rate should be, and how quickly it should go up, as well as concern in some regions on the potential impacts locally.

¹ Based on data from Ministry for the Environment (2017) *Review of the Effectiveness of the Waste Disposal Levy 2017*. Wellington: Ministry for the Environment

² Waste Minimisation Act Section 3

³ Eunomia Research & Consulting (2017) *The New Zealand Waste Disposal Levy, Potential Impacts of Adjustments to the Current Levy Rate and Structure*

How should it work?

There will need to be further work to determine the precise structure that will deliver the best outcomes for New Zealand, including mitigating any potential negative outcomes. As articulated by the study mentioned on the previous page, there will need to be a package of elements that together provide a sound basis for action. These elements include:

Extending the levy to all fill types, so waste can't 'escape' the levy and to improve data.

Differential rates for key waste types (such as 'active' and 'inert' waste), to enable appropriate management of waste types.

A substantial increase in the 'active' rate, to drive waste from disposal to recovery.

Escalating to the target rates over time, to give industry time to respond and invest.

Comprehensive monitoring and enforcement, to avoid illegal disposal.

Targeted spending of levy income, to provide diversion opportunities through locally appropriate infrastructure and support the intent of the Act.

Key actions for Central Government

There are adequate provisions in the WMA 2008 to make all the necessary changes to the levy that would deliver the benefits noted previously. Regulation under the Act will, however, be required to bring some of the actions into force.

To put in place an optimal structure for the Waste Disposal Levy the following key steps will likely be required:

- 1 Undertake further work to understand the potential costs and benefits in more detail. In particular, where these costs and benefits will fall. This includes the costs and benefits from levy charges as well as allocation of funds. Key areas to understand further include:
 - a Impacts on industry sectors
 - b Impacts on local government
 - c Impacts in different parts of the country
 - d Climate change and other environmental impacts.
- 2 Develop draft proposals for a revised levy regime taking account of the cost-benefit profile.
- 3 Undertake consultation on draft proposals.
- 4 Finalise levy design and implement new regime.

PRIORITY 2

Better Waste Data

What is it?

New Zealand lacks comprehensive, reliable waste data⁴. We have good data on the quantity of material that goes to Class 1 (levied) disposal sites, and most councils hold reasonable data on the waste that they manage through their services and facilities. But there is very poor data on the total amount of waste generated, the amount of material that goes to Class 2-4 disposal sites and farm dumps (together about 70% of all material disposed to land), material that is collected or managed by private operators, and material that is recycled and recovered. This means that our overall understanding of waste flows is severely limited.

New Zealand already has a National Waste Data Framework (WDF)⁵, which provides a series of protocols for gathering consistent data. This is beginning to be implemented by a range of councils around the country. However, participation is voluntary, the WDF currently only covers waste going to levied disposal sites, and there is no mechanism to compile data on a regional or national basis.

What would it achieve?

Better waste data will have a significant positive effect across all aspects of the sector. It will allow councils, the private and community sectors, and Government to benchmark their performance, identify areas where performance could be improved, plan with greater confidence, and to monitor and measure the effectiveness of actions.

⁴ Ministry for the Environment (2017) *Review of the Effectiveness of the Waste Disposal Levy 2017*. Wellington: Ministry for the Environment

⁵ The WDF was developed with support from the Waste Minimisation Fund and TAs, and led by WasteMINZ

How should it work?

A national system for gathering and sharing waste data should be established. The system should have the following features:

Utilise the existing Waste Data Framework developed by WasteMINZ to provide the foundation for gathering data and expand it (as planned, when it was initially developed) to cover non-levied sites and recovered materials.

Local authorities continue to have primary responsibility for gathering waste data in their district.

Regional bodies are established to administer waste operator licensing schemes, gather data from these schemes and compile data on a regional level.

Central government should compile regional data to develop a national picture and make data available for benchmarking and policy purposes.

Key actions for Central Government

To establish a national waste data system the Government should:

- 1 Require (under section 37 of the WMA) the Waste Data Framework to be used by TAs for compiling and reporting data.
- 2 Develop and implement regulations under Section 86 of the WMA to provide a mechanism for requiring reporting of recovered material data.
- 3 Establish a platform for key parties to enter data into, compile data, and make aggregated data available.
- 4 Work with councils, industry, and regional government/agencies to facilitate the development of a national waste data system that will meet the needs of the sector at large.

PRIORITY 3

Container Deposit Scheme

What is it?

A container deposit scheme (CDS)⁶ is where consumers pay a deposit when they purchase a drink from a store and then receive it back when they return the container to an official collection point.

The amount of the deposit is usually quite small (10 cents for example), but it is enough to provide an incentive for people to return the containers. If a consumer chooses not to return the empty container, they lose the deposit.

The concept is similar to the old bottle deposit schemes that used to operate in New Zealand except that it would apply to a range of containers, not just glass bottles.

What would it achieve?

Places with container deposit schemes achieve very high recycling rates, in the order of 80–90 per cent of all drink containers. The schemes also help to reduce the impact of litter on the environment, particularly the marine environment.

A recent independent cost-benefit analysis commissioned by Auckland Council found the following benefits from introducing a CDS in New Zealand:⁷

Overall benefits would be three to six times greater than costs.

Recycling rates would be improved from 45–58% to between 79% and 82%.

Councils could expect to save in the order of \$12.5 million–\$20.9 million per annum in kerbside collection costs.

Councils could avoid further costs in the order \$4.2 million–\$8.1 million per annum, through reduced landfill disposal and litter cleanup costs.

Other potential benefits would accrue to the environment, job creation, and increased public engagement.

How should it work?

The precise structure for the CDS will need to be determined through consultation. However, the fundamental features of the scheme should include:

Coverage of a wide range of drink containers from small cans through to tetra-paks and large 3-litre containers.

Producers add a refundable charge (for example 10 cents) to each container which is passed on to retailers.

Consumers pay the charge when they purchase the product.

Consumers take back the empty container to a drop off point and receive back the full amount of the deposit.

An example of how a scheme could work is shown in the diagram on page 10.

For more detail on how a CDS scheme could work, refer to the reports by Envision⁸ and/or Auckland Council⁹.

⁶ CDS is often referred to by other names such as Deposit Refund Systems (DRS) or Container Deposit Legislation (CDL)

⁷ Preston Davies (2017) *Cost-benefit analysis of a Container Deposit Scheme*. Report for the Auckland Council, August 2017

⁸ Envision (2015) *The InCENTive to Recycle: The case for a container deposit system in New Zealand*

⁹ Preston Davies (2017) *Cost-benefit analysis of a Container Deposit Scheme*. Report for the Auckland Council, August 2017



Indicative Container Deposit System Model

Key actions for Central Government

The legislative basis for introducing a CDS is provided in the product stewardship provisions of the Waste Minimisation Act 2008 (WMA). Key actions would include:

- 1 Undertake appropriate consultation.
- 2 Declare beverage containers a priority product.
- 3 Decide the key features of the scheme such as the level of the deposit, the containers it is applied to, and the responsibilities of key parties.
- 4 Enact required regulation to ensure participation and lawful compliance of participants.
- 5 Set up the necessary administrative structures and infrastructure.

PRIORITY 4

Mandatory Product Stewardship

What is it?

Product Stewardship schemes are well established around the world and are particularly effective tools for managing problematic waste streams. They place responsibility on the producers and sellers for managing products at the end of their life.

There are two types of schemes: mandatory product stewardship, and voluntary (industry or company led) schemes. New Zealand has provision for both types of product stewardship schemes in the WMA, but to date, the Government has only accredited voluntary schemes. While voluntary schemes are appropriate for some products, other products may require mandatory schemes to be effective.

Mandatory schemes are necessary where either the industry does not want to act, or where only certain companies within the industry are willing to act, and other companies can get the benefits of a scheme without having to pay the costs (referred to as 'free riders').

What would it achieve?

It is proposed that mandatory schemes be set up for the following key waste streams:

Tyres

E-waste¹⁰

Agricultural chemicals and plastics

Each of these waste streams is extremely problematic in New Zealand. They have been identified by stakeholders as priorities¹¹, and significant research has been undertaken into

these issues and on the viability of mandatory schemes. In addition, the tyre industry has been supportive of mandatory product stewardship and have actively sought its introduction.

Introducing mandatory product stewardship schemes for these products would dramatically improve the management of these waste streams, avoid negative environmental impacts associated with their improper disposal, and shift costs to the producers and consumers, thus reducing costs to councils and communities.

How should it work?

Each of the schemes would need to be established independently. Key features are noted below:

Tyres. The scheme should broadly follow the Tyrewise model which has been developed and consulted on by industry.¹² The preferred scheme should apply to all pneumatic and solid fill tyres, including off the road (OTR) and aircraft tyres; and a fee placed on all tyres at the point of import covering collection, tracking and processing of end-of-life tyres.

E-Waste. The scheme should draw on the work done to date by the MfE and stakeholders. Key features of a scheme should include: advance recycling fee applied to each electrical or electronic item at point of purchase, industry management responsible for establishing collection networks (which could include retail outlets), consumers drop off end-of-life electronics at no charge, the fee covers collection, responsible recovery or disposal, and administration.

¹⁰ The definition of e-waste will be important. For the purposes of this document e-waste is assumed to refer to any item with a battery or an electrical plug.

¹¹ Ministry for the Environment (2015) *Priority waste streams for product stewardship intervention: Summary of submissions*.

¹² Tyrewise Working Group (2014) *Tyrewise Scoping Report 4: What might a future programme look like?* Report for Ministry for the Environment

Agricultural chemicals and plastics. The scheme should draw on the work done by Environment Canterbury ¹³ (and supported by the Waste Minimisation Fund). While this work did not identify a mandatory product stewardship scheme (as this was not within its scope), it did examine the feasibility of various approaches. Key features should include comprehensive coverage, a single point of contact and cost-effective operation.

Key actions for Central Government

The legislative basis for introducing schemes for these waste streams is provided in the product stewardship provisions of the Waste Minimisation Act 2008 (WMA). Prior to this, key actions would include:

- 1 Review the work already undertaken for each product type, take account of new information and address any information gaps.
- 2 Undertake appropriate consultation as required.
- 3 Declare each of the above items as priority products under section 9 of the WMA.
- 4 Develop schemes for each of the priority products.
- 5 Accredited the schemes under section 15 of the WMA.

¹³ Environment Canterbury (2017) *New Zealand Rural Waste Minimisation Project Milestone 5 Phase iii: Implementation of preferred options & communications strategy*. Prepared by True North Consulting / Cherry Red Consulting. 12 May 2017

Key Reference Documents

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Attachment A

Container Deposits

Envision (2015) *The InCENTive to Recycle: The case for a container deposit system in New Zealand*

Preston Davies (2017) *Cost-benefit analysis of a Container Deposit Scheme*. Report for the Auckland Council, August 2017

Waste Disposal Levy

Eunomia Research & Consulting (2017) *The New Zealand Waste Disposal Levy, Potential Impacts of Adjustments to the Current Levy Rate and Structure*

Waste Data

Waste Management Institute New Zealand (2015) *New Zealand Waste Data Framework Volume One: Definitions and Protocols for Waste to Disposal Facilities Volume Two: Definitions and Protocols for Information about Waste Services and Facilities*. Prepared by Eunomia Research & Consulting Ltd and Waste Not Consulting Ltd, August 2015.

Waste Planning

Ministry for the Environment (2010) *The New Zealand Waste Strategy*

Product Stewardship

SLR, *E-waste Product Stewardship Framework for New Zealand*, June 2015

e-Day Trust (2017) *eWaste Manifesto*

Environment Canterbury (2017) *New Zealand Rural Waste Minimisation Project Milestone 5 Phase iii: Implementation of preferred options & communications strategy*. Prepared by True North Consulting / Cherry Red Consulting, 12 May 2017

KPMG (2015) *Waste Tyres Economic Research Report 3: Intervention options to promote investment in onshore waste tyre recycling*. Report for Ministry for the Environment

Ministry for the Environment (2015) *Priority waste streams for product stewardship intervention: Summary of submissions*

Memos



Memo

Date: Thursday 4 April 2024
From: David McArdle – Contract Supervisor Organics
Eilidh Hilson – Regional Waste Projects Facilitator
To: The Mayor and Councillors, Community Boards
Cc:
Reference: 24/513064

Ministry for the Environment food scraps collection research project

1. Purpose of this Memo Te take o tēnei Pānui

- 1.1 To inform the Mayor, Councillors and Community Boards about the Council's involvement, along with four other local territorial authorities, with an upcoming Ministry for the Environment (MfE) national research project on food scraps collections. The research project includes a mixed organics (food organics and garden organics) kerbside bin audit, resident's survey and focus groups.
- 1.2 The information in this memo is not confidential and can be made public.

2. Update Te take o tēnei Pānui

- 2.1 The objectives of the research project are to measure food waste collected through mixed organics kerbside services, understand resident's behaviours on mixed kerbside organics collections including the use of benchtop food waste bins, and how the service could be improved.
- 2.2 The Council is one of five local territorial authorities supporting the research project. Timaru District Council, Central Otago District Council, Waimate District Council and Mackenzie District Council are also taking part.

Audit

- 2.3 The MfE's consultants Ahika Consulting are aiming to audit 1,000 household mixed organics bins across the region. The audit will record proportion and average weight of food scraps, green waste, contamination, and an overview of types of food waste.
- 2.4 300 Council mixed organics bins from across the city and potentially the Banks Peninsula will be audited between Monday 20 to Friday 25 May 2024. The collection routes to be audited are still being decided.
- 2.5 Each household audited will receive a letter (**Attachment A**), that has been approved by the Council.
- 2.6 The mixed organics bin will be individually emptied into a large plastic bag which will be tagged with a unique ID. Once the target number of bins have been collected, they will be transported to the audit location.

Memos



- 2.7 Each large plastic bag will be audited individually and then separated into mixed organics waste to be processed at Council's Organics Processing Plant and contamination to be disposed of to landfill.
- 2.8 We are currently in the process of finalising the audit location. To confirm the audit will not be held at the Organics Processing Plant in Bromley.

Survey

- 2.9 Each household that is audited will also receive and a short survey (**Attachment B**), along with the two neighbouring households. The survey and results will be managed by the MfE's consultants AK Research.
- 2.10 Key topics include disposal methods of food waste, amount of food waste, knowledge of mixed organics bin accepted items, and use of mixed organics bins, kitchen caddies and bin liners.
- 2.11 The survey can be completed online using a QR code provided, or a prepaid envelope also provided.

Focus groups

- 2.12 Two focus groups will be compiled for each territorial authority involved from respondents who have completed the survey.
- 2.13 These focus groups will be held between June and July 2024 and expand on the survey and its findings. Primarily they will be an online discussion for groups of six, with the provision for an in-person discussion for groups of eight.

3. Next steps

- 3.1 Staff will work with kerbside collection contractors Waste Management New Zealand and Ahika Consulting to plan the routes to be audited and share the relevant information with all involved parties.
- 3.2 Staff have further meetings planned with the MfE and their consultants to plan and execute the audit, survey, and focus groups.
- 3.3 Contact information for Council staff will be included on the audit letter to answer any queries from the public. We'll also make sure our Citizen and Customer Services Team is informed.
- 3.4 The MfE's consultants will compile a report to summarise the key the recommendations. Staff can share this once received.

Attachments Ngā Tāpirihanga

No.	Title	Reference
A	MfE food scraps collection research project - Audit letter	24/516137
B	MfE food scraps collection research project - Survey	24/516138

Signatories Ngā Kaiwaitohu

Authors	David McArdle - Contracts Supervisor Eilidh Hilson - Regional Waste Projects Facilitator
Approved By	Alec McNeil - Manager Resource Recovery

Ministry for the Environment food scraps collection research project – March to May 2024.

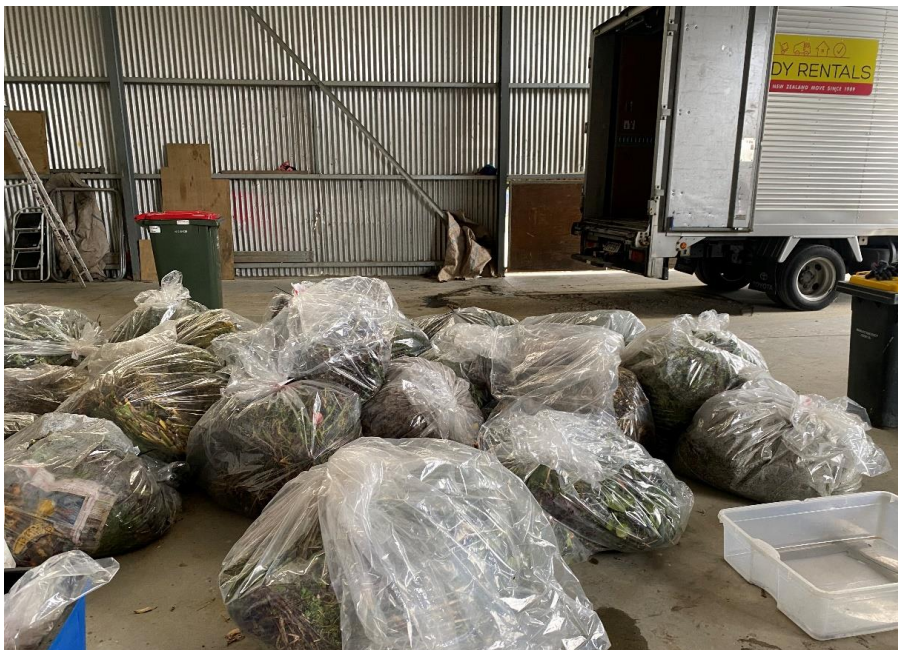
Canterbury and Central Otago photos



Audit staff empty an 80-litre kerbside bin for content auditing, in Christchurch.



Staff sort content into categories for weighing, in Timaru



Bin content awaiting auditing



Content sorted into categories, including contamination and avoidable food waste.



It's time, Canterbury! ***Kua tae te wā, Waitaha***

The Canterbury Climate Partnership Plan
Te Mahere Huringa Āhuarangi o Waitaha

Local government climate actions for Canterbury 2024-2030.

**It's time,
Canterbury**
Our climate change
conversation

CANTERBURY
Mayoral Forum



2 | Canterbury Climate Partnership Plan 2024-2027 DRAFT

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Attachment D

DRAFT

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Attachment D

It's time, Canterbury – Let's act now for a liveable prosperous future

*Kua tae te wā, Waitaha - Me whakarite
ināiane ki ora rawa te apōpō!*

Foreword from the Chair of the Canterbury Climate Action Planning Reference Group – Mayor Dan Gordon and Chair of Mayoral Forum – Mayor Nigel Bowen

Climate change is one of the most pressing challenges of our time, and it affects us all. To tackle climate change and its impacts effectively, we know we must work together. By joining forces and taking bold, collective climate action here in Waitaha/Canterbury, we unlock a multitude of benefits for our communities and can even transform risks into opportunities.

All 11 councils in Canterbury have worked together to develop this plan – the Canterbury Climate Partnership Plan – which sets out how we intend to work together and with others to support our transition to a thriving, climate-resilient, low-emissions region. Every council in Canterbury is already involved with climate action in their city, district, or region. The Canterbury Climate Partnership Plan doesn't detract from that work. Instead, this plan joins the dots, enabling us to align our work programmes, create efficiencies, and provide regional solutions to shared problems.

In drafting this plan, we've sought to get the best 'bang for buck' for Canterbury residents while accelerating the scale and pace of climate action for current and future generations. The 10 climate actions in this plan are the key first steps in our journey towards a sustainable future. It's time to work together, Canterbury.



Mayor Dan Gordon
Chair, Canterbury Climate
Action Planning Reference Group



Mayor Nigel Bowen
Chair, Canterbury
Mayoral Forum



Karakia

*Ko ngā maunga, ko Te
Tiritiri o Te Moana
Ko Aoraki te Kaihautū
Ko ngā awa, ngā awa huka
e rere ana ki te moana
Ko te whenua, Ngā Pākihi
Whakatekateka o Waitaha
Tihei mauri ora!*

*The mountains are the
Southern Alps,
watched over by Aoraki;
The rivers are the snow-fed
rivers whose waters flow out
to the ocean;
The land of the Canterbury
Plains is where people walk
proudly.
Listen up – our life force
is alive!*

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Acknowledgments

The Canterbury Mayoral Forum would like to thank all those who contributed to the many discussions and workshops in the development of the Canterbury Climate Partnership Plan, including past and present members of the:

Canterbury Climate Change Working Group:

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Canterbury Climate Action Reference Group:

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Canterbury Climate Change Working Group and Reference Group Secretariat:

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Environment Canterbury Climate Change and Community Resilience Team:

Morag Butler, Bridget Lange, Kate Williman, Victoria Clare, AnaCapri Mauro.

Te Mana Ora:

Cassie Welch, Rosa Verkasalo, Hebe Gibson, Chantal Lauzon.

It's Time, Canterbury:

Project team and Communications Sub-group

Any key stakeholders or people generous with their time developing and reviewing the document.

Lead Authors:

Isla Hepburn and Alina Toppler, Environment Canterbury Climate Change and Community Resilience Team.



Executive summary

Councils in Canterbury have joined forces to deliver bold climate actions in Canterbury/Waitaha.

All 11 councils in Canterbury have worked together to develop the Canterbury Climate Partnership Plan which sets out how we intend to work together and with others to support our transition to a thriving, climate-resilient, low-emissions region.

The Canterbury Climate Partnership Plan sets out our vision of a thriving, climate resilient, low-emissions Canterbury. These are the 6 key outcomes and objectives we are seeking through delivery of our 10 primary actions and supporting sub-actions. We have developed eight principles which underpin the development and implementation of this plan. These are the values by which we will approach collective climate action in Canterbury.

In June 2024, Councils agreed to fund regional collective climate actions through their Long-Term Plans 2024-34 and a total of \$1.47 million has been confirmed for the first 3 years. Further funding beyond the initial three years will be sought through future annual and long-term plan reviews, and by identifying and taking advantage of co-funding opportunities with key stakeholders.



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Strategic Framework

Vision Our collective purpose and guiding star for climate action in Canterbury

A thriving, climate resilient, low-emissions Canterbury

Principles The values by which we will approach climate action in Canterbury

Treaty based

Equitable

Solutions focused

Informed

Collaborative

Intergenerational

Inclusive

Bold

Outcomes The desired future state for Canterbury in a changing climate



A healthy environment

Our healthy environment enables our communities to thrive.



An equitable and inclusive transition

Our communities are empowered through an equitable and inclusive transition to a low-emissions and climate resilient future.



Prosperity

Our environmental, cultural, economic, and social wellbeing is improved by identifying and taking early opportunities to mitigate and adapt to climate change.



Adapted and resilient communities

Our communities are resilient and have the necessary infrastructure, knowledge, and tools they need to adapt to climate change.



Emissions reduction

Greenhouse gas emissions reductions are achieved in line with our national and international commitments at a minimum.



Climate action leadership

Canterbury is a leader in climate change mitigation, adaptation, and inclusive climate action planning promoting the four wellbeings.

Objectives What we want to achieve through regional joint climate action

Objective one

To work with science, nature and Mātauranga Māori to reduce climate vulnerability and improve resilience.

Objective two

To enable transformational action in an inclusive and equitable way.

Objective three

To maximise co-benefits and identify opportunities for co-funding and financing climate actions.

Objective four

To inform and empower communities to be prepared, improve their resilience and adapt to climate change.

Objective five

To collaborate with communities to use available solutions and encourage behaviour change to achieve a smart, innovative, low-emissions future.

Objective six

To ensure climate change is prioritised in all local government decision making processes in Canterbury.

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Regional climate actions

- 1**
Understanding climate risks and improving resilience
Understand climate hazards and risks in Canterbury to support evidence-based decision making and improve regional resilience.
- 2**
Emissions reduction
Work together across the region to build equitable, inclusive pathways, targets, and key actions to support New Zealand's commitments towards global greenhouse gas emission reduction.
- 3**
Adaptation planning
Support best practise approaches for local adaptation planning with communities.
- 4**
Nature-based solutions
Facilitate the development of a Canterbury blue-green network to increase natural capital, indigenous biodiversity and offer nature-based solutions to climate change effects.
- 5**
Climate change education and advocacy to support communities
Support community understanding about the local impacts of climate change and promote individual and collective climate action.
- 6**
Supporting Papatipu Rūnanga
Support Papatipu Rūnanga with climate action and provide opportunity for their involvement with Canterbury Climate Partnership Plan projects.
- 7**
Integrating climate change considerations into council processes
Work collaboratively to build local government capability and enhance its capacity to adapt in a changing climate.
- 8**
Climate funding and financing
Identify and leverage co-funding and financing opportunities for climate adaptation and resilience.
- 9**
Monitoring and evaluation
Monitor and report on progress towards achieving the actions and outcomes of the Partnership Plan.
- 10**
Implementation
Assemble an implementation team to ensure the successful delivery and implementation of the Canterbury Climate Partnership Plan.

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Canterbury Waitaha

Our region, our home

Situated on the eastern coast of New Zealand's Te Waipounamu South Island, the Canterbury region is renowned for its stunning landscapes, diverse ecosystems, strong economy, and vibrant communities.

From the snowcapped peaks of Kā Tiritiri o Te Moana, the Southern Alps, to Kā Pakihi Whakatekateka o Waitaha, the Canterbury Plains, the region boasts a rich tapestry of natural history and cultural heritage. Canterbury is unique – it is New Zealand's largest region in area and its coastline is long and diverse, stretching from north of Kaikōura to the Waitaki River; there are more than 4,700 lakes and tarns, and over 78,000 km of rivers and streams. Most of Canterbury's 599,694 residents¹ live near or on the coast. The population of Canterbury is projected to grow at the same rate of growth as Aotearoa New Zealand's total population, on average, 0.8% per year between 2018 and 2048.

Ngāi Tahu is the iwi of Waitaha, Canterbury. There are 10 papatipu rūnanga in Canterbury who have kaitiaki status as mana whenua over land and water within their takiwā.

Canterbury is already experiencing the effects of climate change. In recent years, we've seen droughts, floods, fires, changing rainfall patterns, extreme weather events and coastal erosion impacting our region. These events are happening with greater frequency and intensity. Our long coastline is also changing with slower onset changes such as sea level rise.

We know that Canterbury's climate will become warmer, wetter, windier and wilder.

¹ 2018 Census data about Canterbury Region retrieved from <https://www.stats.govt.nz/tools/2018-census-place-summaries/canterbury-region>.

These changes will affect us all and the things we value most: our people (he tangata), the environment (taiao) and biodiversity (rerenga rauropi), our infrastructure (ngā waihanga), our economy and prosperity (ōhanga), our wellbeing (hauora), connection to place and sense of community (whakapapa and hapori). The wellbeing of some communities and individuals are likely to be more affected than others, particularly those who are already vulnerable because of economic, social, health and/or cultural reasons.

Rising temperatures will significantly affect our health (ora), land use, water (wai), energy (hihiri), food (kai) security, natural ecosystems, and recreation.

Canterbury councils see and deal with the impact of a changing climate first hand, including its impact on the environment, infrastructure, businesses, and people's lives. With commitment, collaboration, and planning, local government can lead and support communities in adapting to climate change, building resilience, and reducing their emissions.

Mayoral Forum Plan for Canterbury 2023-2025

The Canterbury Mayoral Forum is the primary mechanism for local government communication, co-ordination and collaboration in Canterbury. Climate change mitigation and adaptation in Canterbury is one of the three priorities under the *Canterbury Mayoral Forum Plan 2023-2025*. Although the Mayoral Forum continues to advocate for governance and decision-making to be devolved to the level of government closest to affected communities, the challenge of taking effective and sustained climate action requires us to work together more than we ever have before.

For the Mayors of Canterbury, the overarching priorities for climate change are reducing our carbon footprint, working together on climate action planning, building community resilience, and making our infrastructure as strong as it can be. Our Plan for Canterbury also highlights the importance we place on playing our part to ensure water, food, and energy security for the region.



The Canterbury Climate Partnership Plan

All Canterbury councils acknowledge that climate change is a significant, long-term challenge, and that we all share a role in adapting and driving solutions to this challenge. Canterbury councils are at different stages of strategy development and action planning and have varying resources available to implement action.

The Canterbury Climate Partnership Plan is about councils pulling together to help Canterbury thrive and prosper in a changing climate; it's our collective vision for a better future. This Plan is also a testament to councils' long-term commitment to working together to tackle climate change, serve our communities and safeguard our environment and the things we love for generations to come.

Importantly, the actions included in the Canterbury Climate Partnership Plan are intended to complement, not duplicate or detract from, the climate efforts of individual councils. The Partnership Plan actions will enable councils to advance their own climate change knowledge and gain momentum with local action.

The benefits of regional collaboration on climate action

There are many benefits to taking regional climate actions. The challenge of climate change response means that we will only be successful if we strengthen our working relationships and help each other on this journey.

Regional leadership and community focus

Climate change will have significant physical, economic, and socio-cultural impacts on our communities. Partnering on climate action allows for joint leadership to address these issues and collectively improve the four wellbeings for Canterbury communities.

A united voice and enhanced influence

Our united voice carries greater weight in advocating for our region's needs to central government. By presenting a unified front, we can help shape legislation and policy and secure climate action funding and finance that aligns with our shared climate objectives.

Leveraging collective resources, sharing knowledge and expertise

Together, we possess a wealth of expertise, resources, and knowledge. By pooling our strengths, we can learn from each other and achieve far more than any one council could alone. From shared research and funding opportunities to coordinated projects, collaboration amplifies our regional impact.

Maximising efficiency

Reducing duplication of efforts and streamlining processes, collaboration allows us to achieve greater efficiency in implementing climate initiatives across Canterbury. With coordinated efforts, we can achieve results faster and more effectively, delivering tangible benefits to our communities.

Fostering innovation

Collaboration sparks creativity and innovation. By sharing ideas and best practices, we can inspire new approaches to tackling climate challenges. Through collaborative research and pilot projects, we can experiment with cutting-edge solutions and pioneer new, sustainable ways of doing things.

Building resilience

Climate change does not stop at district or regional borders. By collaborating across councils and looking beyond to our neighbouring regions, we can develop comprehensive resilience strategies that protect all our communities from the impacts of extreme weather events, sea-level rise, and other climate-related risks.

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Our changing climate

Greenhouse gas emissions

For hundreds of years, human activities have released increasing amounts of greenhouse gases into the atmosphere. These gases trap heat from the sun, causing warming and resulting in a changing climate. Since the 1950s, greenhouse gas emissions have greatly accelerated and are now driving the significant levels of climate change that we are experiencing today.

There are two types of greenhouse gas emissions to consider - long-lived and short-lived gases.

Long-lived gases stay in the atmosphere over very long timescales after they have been produced. Carbon dioxide and nitrous oxide are examples of long-lived gases.

Short-lived gases remain in the atmosphere for less time than long lived gases but have a greater warming impact in the short term. Biogenic methane is an example of a short-lived gas.

Both long- and short-lived greenhouse gases need to be reduced to successfully reach New Zealand's climate change commitments.

The Canterbury Greenhouse Gas Emissions Inventory (2021) is a key tool in our climate action work that will enable us to track changes to emissions over time, assess different mitigation options, and evaluate the effect of central and local government policies on regional emissions.

The Emissions Inventory (see Figure 1) shows us that agriculture produced around a quarter of the region's long-lived greenhouse gases and most of the biogenic methane emissions, totalling around 61% of overall gross emissions. Stationary energy and transport each produced around a third of long-lived greenhouse gas emissions in Canterbury. Waste, and industrial processes and product use, each contributed relatively small amounts of greenhouse gases.

The best available scientific advice says that holding the increase in the global average temperature to well below 2°C above pre-industrial levels is necessary to limit the most severe climate change risks.

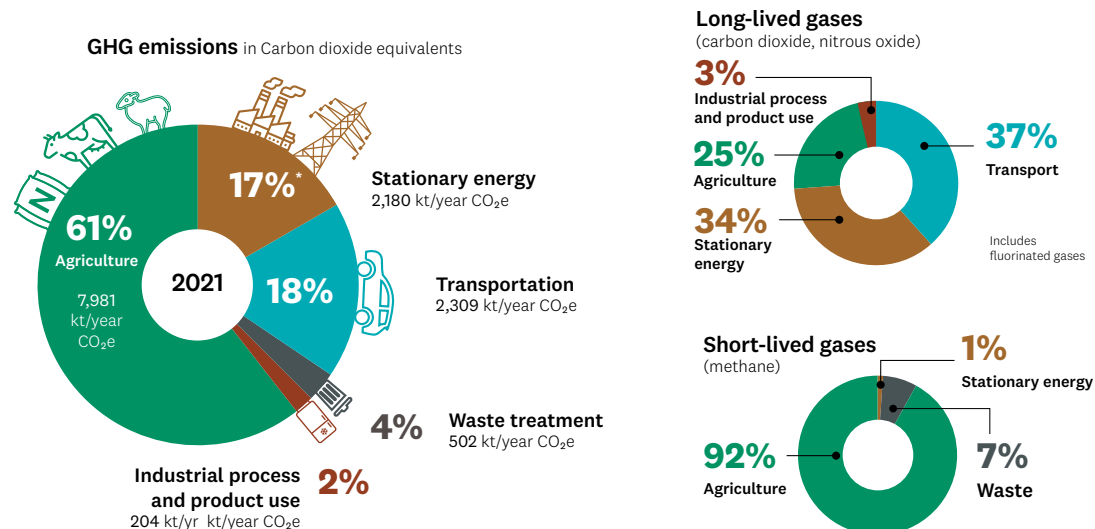


Figure 1: Canterbury's greenhouse gas emissions, 2021
(NB. Percentages have been rounded to the nearest whole number, so charts do not add to exactly 100%)

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New Zealand, along with 195 other members of the United Nations, signed the Paris Agreement in 2015 to ensure that global warming is limited to well below 2 degrees Celsius above pre-industrial levels. This agreement commits signatory countries to mitigate and adapt to the effects of climate change by reducing national greenhouse gas emissions in accordance with Nationally Determined Contributions.

Canterbury has an important role to play in contributing to national and global efforts to reduce greenhouse gas emissions in the atmosphere and we're not too small to make a difference. In fact, Canterbury, blessed with sun, water and wind, is well placed for a successful clean energy transition to a low-emissions future. We can also make big gains with emissions reduction by transitioning to more sustainable transport and agricultural practices.

The best action we can take to help mitigate the effects of global warming is to reduce greenhouse gas emissions at source. In addition to this, we can also help remove carbon from the atmosphere by sequestering or storing carbon. However, even when we do reduce global emissions, some climate change effects, and their consequences, are already locked in due to the time lag between generating the emissions and the impacts being felt. This is why adaptation – taking action to prepare for and adjust to current and projected impacts of climate change – is also important.

New Zealand's emissions reduction targets and plans

Greenhouse gas emissions targets are limits that scientists and policy makers set in their plans to combat climate change. The aim is to halt the increasing emissions and their impact. Aotearoa New Zealand's first emissions reduction plan Te hau marohi ki anamata (2022) contains strategies, policies and actions for achieving our first emissions budget and contributing to global efforts to limit warming to 1.5 degrees Celsius above pre-industrial levels.

New Zealand has made commitments to the following international and domestic emissions targets:

Domestic targets under the Climate Change Response Act (2022)²:

- Net zero³ emissions of all greenhouse gas emissions other than biogenic methane by 2050.
- 24 to 47 per cent reduction below 2017 biogenic methane emissions by 2050, including 10 per cent reduction below 2017 biogenic methane emissions by 2030.

Aotearoa New Zealand's emissions budgets set ambitious and achievable short-term targets that will put us on track to meet these commitments, and national emissions reduction plans lay out strategies, goals and actions to meet these budgets.



² www.legislation.govt.nz/act/public/2002/0040/latest/whole.html#DLM158590

³ Net zero emissions are achieved when anthropogenic emissions of greenhouse gases to the atmosphere are balanced by anthropogenic removals over a specified period. (IPCC, www.ipcc.ch/sr15/chapter/glossary/)

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Climate risks in Canterbury

Canterbury is a large region, with varied geography and environments. This means that risks and impacts of climate change will occur in different ways across Canterbury, and direct and indirect risks⁴ will increase over time. Some risks will be experienced more often and more intensely in some districts and not in others. The Canterbury Mayoral Forum published the Canterbury Climate Change Risk Assessment in early 2022, which was designed to build a shared understanding of climate change risks across the region and to help us prepare and respond effectively. Figure 2 to the right illustrates some of the key risks which will be felt around the region. In the coming decades, many climate change risks to our region are anticipated to become high or extreme. Detailed information on climate risks and impacts in Canterbury can be found on the [Canterbury Mayoral Forum website](#).

⁴Direct risks are those where there is a direct link between a hazard and an element at risk that is exposed and vulnerable e.g. droughts leading to crop failure. Indirect risks are risks that are not directly impacted by physical changes in climate e.g. impacts on mental health, disruptions to supply chains, social wellbeing, and cohesion. (MfE, 2021)

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Urban Centres

For all communities, risks from climate hazards generally include damage to infrastructure from flooding, and disruption to transport routes and supply chains. Changing climate conditions also pose a risk to supporting utilities such as landfills and power supply.

Christchurch is our biggest city. It is a major social and economic hub for the Canterbury Region. The low lying, coastal position of much of the city makes it very exposed to flooding and sea level Kaikōura rise. This poses widespread risk to Christchurch's communities and infrastructure. There is a risk that community cohesion will reduce as a result of increasing climate related damages. People's physical and mental health may also be impacted by changing markets and job availability.

Canterbury Plains

The fertile lowlands of Canterbury are highly important to agriculture. An increasing temperature poses risk of increased heat stress in stock, as well as increases in the occurrence of pests and invasive species. Increased drought potential may introduce a range of stresses, including impacting on water availability. Increased storms, wind, and flooding may increase erosion, and damage crops, pasture, stock, and infrastructure.

Figure 2: Climate risks in the Canterbury (source Tonkin & Taylor (2022) Canterbury Climate Change Risk Assessment)

Montane/ High Country

Increased temperatures, drought, and fire weather will increase erosion, and impact forestry, tourism, and unique ecosystems, contributing to biodiversity stress.

Remote communities may face increased disruption to transport routes, increasing isolation and other stressors.

Freshwater

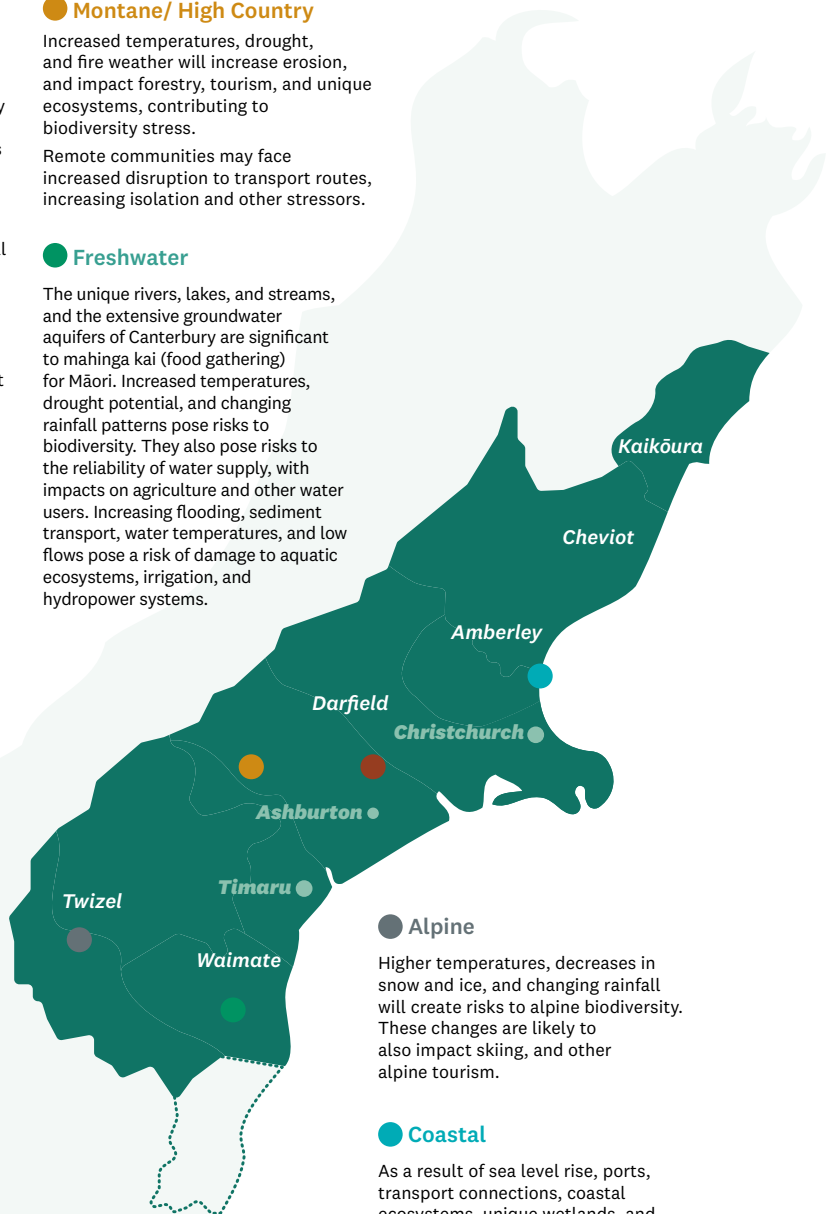
The unique rivers, lakes, and streams, and the extensive groundwater aquifers of Canterbury are significant to mahinga kai (food gathering) for Māori. Increased temperatures, drought potential, and changing rainfall patterns pose risks to biodiversity. They also pose risks to the reliability of water supply, with impacts on agriculture and other water users. Increasing flooding, sediment transport, water temperatures, and low flows pose a risk of damage to aquatic ecosystems, irrigation, and hydropower systems.

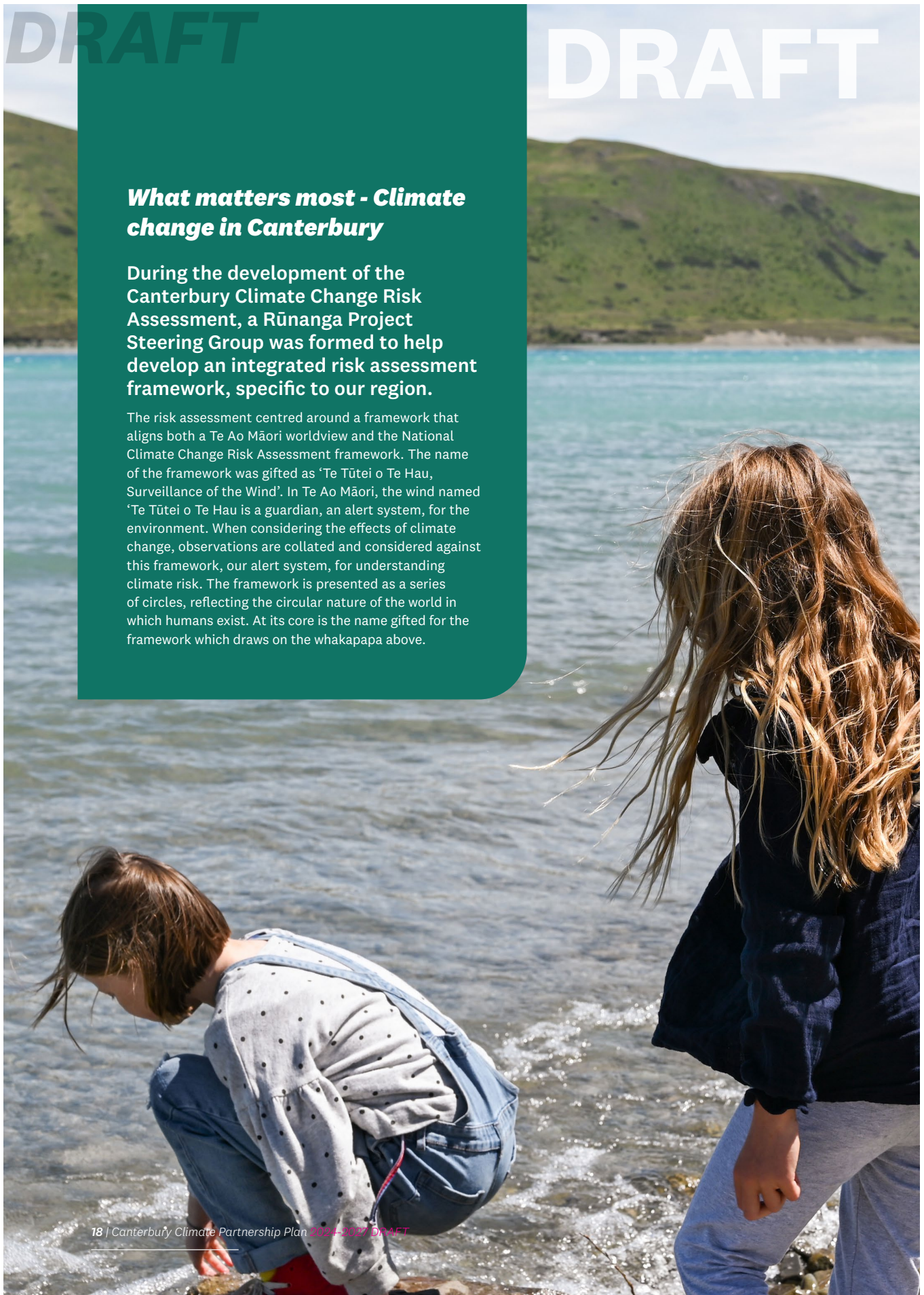
Alpine

Higher temperatures, decreases in snow and ice, and changing rainfall will create risks to alpine biodiversity. These changes are likely to also impact skiing, and other alpine tourism.

Coastal

As a result of sea level rise, ports, transport connections, coastal ecosystems, unique wetlands, and communities at the coastal fringe will be exposed to increasing risk of coastal flooding, salinity stress, and erosion. Changes in temperature and ocean chemistry will impact fisheries and marine ecosystems. This will result in increased mortality and changing population of some species, and changes in behaviour patterns such as migration routes.





What matters most - Climate change in Canterbury

During the development of the Canterbury Climate Change Risk Assessment, a Rūnanga Project Steering Group was formed to help develop an integrated risk assessment framework, specific to our region.

The risk assessment centred around a framework that aligns both a Te Ao Māori worldview and the National Climate Change Risk Assessment framework. The name of the framework was gifted as 'Te Tūtei o Te Hau, Surveillance of the Wind'. In Te Ao Māori, the wind named 'Te Tūtei o Te Hau' is a guardian, an alert system, for the environment. When considering the effects of climate change, observations are collated and considered against this framework, our alert system, for understanding climate risk. The framework is presented as a series of circles, reflecting the circular nature of the world in which humans exist. At its core is the name gifted for the framework which draws on the whakapapa above.

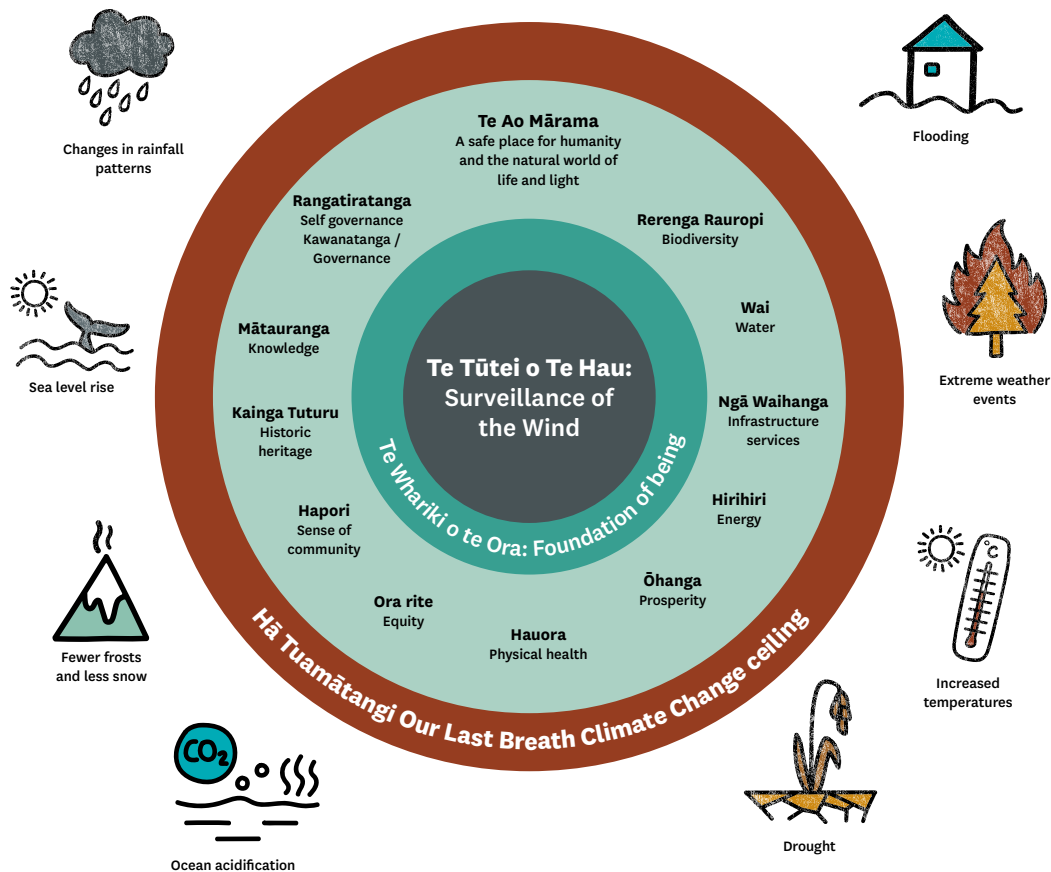
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Shown outside the rings are the key climate impacts that we face



Te Whāriki o te Ora

The dark green ring represents whakapapa, or genealogical connection, that extends from the spiritual realm to that of the human domain. It recognises that humans cannot exist without basic needs and a social foundation.

Te Ao Mārama

The light green ring represents the area in which humans can exist when we are functioning within the capacity of our ecosystems. Ngā pono (the values) identified within this circle are critical for us to understand and respond to when considering climate risk.

Hā Tuamātangi

The red ring represents the upper limit in which humans, environments and ecosystems can continue to exist. Beyond this boundary, it is no longer possible to respond to risks proactively.

This framework guided our thinking when developing collaborative climate actions in the region.

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Working together for climate action in Canterbury

Councils around Canterbury have been ramping up climate action efforts in their districts. Here is a snapshot of progress across the region.



KAIKŌURA
DISTRICT COUNCIL

- Kaikōura District Council adopted a zero waste to landfill policy in 1998, followed by the establishment of Innovative Waste Kaikōura Ltd, which received a Ministry for the Environment Green Ribbon Award in 2002.
- A year later, in 1999, the council became part of Green Globe 21 Communities pilot project, supported by the Ministry for the Environment and the Tourism Industry Association. As part of the project, Kaikōura was officially 'benchmarked' in 2002.
- In 2001, the council developed measures to manage a local approach toward carbon neutrality.
- The council established the 'Trees for Travellers' programme in 2002, where overseas visitors, as well as locals, are playing their part to clear weeds and make way for natives in Kaikōura.
- From 2004 to 2016, the council was awarded the EarthCheck Certification (participation in the programme was discontinued after a review in 2019).
- The council undertook a review of natural hazards within the district (excluding coastal hazards) in partnership with Environment Canterbury. Flood modelling considered the effects of climate change.
- In 2009, Council developed the 'A to B Carbon Free' – Kaikōura Walking and Cycling Strategy.
- The council developed a waste management and minimisation plan in 2021 which recognises the need for modification of residents purchasing practices by influencing through community education and advocacy to central government.
- The council has developed a draft climate change policy, which is awaiting adoption following finalisation of the Canterbury Climate Partnership Plan.



- Hurunui District Council tracked its emissions through greenhouse gas emissions inventories from 2018 to 2023.
- The council commissioned a Coastline Hazard and Risk Assessment report in 2020. This was followed by the Coastal Conversations project in 2020 to identify coastal hazards affecting communities in the district and to understand how these hazards will change over the next 100 years.
- Three out of five communities in the Coastal Conversations project have developed Coastal Adaptation Plans (CAPs) outlining approaches for managing risk to the settlement.
- The Council's Waste Management & Minimisation Plan 2023 outlines the goals to improve efficiency in the waste network, influence and encourage waste reduction in the community, and reduce harmful health impacts.
- Work is underway on an asset and infrastructure resilience project plan and risk assessment.
- Work is currently progressing on a climate change strategy and action plan to reduce council emissions, improve resilience in the council assets and infrastructure, and to lead by example within the community.

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- Waimakariri District Council adopted a Climate Change Policy in 2020.
- The Council developed the 'Waimakariri District Natural Hazards Interactive Viewer' to show results of the '2020 Jacobs Coastal Inundation Modelling' and other natural hazards. The modelling informs the proposed District Plan natural hazard rules such as avoidance of development in high hazard areas or mitigating flood impacts through establishing minimum floor levels.
- In 2020, the council adopted the Organisational Sustainability Strategy and Action Plan.
- To inform climate change planning, the council adopted the NIWA Waimakariri District Climate Change Scenario Report in 2022.
- The council's '3 Waters Infrastructure Climate Change Impact Assessment' and prioritisation of adaptation actions was completed in 2023.
- Climate change considerations are integrated with the 'Moving Forward: Waimakariri Integrated Transport Strategy 2035+', 'Waimakariri Economic Development Strategy 2024-34' and 'Waimakariri Natural Environment Strategy: Our Environment Our Future 2024-2054'.
- In 2024, Council began the development of the 'Waimakariri Resilience Explorer' risk assessment spatial platform.
- Moving forward, the council's 2024-27 agreed climate resilience programme of works includes completing organisational and district risk assessments, developing a District Climate Resilience Strategy, developing organisational and district sustainability and emissions reduction plans, and working with communities to co-develop area-based climate adaptation plans.



- Christchurch was one of the first cities in New Zealand to declare a climate and ecological emergency in 2019, reflecting the importance of these issues for communities.
- In 2019, the council established the Coastal Hazards Adaptation Planning Programme to undertake planning with communities about the long-term future of coastal areas.
- The council is driving actions to reduce emissions and enhance resilience through the Climate Resilience Strategy (2021), Strengthening Communities Strategy (2022), Resilient Greater Christchurch Plan (2015) and through its urban development, transport, and waste management plans.
- In 2022, a district climate risk assessment was completed and the detailed coastal hazards assessment updated.
- Climate resilience considerations are embedded throughout key corporate processes including decision reports, Long-Term Plans, procurement, and project management.
- The council is working towards its target of being carbon neutral for its operations by 2030.

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- Selwyn District Council adopted a Climate Change Policy in 2020.
- Since 2018, the council has been preparing annual organisational carbon emission reports. In 2024, Council completed a three-year work programme and an Emissions Reduction Plan.
- The council commissioned an independent climate impact assessment for council assets. The latest assessment in 2023 incorporates findings from the Canterbury Climate Change Risk Assessment.
- Through strategic partnership funding, the council supports community-based climate action projects (in particular through the Selwyn Community Fund and Selwyn Natural Environment Fund).
- Climate data was incorporated into hazard modelling to inform a review of the Selwyn District Plan, including an interactive viewer for the public to show susceptibility to flooding and/or coastal hazards.
- Climate change considerations are integrated within the overarching district strategy and associated spatial planning and economic development plans.



- Ashburton District's climate change policy was adopted in 2019 and reviewed and updated in 2022.
- Climate change considerations are integrated into Ashburton district strategies including the Open Spaces Strategy 2016-26, Surface Water Strategy 2018-28, Our Natural Place- Biodiversity Strategy 2023-43 & Economic Development Strategy - Rautaki Whanake Ohaoha 2023-33.
- In 2022, the council adopted the Ashburton Climate Resilience Plan.
- A baseline greenhouse gas inventory for the council was completed in 2023.
- Climate change considerations have been integrated into decision reports and business planning processes since 2021. This work is ongoing.
- Environmental and climate change elements are proposed to be improved in Council's community engagement policy.



- Timaru District Council began preparatory work on a Climate Change Strategy in 2022, with independently facilitated community engagement.
- A Climate Change Response Policy was adopted by Council in 2024.
- In the same year, the council added climate change dimensions to procurement- and significance policies to incorporate climate change into policy and decision making.
- On-site work with residents of Milford Huts coastal settlement commenced in 2023.
- In 2022, Council completed a carbon inventory of Council's operational activity, with technical assistance & verification from Toitū.
- Communication material for the public on Household Climate Change Adaptation and Mitigation is currently in development.



- Mackenzie District Council completed a review of climate change data and impacts for the district in 2023, followed by a greenhouse gas emissions inventory for the district and Council in early 2024.
- Engagement on climate change vulnerability in the district is underway, including workshops with community and various sectors (tourism, agriculture, infrastructure and hydro).
- With the above evidence base pieces, the council has now begun work to develop a climate change adaptation and mitigation strategy and plan for the Mackenzie District.

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- Waimate District Council completed a greenhouse gas emission inventory for 2018/19.
- To oversee the development of a climate change strategy, the council appointed a part-time climate change officer in 2023.
- An online, district wide-survey was conducted to gain community interest and input into the strategy development.
- The council hosted multiple climate change information evenings in early 2024 focusing on climate science, youth, cultural, and economic perspectives.
- In 2024, seven climate action planning workshops were held to engage the community.
- The creation of a climate change engagement platform on the council's website is underway, including educational material.
- The council is closely working and collaborating with neighbouring councils, particularly Waitaki, Mackenzie, and Timaru, as well as schools.
- The council is currently finalising its second council carbon footprint assessment for 2022/23.



- The council endorsed a climate change declaration in 2019, which includes several commitments, including developing and implementing appropriate action plans that reduce greenhouse gas emissions and support climate resilience in the district.
- Waitaki District Council prepared its first organisational greenhouse gas inventory for 2018/19, with an update commencing in 2024.
- To protect Oamaru Harbour, Waitaki District Council has invested in erosion prevention measures along Oamaru Harbour's breakwater. This has seen many tonnes of rock and concrete pods being placed to prevent erosion.
- In 2023, the council adopted the Waitaki Climate Change Risk Framework.
- The council's Project Reclaim looks to remediate contaminated land sites which are in danger due to coastal erosion.
- The council's Waste Management and Minimisation Plan includes community communication and education to foster knowledge about a sustainable and low-emissions future in the district.
- In 2024, work is commencing on coastal erosion adaptation planning, including the development of a climate change strategy.



- Canterbury Regional Council established a climate change integration programme in its 2018-28 Long-Term Plan, followed by the integration of climate change into the council's decision making.
- A climate emergency was declared in 2019, followed by regular climate emergency updates to the council.
- Environment Canterbury has convened and provided secretariat support for the Canterbury Climate Change Working Group since the establishment of the Working Group in 2017. This has included leading the Canterbury Climate Change Risk Assessment, the It's time, Canterbury community awareness raising campaign, and the development of the Canterbury Climate Partnership Plan.
- An organisational carbon footprint assessment and decarbonisation plan were completed in 2022, followed by an organisational climate change risk assessment in 2023.
- Environment Canterbury is currently developing a Climate Action Plan and reviewing the Canterbury Regional Policy Statement.

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How we produced this plan

The Climate Change Working Group, consisting of staff members from each of the 11 councils in Waitaha / Canterbury, developed our 10 key climate actions and supporting sub-actions through a robust series of workshops over 2022-2024, with input from all Canterbury councils.

The Climate Action Planning Reference Group, made up of elected representatives from each of the Canterbury councils, acted as a steering group on the plan.

The Working Group focused on identifying tangible actions for the short term, addressing key gaps in knowledge, priority risks and opportunities.

These actions are intended to gain momentum on collective climate action and to sit alongside and support existing and future climate efforts of individual councils.

Regional climate action planning was based on the international best practice C40 Climate Action Planning Framework. This framework draws on the experiences of 96 cities' climate action planning journeys and guided our approach. Although designed for cities, the framework sets out essential components of climate action planning, which we successfully adapted to suit the needs of our regional process.



Figure 3: C40 Climate Action Planning Framework

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What we've heard from engagement with communities and key stakeholders

As part of Environment Canterbury's 'Our Future, Canterbury' themed engagement programme in 2023, the Canterbury Mayoral Forum asked stakeholders and communities for feedback on their climate action priorities, barriers, and perspectives on 'fair' climate action.

Via an online survey, in-person workshops in each district, and community events around the region, participants gave us a range of perspectives on climate action in their local district and in the region. There was broad agreement that councils should take climate action that would:

- regenerate ecosystems through native planting, pest control, and river restoration
- increase renewable energy
- support communities to become more resilient and adaptable
- increase public education and awareness of climate change impacts and solutions
- ensure opportunities for community engagement and empowerment
- streamline regulations and simplify consenting processes
- foster partnerships between government, businesses, non-governmental organisations, and communities
- offer financial support for individuals and businesses to take climate action.

There was broad agreement that the core values of 'fair' climate action include equity, shared responsibility, long-term planning, and science-based solutions.

We have taken stakeholder and community feedback into account during the drafting of the Canterbury Climate Partnership Plan.

Download the *Climate Change Community Reflections and District Summits report*.

Urgency assessment

The Mayoral Forum has historically used three sets of criteria to prioritise joint projects and actions: importance, democratic mandate, and impact.

For the purposes of this plan, we also considered the following questions when assessing urgency and prioritising actions:

- Does the action contribute to current gaps in research and monitoring?
- Does the action have a long lead time to get started?
- Is there a risk of path dependency, i.e. if we don't act now, are we locked into a future we don't want?
- Are there action dependencies and sequencing considerations?

This process helped us develop a short list of actions, and our implementation approach (Appendix 1).

Health Impact Assessment

Climate change is already impacting the health and wellbeing of our population and these impacts will amplify over time.

Extreme weather events and rising temperatures can impact physical, mental health, and wellbeing and result in changes to the natural environment, damage to housing and infrastructure and disruption to livelihoods. Some population groups and geographic locations are more vulnerable to climate change because of their exposure, sensitivity, and capacity to prepare and adapt to climate hazards. In many cases, the people most vulnerable to climate change will be those who already experience inequitable outcomes, including Māori, people with physical and mental health needs and low-income earners.⁵

Te Mana Ora, Community and Public Health Canterbury, conducted a Health Impact Assessment of the collective actions in the Canterbury Climate Partnership Plan. The assessment identified that the actions have the potential to contribute to the health and wellbeing outcomes of the region depending on how the actions are planned and implemented. The assessment emphasised that climate action should be based on evidence, including information about health and equity, and involve a collaborative approach.

In delivering these actions councils will continue to work on cross-sectorial collaboration with key stakeholders, including in the health sector, to ensure that health, wellbeing and equity are considered in the detailed implementation planning of the actions.

⁵ See the *Climate Change and Health in Waitaha Canterbury for further information about health and wellbeing impacts of climate change*.

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Strategic framework for regional climate action planning

Vision of the Canterbury Climate Partnership Plan

A thriving, climate resilient, low-emissions Canterbury

Principles

Eight principles underpin the development and implementation of this Plan. These are the values by which we will approach collective climate action in Canterbury.

We strive to be Treaty based, Collaborative, Bold, Intergenerational, Solutions Focused, Equitable, Informed, Inclusive.

Treaty based/Whakamana i Te Tiriti means:

- Improving our understanding of what is important to our Treaty partners, how this could be impacted by climate change and climate change policy and how we can best support papatipu rūnanga with their own climate actions.

Solutions focused/Whai putanga means:

- Focusing on tangible short-medium term actions that will move us forward and enable councils to progress with transformative local actions with their communities.

Collaborative/Mahi Tahi means:

- Committing to work together, demonstrating respect, trust and open-mindedness for the long haul of the climate action journey, even when times are tough.
- Identifying and working with communities and key stakeholders who are the most impacted by, and/or have the most impact on, climate change risk to find pragmatic and local solutions.
- Working with central government agencies to advocate for solutions appropriate to Canterbury's needs.

Inclusive/Kauawhi means:

- Actively involving and considering the perspectives, needs and contributions of all partners and stakeholders in Canterbury, including marginalised and vulnerable communities in decision making processes and policy development related to climate change.

Equitable/Matatika means:

- The opportunities from climate initiatives and the burdens of climate risks are distributed justly across the region. This means taking action to identify and address both the effects of climate change and social inequity, and the systems that allow for these disparities to exist.

Informed/Whaimōhio means:

- Identifying and filling knowledge gaps and using the best available evidence, including mātauranga Māori, to make good decisions across councils' climate action planning.
- Being clear with each other and communities on what we don't know, and where there are any limitations or uncertainties with our information.
- Balancing the desire for robust evidence and increased certainty to inform decision making with the need to deliver timely impactful action, especially if high-quality evidence isn't available.

Intergenerational/Whakatipuranga means:

- Being good ancestors; working with younger generations to consider the longer-term impacts and consequences of current actions and policies to promote equity, sustainability and opportunity for future generations.

Bold/Pākaha means:

- Matching ambition with action and investment; presenting options for collaborative action that address the size of the challenge, including where this requires tough decisions from communities and our elected members.

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Outcomes

We have identified six long-term outcomes we are seeking to achieve through our collective climate action.



A healthy environment

Our healthy environment enables our communities to thrive.



An equitable and inclusive transition

Our communities are empowered through an equitable and inclusive transition to a low-emissions and climate resilient future.



Prosperity

Our environmental, cultural, economic, and social wellbeing is improved by identifying and taking early opportunities to mitigate and adapt to climate change.



Adapted and resilient communities

Our communities are resilient and have the necessary infrastructure, knowledge, and tools they need to adapt to climate change.



Emissions reduction

Greenhouse gas emissions reductions are achieved in line with our national and international commitments at a minimum.



Climate action leadership

Canterbury is a leader in climate change mitigation, adaptation, and inclusive climate action planning promoting the four wellbeings.

Objectives

Objective one

To work with science, nature and Mātauranga Māori to reduce climate vulnerability and improve resilience.

Objective two

To enable transformational action in an inclusive and equitable way.

Objective three

To maximise co-benefits and identify opportunities for co-funding and financing climate actions.

Objective four

To inform and empower communities to be prepared, improve their resilience and adapt to climate change.

Objective five

To collaborate with communities to use available solutions and encourage behaviour change to achieve a smart innovative, low-emissions future.

Objective six

To ensure climate change is prioritised in all local government decision making processes in Canterbury.

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Regional climate actions

There are 10 key actions we will take on our collaborative climate action journey in Canterbury.

- 1**
Understanding climate risks and improving resilience
Understand climate hazards and risks in Canterbury to support evidence-based decision making and improve regional resilience.
- 2**
Emissions reduction
Work together across the region to build equitable, inclusive pathways, targets, and key actions to support New Zealand's commitments towards global greenhouse gas emission reduction.
- 3**
Adaptation planning
Support best practise approaches for local adaptation planning with communities.
- 4**
Nature-based solutions
Facilitate the development of a Canterbury blue-green network to increase natural capital, indigenous biodiversity and offer nature-based solutions to climate change effects.
- 5**
Climate change education and advocacy to support communities
Support community understanding about the local impacts of climate change and promote individual and collective climate action.

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- 6**
Supporting Papatipu Rūnanga
Support Papatipu Rūnanga with climate action and provide opportunity for their involvement with Canterbury Climate Partnership Plan projects.
- 7**
Integrating climate change considerations into council processes
Work collaboratively to build local government capability and enhance its capacity to adapt in a changing climate.
- 8**
Climate funding and financing
Identify and leverage co-funding and financing opportunities for climate adaptation and resilience.
- 9**
Monitoring and evaluation
Monitor and report on progress towards achieving the actions and outcomes of the Partnership Plan.
- 10**
Implementation
Assemble an implementation team to ensure the successful delivery and implementation of the Canterbury Climate Partnership Plan.

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Action 1: Understanding climate risks and improving resilience

Understand climate hazards and risks in Canterbury to support evidence-based decision making and improve regional resilience.

Action 1.1

Scope and develop a Canterbury-wide visualisation tool for use by councils to support climate adaptation and resilience planning.

Action 1.2

Update the Canterbury climate change risk and urgency assessment to ensure a comprehensive and up-to-date understanding of key risks and opportunities under different climate change scenarios at a regional and district level.



Why we're taking this action

Councils have statutory responsibilities to avoid or mitigate natural hazards and to have regard to the effects of climate change when making decisions. We are also responsible for civil defence and emergency management, as well as improving community resilience.

This action is about furthering our understanding of climate risks in the region so that we can improve resilience. We need to know who and what is at risk, and where, for us to prioritise resources to do something about it.

The first Canterbury Climate Change Risk Assessment gave us a foundational understanding of current and future risks. These will change over time as climate effects intensify, but so too will our sensitivity to hazards and capacity to adapt. Therefore, we need reliable and robust tools to manage data and continually improve our understanding of risks and impacts as climate change unfolds. A tool will help us use consistent and up-to-date information to assess the vulnerabilities of different communities, ecosystems and assets as well as the interdependencies between these. This will enable us to target councils' approaches to addressing potential vulnerabilities, ensuring resources are allocated efficiently.

By increasing our knowledge and understanding of climate hazards and risks we can better support communities to prepare for and adapt to climate change. We want to make this information available to our communities in a consistent, transparent, and easy to understand way.



An equitable and inclusive transition



Adapted and resilient communities



Climate action leadership

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Action 2: Emissions reduction

Work together across the region to build equitable, inclusive pathways, targets, and key actions to support New Zealand's commitments towards global greenhouse gas emissions reduction.

Action 2.1

Collate data and develop models to prepare greenhouse gas emissions inventories and identify emissions reduction pathways for Canterbury to support New Zealand's national greenhouse gas commitments.

Action 2.2

Based on the emissions reduction pathways identified for Canterbury, undertake a regional transition risk and opportunities assessment, considering social, cultural, environmental, and economic impacts, to inform an equitable and inclusive transition to a low-emissions region.

Action 2.3

Work with partners, communities, and key stakeholders to build a regional low-emissions transition strategy that supports equitable, inclusive local pathways to a thriving, climate-resilient region meeting emissions reduction targets.



Why we're taking this action

At a global scale, the more we reduce our emissions, the better our ability to adapt to the impacts of climate change. Put simply, if we do not cut our greenhouse gas emissions, we will be left with fewer choices on how to adapt and react to future challenges.

Canterbury has an important role to play in supporting international and national commitments to reduce greenhouse gas emissions and transition to a low-emissions future. We have a unique emissions profile in our region. Our approach is not to blame and shame particular high-emitting sectors; instead we aim to work with partners and key stakeholders to make robust, evidence-informed decisions about how all sectors can reduce their greenhouse gas emissions in a sustainable and timely way. Our aim is to make it possible for everyone to play their part in our collective climate action endeavour.

By working with others, understanding the risks and opportunities that transition to a low-emissions future presents, we can be strategic about mitigating those risks and leveraging opportunities early to provide for a planned and equitable approach to regional greenhouse gas emissions reduction.

A comprehensive transition strategy will lay out a road map individual councils can use to work with residents to most effectively reduce emissions at a local level.



An equitable and inclusive transition



Prosperity



Emissions reduction



Climate action leadership

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Action 3: Adaptation planning

Support best practice approaches for local adaptation planning with communities.

Action 3.1

Develop and implement a best practice approach for councils in Canterbury to work effectively and efficiently together with communities on adaptation planning and implementation.



Why we're taking this action

No matter how quickly we reduce emissions around the globe or in New Zealand, some level of climate change is already inevitable and we are already seeing those effects around New Zealand. Adaptation means strengthening our ability to cope with risks from natural events like floods, storms and drought.

The Government is developing an adaptation framework to strengthen how New Zealand prepares for the effects of climate change, focusing on where people live and work. The framework is expected to provide greater clarity on adaptation roles and responsibilities, including that of local government and other key players like central government and insurers.

We will continue to play a pivotal role in working with communities to understand what is happening, what matters most, what we can do about it, and how we can implement and monitor adaptation actions. It is both an absolute necessity and opportunity that we use the knowledge and tools created by some of the other partnership plan actions and all work together to figure out the most appropriate adaptation options for communities at risk across each district.

Some districts are already advancing with coastal adaptation planning, for example in Amberley Beach and Whakaraupō/Lyttelton Harbour. But there are other risks, and many other vulnerable communities who we will also need to work with. We won't need to adapt everywhere all at once, nor will we be able to, but we can start working together now to lay the foundation for long-term adaptation planning in Canterbury to ensure a consistent, coordinated and community-centric approach on the ground, avoiding duplication of effort and sharing learnings.



Adapted and resilient communities



Climate action leadership

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Action 4: Nature-based solutions

Facilitate the development of a Canterbury blue-green network to increase natural capital, indigenous biodiversity and offer nature-based solutions to climate change effects.

Action 4.1

Develop a Canterbury-wide natural ecosystem climate change risk and vulnerability assessment.

Action 4.2

Develop a blue-green network plan for Canterbury and accompanying guidance to support locally led implementation.

Action 4.2a

Maximize opportunities to collaborate with key stakeholders to provide guidance on blue-green infrastructure placement and hazard resilience investment⁶.

Action 4.2b

Collaborate and align with Greater Christchurch Partnership and key stakeholders to deliver a blue-green network.

Action 4.2c

Investigate the feasibility of establishing blue-green infrastructure on council-owned land, including identifying priority locations for implementation across Canterbury.



Why we're taking this action

We already have many of the solutions we need to tackle climate change. One of the key things we can do is work with nature to address the climate and biodiversity challenges we face. Nature-based solutions are inspired by, supported by or copied from nature and we can harness these to deliver a multitude of benefits across the four wellbeings⁷.

Nature-based solutions offer a cost-effective and practical approach to both building resilience and capturing and storing carbon. A blue-green network or infrastructure - a series of spaces and corridors that follow and connect blue (e.g. water bodies) and green spaces (e.g. parks, green areas) - provides a nature-based approach to addressing climate change impacts such as flooding and urban heat islands; and reducing emissions through carbon sequestration.

In addition to reducing the effects of climate change, blue-green infrastructure offers various co-benefits. They enhance the liveability of urban and rural areas through better integration of natural and built environments and offer opportunities for place-making and enhanced identity, urban cooling, water management, recreation, landscaping, indigenous ecosystem protection and restoration and habitat creation for indigenous fauna.

⁶ For example, supporting the Nature Code MBIE Endeavour Research Proposal: Nature-based solutions to mitigate climate change-intensified natural hazards

⁷ European Commission, 2015



A healthy environment



An equitable and inclusive transition



Prosperity



Emissions reduction



Adapted and resilient communities



Climate action leadership

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Action 5: Climate change education and advocacy

Support community understanding about the local impacts of climate change and promote individual and collective climate action.

Action 5.1

Continue to develop the 'It's Time, Canterbury' initiative into a comprehensive resource hub for climate education and collective action across Canterbury.

Action 5.2

Collaborate with Civil Defence Emergency Management in Canterbury to produce communications materials that integrate climate action and resilience to natural hazards.

Why we're taking this action

Everyone has a part to play in tackling climate change. We've already mentioned the key role councils play in helping communities prepare for and adapt to climate change, and we're acutely aware how important it is that we communicate with communities in a way that's appropriate to them.

These actions build on the work done to date on 'It's time, Canterbury' where councils have pooled resources, knowledge and expertise for a regional approach to climate advocacy and awareness raising. We aim to educate, empower, and engage by building the 'It's time, Canterbury' content and expanding its reach. We will support communities with accurate and up-to-date information about the urgency of climate change, empower them with the knowledge and confidence to act as agents of change, and engage them throughout the journey to a resilient low-emissions future.

Civil Defence Emergency Management has a critical role in ensuring our communities are prepared, and able to respond, to natural hazards, and in the case of climate change where these natural hazards are exacerbated over time.



An equitable and inclusive transition



Emissions reduction



Adapted and resilient communities



Climate action leadership

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Action 6: Supporting Papatipu Rūnanga

Support Papatipu Rūnanga with climate action and provide opportunity for their involvement with Canterbury Climate Partnership Plan projects.

Action 6.1

Understand the climate action requirements of papatipu rūnanga across Canterbury.

Action 6.2

Support councils to work in partnership with papatipu rūnanga to integrate their requirements into local climate action planning.

Why we're taking this action

Climate change is affecting Ngāi Tahu in unique and important ways, directly threatening wellbeing of mana whenua, their historic heritage (kainga tuturu), infrastructure (ngā waihanga), ability to undertake cultural practices, and disproportionately impacting future generations. The Canterbury Climate Change Risk Assessment showed there are potential risks to Ngāi Tahu interests across all pono (values) contained within Te Tūtei o Te Hau. It also indicated a risk of marginalisation of Ngāi Tahu perspectives in climate action planning.

The Ministry for the Environment has highlighted that empowering Māori is one of the five key principles in Aotearoa's emissions reduction plan and the National Adaptation Plan recognises the importance of embedding Te Tiriti o Waitangi across the climate response.

Te Rūnanga o Ngāi Tahu has developed its Climate Change Strategy Te Tāhū o te Whāriki (Anchoring the Foundations) and Action Plan (Te Kounga Paparangi). These provide direction across a spectrum Canterbury councils have identified these actions so that they can seek to better understand both the requirements of mana whenua and how councils are best placed to support their climate action planning in their takiwā. The actions also provide an open door to future involvement by papatipu rūnanga in the governance and implementation of the Canterbury Climate Partnership Plan.



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-  Prosperity
-  Emissions reduction
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-  Climate action leadership

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Action 7: Integrating climate change considerations into council processes

Work collaboratively to build local government capability and enhance its capacity to adapt in a changing climate.

Action 7.1

Integrate climate change mitigation and adaptation considerations across all council business including decisions, policies, projects, procurement, and infrastructure development.



Why we're taking this action

Not only must communities adapt but councils must too so we are as effective as we can be in a changing climate.

Climate change will impact everything we do and our ability to do things well. To be effective in a changing climate and avoid maladaptation, we must embed climate resilience at our core. This will ensure that climate considerations are not treated as separate or optional but are instead integrated across all aspects of local government operations. This approach helps councils address climate-related challenges effectively by displaying climate leadership, minimising risks, seizing opportunities and helping local communities to adapt appropriately thereby promoting the four wellbeing of current and future generations.



An equitable and inclusive transition



Climate action leadership

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Action 8: Climate funding and financing

Identify and leverage co-funding and financing opportunities for climate adaptation and resilience.

Action 8.1

Advocate to central government for funding to be made available to address the gap between current local government funding and what is needed for the comprehensive local government climate action that is required in the future.

Action 8.2

Explore the feasibility of a Canterbury climate commitment that inspires and unites businesses and communities to accelerate climate action.



Why we're taking this action

Climate action comes at a cost and realising the many benefits of climate action also requires some up-front investment. The wide range and scale of climate actions required by councils in the coming years will require funding and financing beyond council's existing methods.

The recently published He piki tūranga, he piki kotuku, Future for Local Government Report (2023) highlights the gap between current local government funding and what is needed for comprehensive climate action. It suggests there should be a large national fund available for the climate-related actions that need to be taken by local government.

This could represent a significant opportunity for local government around New Zealand, however, it is likely that rates will remain the main funding mechanism for councils for the foreseeable future. By working together to identify and leverage alternative funding and financing opportunities, Canterbury councils can implement climate actions and initiatives without putting further pressure on ratepayers.

It is critical that we develop effective funding and financing structures that enable local government in Canterbury to respond to the evolving challenges and opportunities posed by climate change. We need to use our united voice and work together to ensure councils have access to the right amount of capital at the right time.

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Action 9: Monitoring and evaluation

Monitor and report on progress towards achieving the actions and outcomes of the Partnership Plan.

Action 9.1

Develop and implement a monitoring and evaluation plan which includes the co-development of climate-related indicators appropriate to Canterbury.



Why we're taking this action

We need to regularly monitor and evaluate the Canterbury Climate Partnership Plan to ensure that actions are impactful, and our desired outcomes are being met.

The development of baseline data and climate-related indicators offers valuable data for decision-making, helping assess the region's vulnerability to various climate-related risks, and enabling policymakers to assess the effectiveness of policies and interventions.

It also assists in raising public awareness about the importance of climate action and its impacts, and enables efficient allocation of resources by governments, businesses, and communities.

The use of climate-related indicators can inform the development of effective climate policies, regulations, and incentives, and there is an opportunity to learn from the Climate Change Commission's experience in developing indicators and metrics for climate adaptation when implementing this action.



A healthy environment



An equitable and inclusive transition



Prosperity



Emissions reduction



Adapted and resilient communities



Climate action leadership

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Action 10: Implementation

Assemble an implementation team to ensure the successful delivery and implementation of the Canterbury Climate Partnership Plan.



Why we're taking this action

To ensure the successful implementation of this plan, we need to coordinate a dedicated group of people from councils who have a key role to play in the delivery of these actions. This will allow for the continuation of a collaborative approach and reduce pressure and demands on individual councils who do not have staff capacity to manage project delivery of individual actions.

An implementation overview is included in Appendix 1.

-  A healthy environment
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Future funding and financing of regional climate actions

Climate action will cost us. However, the cost of inaction is likely to be far greater. Studies by Deloitte and others highlight an impending ‘turning point’ where the increased costs of taking decisive action sooner rather than later begin to outweigh the short-term gains from deferring our response.

Focusing solely on an economic analysis of climate change by 2050 (not the broader impacts across different dimensions of wellbeing), in net present value terms (estimated in 2023):

- Decisive action could add \$64billion to Aotearoa New Zealand’s GDP⁸.
- Inadequate action could take \$4.4billion off Aotearoa New Zealand’s GDP and get exponentially worse beyond 2050.

Opportunities and costs will differ across the range of business sectors specific to each region and to realise benefits arising from new opportunities will require commitment from us all. Nevertheless, it redefines the debate around climate action to one of opportunities for growth and avoided costs and losses rather than a financial burden with limited upsides.

In addition, in recent years the delivery of capital projects (including those associated with increasing resilience through certain climate adaptation measures) has experienced rapid cost escalation pressures with civil infrastructure works showing the biggest changes⁹. Decisions to forestall projects with demonstrable benefits could therefore impact their future affordability and viability.

⁸ Deloitte, 2023.

⁹ <https://www.infometrics.co.nz/article/2023-08-rapid-cost-escalation-makes-for-difficult-choices>

¹⁰ The Auckland Anniversary floods insurance losses provisionally exceed \$1b, over three times the total insurance losses for Auckland in 2022. The 2021 Canterbury floods had provisional insurance losses estimated at \$43.8m (Source: Insurance Council of New Zealand). The total cost of works to the end of December 2023 for flood recovery (including response) is \$20 million, with an estimated total costs expected to be \$22.2 million. \$12.5 of these costs, above the Environment Canterbury threshold of \$4.1 million, are estimated to be eligible for application to the National Emergency Management Agency for a 60% central government contribution fore like-for-like asset replacement. Not all damage arising from these events will be included in these figures, for example local government typically self-insures network infrastructure.

This plan sets out a pragmatic and achievable programme of collaborative climate action for Waitaha Canterbury over the next three years, focused around collecting consistent evidence for both mitigation and adaptation, embedding climate change considerations in local government decision-making and processes, improving capability and capacity to respond effectively and monitoring results. We will, however, need to increase and accelerate our investment in on-the-ground mitigation and adaptation actions thereafter if we are to meet our climate commitments and avoid the magnitude of future costs we would otherwise bear. Investing now will help us minimise the impacts future climate-related weather events¹⁰.

Climate Partnership Plan budget

The impacts of COVID-19, high inflation, the cost-of-living crisis, and the threat of economic recession means that local government and ratepayers are faced with an increasing cost burden. These current financial pressures have been top of mind while developing the plan. Ultimately, the financial constraints and competing demands for funding at local government means funding climate actions at a local or regional level in the short term is challenging.

However, this plan offers a pragmatic financial advantage, particularly for the less resourced councils, by working together and leveraging collective funding to deliver on key projects.

In June 2024, councils agreed to fund regional collective climate actions through their Long-Term Plans 2024-34 and \$1.47 million has been confirmed for the first three years. Further funding will be necessary through future annual and long-term plan reviews for continued collaborative climate action, and by identifying and taking advantage of co-funding opportunities with key stakeholders.

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Canterbury Climate Partnership Plan Implementation Overview

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Action ID		Primary action	Sub-actions
1	Understanding climate risks and improving resilience	Understand climate hazards and risks in Canterbury to support evidence-based decision making and improve regional resilience.	1.1 Scope and develop a Canterbury-wide visualisation tool for use by councils to support climate adaptation and resilience planning.
			1.2 Update the Canterbury climate change risk and urgency assessment to ensure a comprehensive and up to date understanding of key risks and opportunities under different climate change scenarios at a district level.
2	Emissions reduction	Work together across the region to build equitable, inclusive pathways, targets, and key actions to support New Zealand's commitments towards global greenhouse gas emissions reduction.	2.1 Collate data and develop models to prepare greenhouse gas emissions inventories and identify emissions reduction pathways for Canterbury to support New Zealand's national greenhouse gas commitments.
			2.2 Based on the transition pathways identified for Canterbury, undertake a regional transition risk and opportunities assessment, including an economic impact assessment, to inform an equitable and inclusive transition to a low emissions region.
			2.3 Work with partners, communities, and key stakeholders to build a regional low emissions transition strategy that supports equitable, inclusive local pathways to a thriving, climate-resilient region meeting emissions reduction targets.
3	Adaptation planning	Support best practice approaches for local adaptation planning with communities.	3.1 Develop and implement a best practice approach for councils in Canterbury to work effectively and efficiently together with communities on adaptation planning and implementation.
4	Nature-Based Solutions	Facilitate the development of a Canterbury blue-green network to increase natural capital, indigenous biodiversity and offer nature-based solutions to climate change effects.	4.1 Develop a Canterbury-wide ecosystem climate change risk and vulnerability assessment.
			4.2 Develop a blue-green network plan for Canterbury and accompanying guidance to support locally-led implementation.
			4.3 Maximise opportunities to collaborate with key stakeholders to provide guidance on blue-green infrastructure placement and hazard resilience investment.
			4.4 Collaborate and align with Greater Christchurch Partnership and key stakeholders to deliver a blue-green network.
			4.5 Investigate the feasibility of establishing blue-green infrastructure on council-owned land, including identifying priority locations for implementation across Canterbury.
5	Climate change education and advocacy	Support community understanding about the local impacts of climate change and promote individual and collective climate action.	5.1 Continue to develop the "It's Time, Canterbury" initiative into a comprehensive resource hub for climate education and collective action across Canterbury.
			5.2 Collaborate with Civil Defence and Emergency Management in Canterbury to produce communications materials that integrate climate action and resilience to natural hazards.

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The Implementation overview outlines the sequence of actions for the first three years of Long-Term Plans, prioritising urgent actions (based on an urgency assessment), action interdependencies, and available yearly budget (subject to LTP deliberations).

Very high urgency High urgency Medium urgency Low urgency

Y1 2024/2025	Y2 2025/2026	Y3 2026/2027		Y4 onwards	Lead Organisation	Resourcing
initiate	execute and complete	maintenance and licensing	Review CCPP		Waimakariri District Council	\$ for procurement and consultant costs, staff time
				initiate, execute, complete	Environment Canterbury	\$ for procurement and consultant costs, staff time
initiate	execute and complete				Environment Canterbury	\$ for procurement and consultant costs, staff time
	initiate and execute	complete			Environment Canterbury	\$ for procurement and consultant costs, staff time
	initiate	execute and complete			Environment Canterbury	\$ for procurement and consultant costs, staff time
initiate	execute	ongoing		ongoing	Hurunui District Council	staff time
initiate and execute	complete				Environment Canterbury	\$ for procurement and consultant costs, staff time
	initiate	execute		complete	Waimakariri & Selwyn District Council	\$ for procurement and consultant costs, staff time
initiate	execute	execute		complete	Waimakariri & Selwyn District Council	\$ for procurement and consultant costs, staff time
initiate	execute	ongoing		ongoing	Waimakariri & Selwyn District Council	staff time
	initiate	execute and complete		ongoing	Waimakariri & Selwyn District Council	\$ for procurement and consultant costs, staff time
initiate	execute	ongoing		ongoing	Environment Canterbury	staff time
	initiate, execute, complete				Environment Canterbury	staff time

DRAFT

Canterbury Climate Partnership Plan Implementation Plan

Item 5

Attachment D

Action ID		Primary action	Sub-actions
6	Supporting Papatipu Rūnanga	Support papatipu rūnanga with climate action and provide continuing opportunities for their involvement with Canterbury Climate Partnership Plan projects.	6.1 Understand the climate action requirements of papatipu rūnanga across Canterbury.
			6.2 Support councils to work in partnership with papatipu rūnanga to integrate their requirements into local climate action planning.
7	Integrating climate change considerations in council processes	Work collaboratively to build local government capability and enhance its capacity to adapt in a changing climate.	7.1 Integrate climate change mitigation and adaptation considerations across all council business including decisions, policies, projects, procurement, and infrastructure development.
8	Climate funding and financing	Identify and leverage co-funding and financing opportunities for climate adaptation and resilience.	8.1 Advocate to central government for funding to be made available to address the gap between current local government funding and what is needed for the comprehensive local government climate action that is required in the future.
			8.2 Explore the feasibility of a Canterbury Climate Commitment that inspires and unites businesses and communities to accelerate climate action.
9	Monitoring and evaluation	Monitor and report on progress towards achieving the actions and outcomes of the Partnership Plan.	9.1 Develop and implement a monitoring and evaluation plan which includes the co-development of climate related indicators appropriate to Canterbury.
10	Implementation	Assemble an implementation team to ensure the successful delivery and implementation of the Canterbury Climate Partnership Plan.	
			Proposed yearly budget (subject to LTP deliberations)

DRAFT

Item 5

Attachment D

Very high urgency High urgency Medium urgency Low urgency

Y1 2024/2025	Y2 2025/2026	Y3 2026/2027		Y4 onwards	Action Lead	Resourcing
initiate	ongoing	ongoing	Review CCPP	ongoing	All councils	\$ for papatipu rūnanga participation, staff time
					Canterbury Mayoral Forum Secretariat	\$ for papatipu rūnanga participation, staff time
initiate	execute, complete	ongoing		ongoing	Ashburton District Council	staff time
initiate	execute	execute		ongoing	Christchurch City Council	staff time
initiate, execute, complete					Canterbury Mayoral Forum Secretariat	staff time
initiate, execute, complete					Environment Canterbury	\$ for procurement and consultant costs, staff time
initiate, execute, complete					Environment Canterbury (with action lead organisations)	staff time
\$190,000	\$740,000	\$540,000				
Total \$ 1,470,000 NZD Through collective contributions from Canterbury councils for Year 1 - Year 3 of 2024-2034 Long Term Plans						



Canterbury Climate Partnership Plan
Record Number: PU1C/8935 | Environment Canterbury Publication ID: R24/20
ISBN: 978-1-99-002797-0 (Print) | ISBN: 978-1-99-002798-7 (Web)

**It's time,
Canterbury**
Our climate change
conversation

CANTERBURY
Mayoral Forum



6. Report on 2023 2024 CWJC Waste Minimisation Fund Projects

Reference Te Tohutoro: 24/1209713

Responsible Officer(s) Te Pou Matua: Eilidh Hilson, Regional Waste Projects Facilitator

Accountable ELT Member Pouwhakarae: Brent Smith, Acting General Manager City Infrastructure

1. Purpose and Origin of the Report Te Pūtake Pūrongo

- 1.1 The purpose of this report is to provide the Committee with information about how the money allocated to the 2023-24 funded projects has been used.
- 1.2 This report is staff generated.

2. Officer Recommendations Ngā Tūtohu

That the Canterbury Waste Joint Committee:

- 1. Receives the information in the Report on 2023 2024 CWJC Waste Minimisation Fund Projects Report.

3. Background/Context Te Horopaki

- 3.1 For the financial year 2023-24 the Committee approved the projects in Table 1. Applicants were required to report back on spending and activities, by June 2024.
- 3.2 CCC communications and marketing have proposed preparing a media article profiling projects, to share with all contributing councils. Supporting projects in this way, raises their profile to potential further stakeholders and may encourage future applicants.

Table 1: Funding approved for the 2023/24 round of the contestable CWJC Waste Minimisation Fund

Applicant	Requested Funds	Funding Granted 2023-24
Lincoln University	\$ 20,000.00	\$15,000
All Heart NZ	\$ 50,000.00	\$26,500
Digital Future Aotearoa (Recycle a Device)	\$ 44,685.00	\$20,000
Walk LIGHTLY	\$ 11,835.00	\$10,000
Kaiapoi Community Hub Trust (Satisfy Food Rescue)	\$ 50,000.00	\$20,000
Para Kore Marae Incorporated	\$ 10,500.00	\$10,500
Cook Brothers Construction	\$ 30,000.00	\$10,000
TOTAL		\$112,000

4. Considerations Ngā Whai Whakaaro

Lincoln University

- 4.1 Food infused coreflute cards are used in current pest monitoring activities in public spaces. The bite marks are analysed, to determine presence in the area. However, as depicted in *Picture 1*, the widespread use of this monitoring method, leads to plastic pollution in public parks and reserves.



Picture 1; Plastic coreflute cards, shredded by predators

- 4.2 \$15,000 was granted to contribute to the research and development of an alternative (*Picture 2*). Of this, \$11,395 was spent at SCION Research Centre. Lincoln University PhD candidate Katie Pitt carried out a biodegradation study, commencing in January 2024 and scheduled to continue until September 2024.

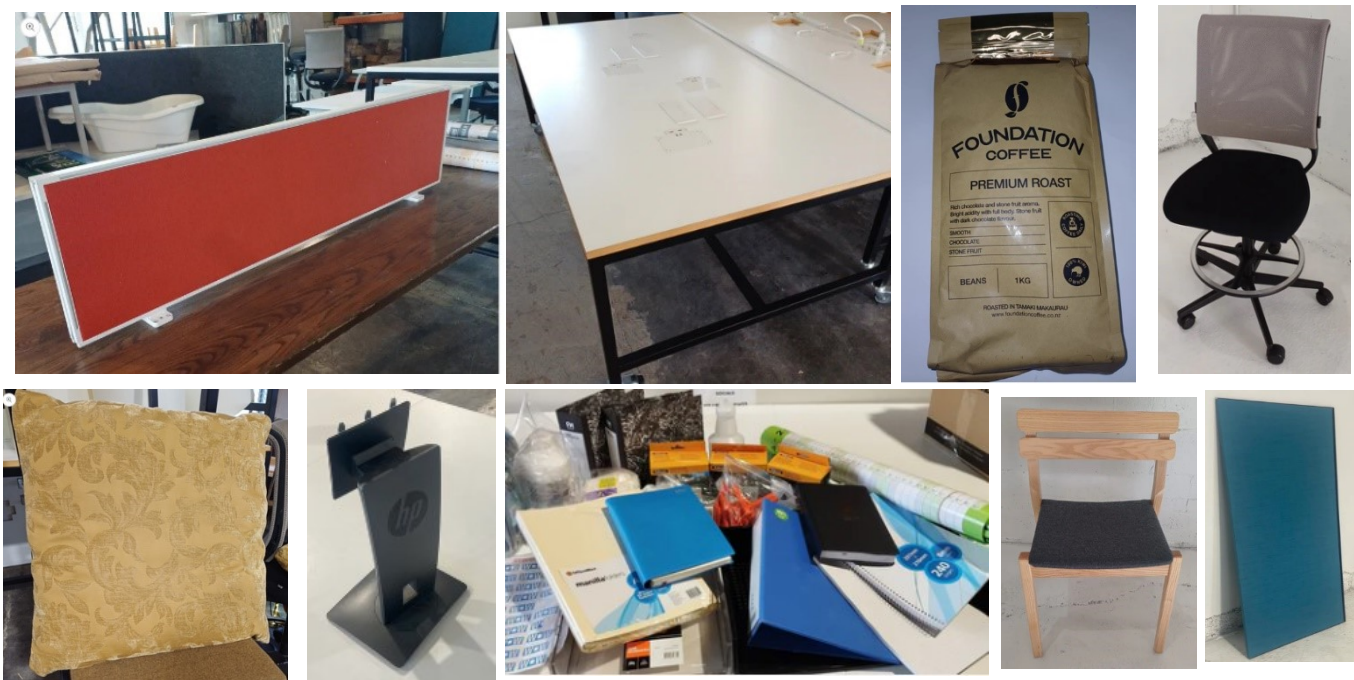


Picture 2: Biodegradable wood- based card alternative prototype.

- 4.3 Results so far indicate that the materials used for the alternative material cards decompose by 75%-80% within the first 6 months and meet the requirement for complete biodegradation within 12 months, at regular environmental temperatures.
- 4.4 The applicant experienced significant laboratory price increases and changes in availability of testing methods. Rising financial restraints did limit intended ecotoxicity testing of worms and seedlings from compost containing the product. However, further research and communication with a manufacturer in Germany, indicates that the product has promising application as an alternative. Further details are included in **Attachment A**.

All Heart NZ

- 4.5 All Heart NZ Charitable Trust provide a professional service to corporates seeking to meet waste minimisation targets. Businesses are charged the equivalent local dumping gate fee per tonne, for the collection and redistribution of their unwanted business assets. These include items such as furniture, stationery, kitchen cabinetry, PPE and hospitality bedding (examples in *picture 3*). All Heart then work with social agencies and charities for redistribution, while also selling select items online and in store, to offset overhead costs.
- 4.6 The objectives of All Heart NZ in applying for funding to the CWJC, was to receive assistance to establish their first hub in the South Island. Six hubs are now established in the North Island.
- 4.7 The opening of the hub at 122 Burke Street, Sydenham Christchurch, occurred on 7 May 2024 and was attended by multiple stakeholders. The \$26,500 funding from the CWJC was acknowledged as having been critical in establishing operations. It was noted that this was the only funding grant received, as All Heart NZ have been able to co-fund and cover additional costs based on their partnerships, particularly Spreydon (Christchurch) Baptist Community Ministries Trust.
- 4.8 All Heart NZ continue to expand to wider Canterbury partners. Further details are included in the funding report, **Attachment B**. A list of all stakeholders can be found at <https://allheartnz.org.nz/partners/>.



Picture 3: Examples of redundant office items for sale at the Christchurch Resource Recovery Hub.

Digital Future Aotearoa (Recycle a Device)

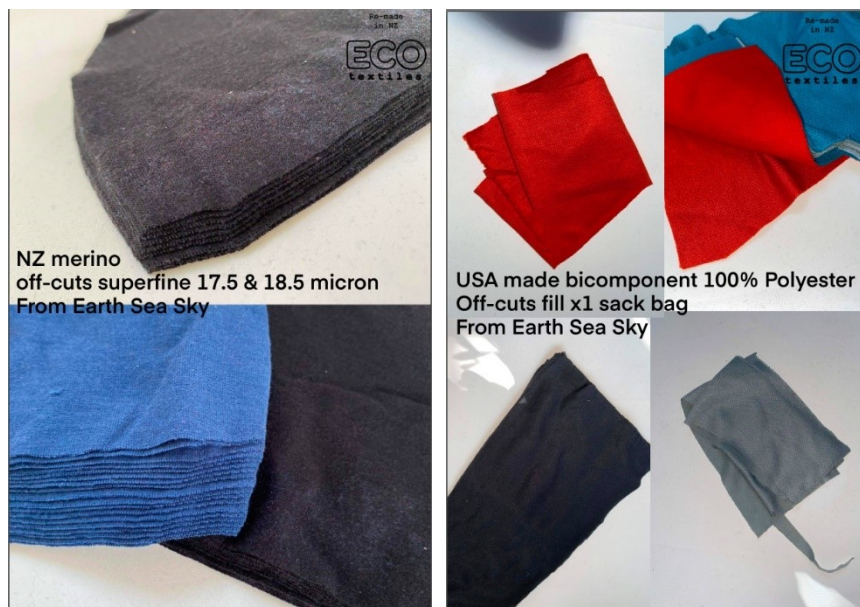
- 4.9 Recycle a Device ("RAD") processed 192 redundant laptops, from 35 Canterbury donors since October 2023. This is almost half a tonne of devices that would have been a fire risk if placed into recycling or waste collection infrastructure. RAD have also provided useful insights. For example, the risk of cheap devices such as Chromebooks being more likely to be disposed of incorrectly. Attendees are therefore taught to repair these devices where available, as well as more expensive equipment.
- 4.10 As of 30 April 2024, \$10,057.55 has been spent. The remaining \$ 9,942.45 is for workshops for the remainder of 2024. As per **Attachment C**, rural South Canterbury areas have been focused on, as per the request of the CWJC.
- 4.11 Recycle a Device also provided imagery to advertise the CWJC fund. This was included in the agenda from the previous CWJC meeting on 8 April 2024.
- 4.12 Depicted in *picture 4* is a Christchurch based workshop, held in addition to the CWJC funded South Canterbury workshops, showing the type of activity carried out by students receiving training.



Picture 4: Recycle a Device, Māori tertiary pathways school holiday programme at Ara, September 2023.

Walk Lightly

- 4.13 WALKlightly received a \$10,000 grant to connect Canterbury designers with textile waste from the wider garment and second-hand industries. The funding allowed for the creation of a professional image for “ECO Textiles”, educational resources and waste reduction workshops. This has strengthened the connections with local tertiary institutions, the New Zealand fashion and uniform garment industries, second hand clothing, homeware businesses and charities, and allowed for employment of local machinists. This has catalysed further sponsorship from businesses. A full list of these stakeholders, is included in **Attachment D**.
- 4.14 WALKlightly have also expanded their operations to further develop in-house processing of sorted textiles for local creatives to access. An example of sorted offcuts is depicted in *Picture 5*. The objective to divert 1 tonne of fabric was met. Due to challenges with ongoing availability of the rental space, \$2,040 remains, reserved for a remaining textile reconstruction workshop, and to employ post-fashion students under short term contracts to trial zero-waste patterns from patched fabrics.



Picture 5: Scrap fabrics from New Zealand owned company “Earth Sea Sky”, processed for reuse.

Kaipoi Community Hub Trust (Satisfy Food Rescue)

- 4.15 Satisfy Food Rescue received \$20,000 to progress the design and development of a shared Community Hub to allow for waste minimisation and activities, in North Canterbury. The concept is depicted onsite, in *picture 6*. The Waimakariri District Council have also provided information on their website; waimakariri.govt.nz/community-nd-recreation/living-in-waimakariri/community-projects/kaipoi-community-hub
- 4.16 Of the \$20,000, \$1,750 (excluding GST) has been spent on consultations and design options between February 2024 and April 2024, from RW Design, who also consulted with Miles Construction. The remaining \$18,250 is earmarked for consultation fees for 5 hours per week, for internal project management to focus on the build. Updates on building progress are included in **Attachment E**. Funding has limited progress, however a public crowdfunding campaign in November 2023 with a goal of \$20,000, raised \$31,392.

- 4.17 A new design plan from Cohesive Construction is currently being drafted. It is hoped that these updated plans will provide a more affordable option to be considered. The increased popularity of the services to be housed on site, particularly from both retailers and recipients of activity carried out by Satisfy Food Rescue, is hoped to further drive the progression of the project.



Picture 6: Satisfy Food Rescue - Office and food re - distribution hub plans. October 2023.

Para Kore Marae Incorporated

- 4.18 The funding of \$10,500 to Pare Kore Marae Incorporated has been spent to meet the objectives to; deliver five Te Ao Māori worldview based workshops, sign up 5 Rōpū (groups) to the Oranga Taiao (ongoing environmental stewardship) programme, reduce waste (and recycling) from Rōpū by 50%, and provide two case studies. As per attachment F, all objectives were achieved, with 33 workshops delivered. *Picture 7 depicts community engagement in South Canterbury.*
- 4.19 In doing so, partnerships were expanded across the region, with rural Canterbury communities found to be particularly receptive. Increasing interest from local government, businesses, community groups and whānau, to meet waste minimisation targets or goals, means high demand. Challenges, therefore, included the time capacity of the Canterbury Region Team Leader to deliver and engage, and check in on ongoing tonnages diverted.



Picture 7: Pare Kore community education delivered in Timaru and Waimate

Cook Brothers Construction















- 4.20 The purpose of this grant was to provide tools and consumables for free workshops for students from school and community groups, to teach repair and woodworking skills alongside waste hierarchy education. Primary school students attending one of the workshops, are depicted in *picture 8*.
- 4.21 Of the \$10,000 granted, \$6,240 has been spent. At the time of application in 2023, the programme target was to divert 2- 4 tonnes of construction waste. The total tonnages exceeded this, at 4.7 tonnes. Over 20 community groups were engaged with, and a list of the items produced in workshops, such as shelving, cupboards, planter boxes and play equipment is provided in **Attachment G**. The programme is now intended to be self-sufficient.
- 4.22 Useful insights include the need for broader industry and societal changes. Cook Brothers suggested that a centralized system offering accessible resources such as skilled staff, training, materials, storage space and equipment could be used to demonstrate how the principles of repair, reuse, and repurpose can be incorporated into everyday life.



Play equipment including giant tetris for Cancer Society

Picture 8: Children using the tools and PPE provided, to make birdboxes with timber offcuts, and wooden toys made by the carpenter, provided to local charitable services.

Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A  	Lincoln University - Report on 2023 24 Grant Expenditure	24/1209834	91
B  	All Heart NZ - Report on 2023 24 Grant Expenditure	24/1209835	93
C  	Digital Future Aotearoa (Recycle a Device) - Report on 2023 24 Grant Expenditure	24/1209839	99
D  	WALKlightly Eco Textiles - Report on 2023 24 Grant Expenditure	24/1209838	103
E  	Kaiapoi Community Hub Trust (Satisfy Food Rescue) - Report on 2023 24 Grant Expenditure	24/1209836	107
F  	Pare Kore - Report on 2023 24 Grant Expenditure	24/1219021	122
G  	Cook Brothers - Report on 2023 24 Grant Expenditure.pdf	24/1219022	130

In addition to the attached documents, the following background information is available:

Document Name – Location / File Link
Not applicable

Signatories Ngā Kaiwaitohu

Author	Eilidh Hilson - Regional Waste Projects Facilitator
Approved By	Alec McNeil - Manager Resource Recovery Lynette Ellis - Head of Transport & Waste Management

CWJC Report – Katie Pitt

Confirmation of how much of the grant allocated was spent to date, or when it will be spent

- Of the \$15,000 granted to me by the CWJC, **\$11,395** was spent at SCION Research Center.

If or when the project was or will be completed;

- The biodegradation study, being done at SCION research centre commenced in January 2024 and is scheduled to continue until September 2024.

The aims/objectives when applied for in 2023

- This project aims to remove the majority of plastic from the conservation sector by phasing out single-use corflute chew cards and replacing them with an environmentally friendly, biodegradable alternative. To determine how the eco-friendly material degrades, biodegradation testing will be done at SCION Research Center.
- To ensure that the biodegradable material will have no negative environmental impact, disintegration and ecotoxicity testing is required.

The achievements and learning points of the project

Monthly updates on biodegradation progress have been provided as follows:

March

Biodegradation --36%

Cellulose - 56%

April

Biodegradation - 43%

Cellulose - 71%

May

Biodegradation - 47%

Cellulose – 76%

Based on this data, although limited, it is projected that by September, biodegradation will reach 75%-80%. These results are promising, indicating that the materials used for the eco-friendly cards will naturally decompose by 75%-80% within the first 6 months, meeting the requirement for complete biodegradation within 12 months. While it is unfortunate that the worm ecotoxicity, and seedling ecotoxicity could not be completed due to financial restraints, further research and communication with the manufacture in Germany has determined that the product will have no adverse environmental impact when it breaks down in the environment due to all components of the material are derived from fully natural ingredients.

‘Obstacles’ encountered, and any suggestions for others to learn from.

- As with most projects, funding and time were two obstacles faced during this research. When SCION research centre was originally approached, the pricing was as below:

Tests	Test standard	Test Duration	Sample quantity	Cost per sample
1 Characterisation FTIR and thickness Heavy metals Zn, Cu, Ni, Cd, Pb, Cr, Mo, Se, As Hg F Volatile solids	ISO 11885 ISO 16772 EN 15408 EN 12879	8 weeks	250g test material	\$1,544
2 Biodegradability	ISO 14855-1	Min 13 weeks Max 52 weeks	400g test material	\$4,500 for first 6 weeks + \$290 per week thereafter
3 Disintegration – Laboratory-scale	ISO 20200	13 weeks	100 g in final form	\$7,976
4 Compost quality testing	Compost preparation Disintegration Pilot-scale ISO 16929	13 weeks	4 kg test material shredded or as fine powder (<0.5 mm)	\$6,422
Seedling Ecotoxicity	OECD 208	6 weeks	4 kg compost	\$5,500
Ecotoxicity – Worm	ASTM E1676	6 weeks	4kg compost	\$8,739

Table showing original prices of different testing options at SCION Research Center – May 2022

- With this pricing in mind, the original plan was to conduct the biodegradability testing for 13 weeks (\$6530), the seedling ecotoxicity testing (\$5,500) and the worm ecotoxicity testing (\$8739), totalling \$20,769

	Standard	Time frame	Material needed	Cost
<i>Home Biodegradability</i>	ISO 14855-1	52 weeks	400 g test material	\$26,325
<i>Industrial Biodegradability</i>	ISO 14855-1	26 weeks	400 g test material	\$15,015

Table showing prices of biodegradability testing – September 2023

- After re-contacting SCION Research Center, it was found that as well as prices being increased significantly - the shorter 13 week biodegradability option was no longer available, and in order to do both the seedling ecotoxicity, and worm ecotoxicity testing, the compost preparation disintegration testing needed to be one prior – adding on an extra \$6422.
- Fortunately, SCION was willing to honour some of the previous pricing of the biodegradability testing. It was decided that a 6 month, home biodegradability test would be conducted at 25C. This was chosen as it was closer to a regular ‘environmental temperature’ instead of the industrial 52C which, although would’ve given faster results, may not have accurately represented real-world scenarios.



All Heart NZ Charitable Trust

Canterbury Waste Joint Committee Grant – Accountability Report

- **Confirmation of how much of the grant allocated was spent to date, or when it will be spent**

We were pleased to receive a grant of \$25,600.00. The total grant has been spent. This includes as per the budget submitted with our application - training for the Store Manager and team in setting up an All Heart Store, establishment of the premises, including signage and equipment, advertising, travel costs and contribution to salaries and overheads.

- **If or when the project was or will be completed.**

This project involved establishing a corporate resource recovery hub in the Canterbury region in collaboration with our local partner, Spreydon Baptist Community Ministries Trust.

The project began in September 2023 and The Hub located at 122 Burke Street, Sydenham, Christchurch, was officially opened on Sunday May 7th 2024.

- **Aims and Objectives – Achievements.**

1. **To provide a circular economy solution for corporate waste in Christchurch by establishing a corporate resource recovery hub in the Christchurch region.**

We have supported Spreydon Baptist Community Ministries Trust to set up a dedicated All Heart Store Christchurch to provide this circular economy solution for all corporate and construction waste in the Canterbury region. A formal Partnership Agreement was signed on 1st December 2023. The Store has been successfully operating and our ReDirect team have been working to support our corporate clients in the area to engage our services and redirect items away from landfill.

2. **Create skills development and training for those who need it most.**

Alanah Matthews joined as the Manager of the Store in October 2023 and travelled to Auckland in February 2024 for a week of training at our Manukau Hub. This included going through our lengthy (43 pages) Store Manual to ensure full training on all aspects of stock management, online listings, retail, sales, health & safety, HR, our Kaupapa and

values. Alanah joined the All Heart Store National Strategy planning for 2 days, along with Ben Austin, a key volunteer who has supported the set up of the Christchurch Store. Our National Rangatira All Heart Stores, LJ Unuia continued the training by travelling to Christchurch for 3 days in February and was joined by Elden Baek, Office Manager for a day.

Flynn Adamson joined the team as Store Assistant in April 2024 and has also received training and development. He is a school leaver carrying out an internship and seeking part time paid employment.

3. To provide upcycling and recycling opportunities and community engagement with local marae, charities, churches and NGO's.

The Store has a close collaboration with South West Baptist and Grace Vineyard churches and has had support from many volunteers in the set up phase as well as the Trustees of the local Trust. Stepping Stones Trust have been a supporter and a collaboration has been developed with Snoopy Mark who carries out all the recycling for the site, including washing machines, other metal, or hard to recycle items, to keep these out of landfill.

We have been able to achieve all our aims and objectives of the project. In partnering with a local Trust, we have successfully supported them on their journey and were delighted to be present for the opening of their Hub. Please see all the photos below.

- **The learning points of the project.**

Obstacles:

- Difficulty locating the right premises that were suitable for the functions for the Resource Recovery Hub.
- Finding the right staff /Store Manager to fulfil the required role.
- Partnering with local businesses to redirect their corporate waste.
- No vehicle of their own to transport goods.

Overall learning:

- Start early. The process takes longer than expected.
- Set up clear systems, processes and train the team to create a good foundation for operations.
- It is important to find the right staff who will carry the same vision and enthusiasm for the project.
- Engage in local partnerships with those who are invested in their local community.
- Actively promote on social media to engage local people.

All Heart Store Facebook post - <https://www.facebook.com/allheartstore>





The community came together to celebrate the opening of All Heart NZ Christchurch Store.



National and local staff beside the sign for the new Christchurch Resource recovery hub



Duane Major, Board Chair of Spreydon Baptist Community Ministries Trust
Eilidh Hilson, Regional Waste Projects Facilitator for Canterbury Waste Joint Committee Fund
Kate Hall, Trustee of All Heart NZ and aka Ethically Kate



LJ Unuia AHNZ National Rangitira and Store Manager Alanah Matthews



Store Assistant Flynn Adamson



Snoopy Mark, local recycler and supporter
Paul Matthews, volunteer and supporter



20 May 2024

Via email: cwjc@ccc.govt.nz

Tēnā koe Eilidh,

This letter is to provide you with the reporting requirements for the Canterbury Waste Joint Committee Fund received by Recycle A Device, a programme of Digital Future Aotearoa.

Confirmation of how much of the grant allocated was spent to date, or when it will be spent

As of 30 April 2024, \$10,057.55 of the \$20,000 grant has been spent. We forecast that the remaining funds will be exhausted by 30 November.

If or when the project was or will be completed

Recycle A Device is an ongoing programme of work to which the CWJC grant is co-funding. It is reliant on securing funding to continue.

The aims/objectives when applied for in 2023

3 schools x 100 laptops @ 2.3kg each = 690kg/year

- 44 laptops in Waitaki
- 25 laptops in Methven
- 40 laptops in Ashburton

Total since October 2023: 109 @ 2.3kg = 250.7kg



www.digitalfutureaotearoa.nz

The above data specifically excludes information pertaining to activities within the Christchurch City Council zone.

Number of items that were diverted: 100 laptops.

35 Canterbury based donors have altered what they do with their old laptops and instead choosing to give them to RAD with our repair/reuse first approach.

We have received 192 laptops from these 35 donors. $192 \times 2.3\text{kg} = 441.6\text{kg}$ diverted since October 2023.

The achievements and learning points of the project

So far, this funding has contributed to the continuation of a RAD Club in Ashburton (re-training carried out on 22 February).

Through CWJC we were connected with the team at the Waitaki Resource Recovery Trust and ran a 'Fix 1 Keep 1' workshop where 23 rangatahi came together for a day to repair laptops that they could take home if needed, or we were able to distribute to local ākonga (March 16).

We have also provided 4 Chromebooks to Waitaki Boys High School students.

Chromebooks aren't usually available through our programme, mostly because they're made so cheaply that when they break it's not financially viable to refurbish them.

Earlier this month, we also ran a re-training session with Mt Hutt College (3 May) for 15 ākonga.

This excerpt was written by Kirsty Saxon (teacher) for the community paper:

RAD is opening the door to a world students may not have encountered before, and all the possibilities it holds in the tech industry. Year 9 student, George Frost, said it was a brilliant opportunity to learn about repairing devices which would be a great skills in their future careers.

Last week our students participated in a day-long training, with RAD tutors, Riley and Newtown, who travelling from Otago and Wellington Universities. Quinn Bessai said the tutors were awesome because they were passionate, knowledgeable, and were able to even sprinkle in some humour to the training. The students will now take their new computer tech skills to our very own MHC RAD Club.

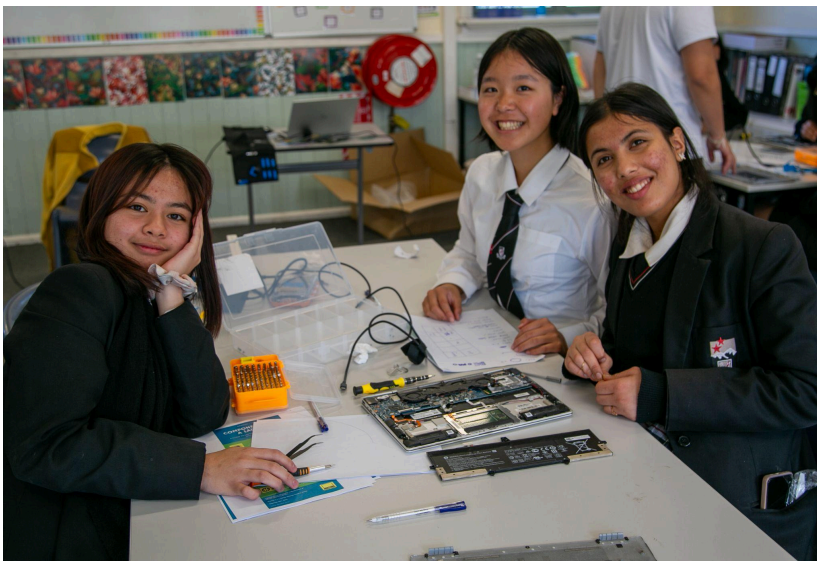
The goals of the programme are to develop the engineering skills of students, get laptops into the hands of those who need them most, and divert e-waste from landfill. Year 13 student Josh McKenzie said, "It was a great learning experience, and an opportunity to help



Report 1 June 2024 for Canterbury Joint Waste Committee RAD

1

the community.” The laptops that are refurbished by the MHC RAD Club will be donated to our students who need them, or individuals from within the Methven community.



Report 1 June 2024 for Canterbury Joint Waste Committee RAD

2



'Obstacles' encountered, and any suggestions for others to learn from

We are seeing a reduction in the number of laptops being donated to RAD. This is due to the current economic climate leading businesses to keep hold of their hardware for longer. This is impacting how many laptops we are able to refurbish and distribute into the community and is the reason for the lower than hoped attainment of the aims/objectives.

Nāku iti noa, na

Bronwyn Scott
General Manager - Digital Future Aotearoa
bronwyn@recycleadevice.nz



Report 1 June 2024 for Canterbury Joint Waste Committee RAD

3

**WALKlightly
Project ECO Textiles
Grant Review**



Item 6

Attachment D

1. Confirmation of how much of the grant allocated, was spent to date, or when it will be spent

Remaining \$2040, reserved for textile reconstruction workshop work, was delayed, the company who was incubating us is in the process of selling (our workshop host!) The programs have been prepared and ready to distribute this work. I am expecting to have the factory work completed by July 30th 2024.

Contracting the work to be done at home studios.

2. If or when the project was or will be completed

The project of establishing suppliers and receivers for the soft textile library achieved, and growing. But this is an ongoing relationship.

The workshop to support this established creative community has established framework for educating and promoting textile waste-reduction, the start of a zero-waste pattern library but requires further exempling and promotion to reach a wider audience, with wider industry applications.

I would like to further develop in-house processing of the sorted textiles to create a primary resource for local creatives, so I am applying for funding from creative.nz to help support a zero-waste soft textile workshop in town, with testimonials from all the artists and designers who would benefit.

3. The aims/objectives when applied for in 2023

Target weight of textiles re-distributed 1000kg (achieved)

- creating a marketable identity for ECO textiles through high quality promotional content
- encouraging further sponsorship from local businesses
- employing part-time machinists to process waste textiles
- landing more established NZ fashion houses, providing larger scale quantities of textiles destined for landfill to be re-used!

4. The achievements and learning points of the project

Our list of textile contributors has grown to include many reputable companies, providing new off-cuts and end of line rolls:

- Albion Chch manufacture for Cactus and various other NZ contracts like
- Police and army uniforms.
- Untouched World, a sustainable fashion manufacturer here in Chch.
- Ruby an NZ garment manufacturer
- Weft knitt manufacturer in Chch
- Earth Sea Sky performance clothing manufacturer in Chch

And quality second hand soft-textiles from:

- the curtain bank
- various opp-shops collecting and sorting on our behalf
- and the original supporter ECO Central

Our list of artists receiving these textiles for re-use has grown to include:

https://www.instagram.com/future_nz?igsh=NHI1dDQ3ZHAwaiUw
<https://www.instagram.com/discipleofdiscipline?igsh=MXI2Nmtldmw0NXF1dg==>
<https://www.instagram.com/elodysaddictions?igsh=eDlxYmw2NWUwcWdz>
https://www.instagram.com/jack_bradley_fashion?igsh=MTE2YWdmODEya28zbq==
https://www.instagram.com/flamank_clothing?igsh=bzZ6aG95MWVyeW51
https://www.instagram.com/last_nz
https://www.instagram.com/ode_adornment
https://www.instagram.com/tahlia_king_artist
https://www.instagram.com/thirtynine_label?igsh=MWw3bGxuZXR4cmFzZg==
https://www.instagram.com/testarotta_fashion?igsh=bWU2N3Z0bGw3OW5q
https://www.instagram.com/enchantress_nz?igsh=MW01eDJoeWF5eGxzaw==

And currently X4 Ara fashion students.

I have done my introduction class with fashion students at Ara, informing them of the textile option I am providing, and have arranged to make it a visit per term, demonstrating options for the next life of their scrap fabric, and how to reduce waste.

Support from NZ craft platform [Felt.co.nz](https://www.felt.co.nz) has given us the opportunity to co-plan a market event this Xmas for the creatives using textiles destined for landfill. A community event to spread the word about garment re-construction, a marketable identity that unites our community of artists and designers (and of course sales opportunities for them).

We were gifted x2 industrial sewing machines from Earth Sea Sky, an unexpected cost was deducted from the budget to service them, but an asset gained as they are both in great working order! These will be greatly utilised in our scrap processing workshop.

5. 'Obstacles' encountered, and any suggestions for others to learn from

My hosted space wai's now uncertain due to the sale of their company, if a project requires a space that is somewhat out of their control they may have to consider including rent or koha in the budget and sharing space with a similar or compatible business nearby. For me it made sense to contact the network of designers I was already in correspondence with and see who is seeking workshop space, retail and gallery spaces have also been good options.

The workshop aspect has been delayed due to the uncertainty of the location; the remaining funds have been reserved to employ post-fashion students under short term contracts to trial zero-waste patterns from patched fabrics.

I am excited by the evolution this project is taking, and how it is naturally picking up momentum, and reaching the people who will most benefit.

Esther Riley
WALK lightly director
Walkfashionshownz@gmail.com

See attached photos

- a zero-waste workshop work pack
- textile library sorting
- second hand and off-cut waste textile marketability
- industrial sewing machines sponsored by earth sea sky



CIRCULAR GARMENT CONSTRUCTION



zero-waste lay-plan

002



zero-waste method

002 square singlet



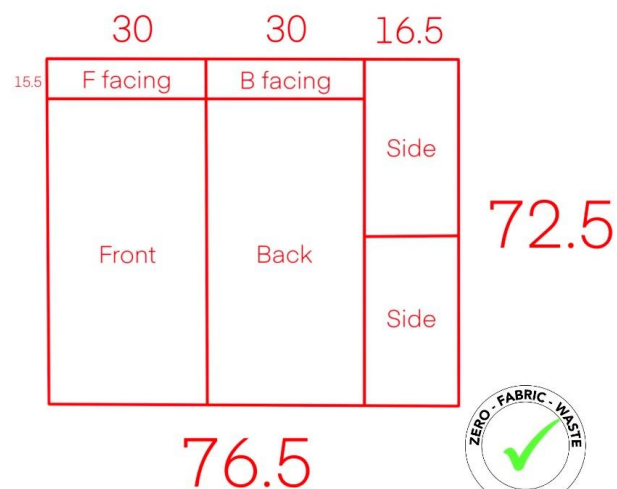
Square singlet

Small, 76.5 width, 72.5 length

Medium (+2 front & back, total width=80.5, lengthen 1cm, so, 73.5)

Large is a medium with sides widened total 2cm, width=82.5 length 74.5.

XLarge is (+4 front & back, total width=86.5, lengthen 1cm, so, 75.5)



All seams are 1cm unless specified

1) patchwork dimensions

Small = 76.5cm width by 76cm length

Medium =

Large =

XLarge =

2) Bag out straps of other fabric scraps, 22cm long, 10cm wide, and top stitch a pattern.

2) sew sides of facing to front & b, then sew the top edge, catching the straps, bag out and press!

3) dart boob

4) sew sides to f & b panels

5) topstitch arm hole hems

6) leave bottom hem raw edge

7) patch tag

zero-waste design

002



Square singlet



Thriving, strong, satisfied and sustainable community



31st May 2024

Report for the Canterbury Joint Waste Committee:

With thanks from the Satisfy Food Rescue team.

- **Confirmation of how much of the grant allocated was spent to date, or when it will be spent**

\$1,750 (excluding GST) was spent on consultations and design options between February 2024 and April 2024 from R W Design who also consulted with Miles Construction.

The remaining \$18,250 is earmarked for consultation fees for Phillipa Hunt to dedicate 5 hours per week to push the project forward.

This dedicated time away from the office will allow Phillipa to focus on the build and make traction. A number of factors have held up progress on this project to date, not least the unexpected growth of our organisation at the end of 2023 when we stepped up to take on food rescue for an additional 6 supermarkets. In addition, the funding landscape has changed significantly, holding up progress as we investigate different ways to fund this project with a smaller budget. This consultancy proposal is on the agenda to be considered and agreed at the next Satisfy board meeting in June.

- **If or when the project was or will be completed; If there are issues, please contact us via this email, or give me a call, so we can work with you on this, prior to June.**

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There is no completion date for this project currently as we have had to review our design options for the building to do our best to make it more affordable. The current funding climate is a huge barrier to our progress.

We are waiting on a new design plan from Cohesive Construction and once received this should provide a more affordable option to be considered. Concept plans and costs are due to be received in early June.

With unprecedented growth since January 2024 it is more important now than ever we make traction with this build as we have totally outgrown our current space which presents a number of challenges around traffic movements at site and H&S concerns.

- **The aims/objectives when applied for in 2023** *These were included in the grant recipient confirmation email back to each successful applicant.*

Aims and objectives:

To reduce poverty and make our community more food secure: Our growth is a great example of achieving this.

To increase volunteering capacity: Again our growth is a great example of this. 25% of our volunteer team are new. We are currently training and onboarding new volunteers most weeks.

Raise the profile of the issue of food waste and promote the reduction of food waste both commercially and domestically: This has been achieved as shown with the huge growth in our social media platforms, media attention, and the success of our crowdfunding campaign. (details below)

<https://www.satisfyfoodrescue.org.nz/post/satisfy-food-rescue-ensures-nothing-goes-to-waste-in-a-bid-to-support-those-in-need>

<https://www.odt.co.nz/star-news/star-business/woolworths-steps-help-canterbury-food-rescue-or-ganisations>

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https://www.1news.co.nz/2023/12/08/supermarket-and-two-food-rescue-agencies-step-in-to-fill-gap-left-by-canterbury-food-bank/?fbclid=IwAR1AWLeZb6wqq6BvmCM_elj3rTaEuFna-s-wj-81js0UgHMXkFmSttHko8w

To build a hub that connects the community of Kaiapoi - especially after it was disseminated in the earthquakes and has not had a usable community space since: The Kaiapoi Community Hub Trust will no longer build/manage the buildings in the hub. The agreement now is that each stakeholder will fundraise and build their own premises. This means that the communal hall will be on hold until such time that the Council can fund and build this or that the Kaiapoi Community Hub Trust is connected with all stakeholders at site to deliver this aspect. The Satisfy building will now have a commercial kitchen added to the design to repurpose/upcycle food and be available to the wider community for use.

To construct a purpose built facility for Satisfy: This is unfortunately not achieved yet but we are positive we can make it work despite the setbacks.

- Please note:

Copied from our 2023 application to show you how much we have grown in the last year:

"Satisfy Food Rescue currently distributes approximately 1 tonne of food a day to local community organisations. Approximately 80- 90% of the food we distribute is rescued and diverted from either landfill or animal feed. There has been considerable growth in donors using Satisfy Food Rescue as a service, with no expected slowing of this growth in the future. This is reflected in the year on year increased volume of food that Satisfy has distributed and is shown quite clearly in the Satisfy data provided (refer to Satisfy 2022 Annual Report). It is very difficult to quantify and anticipate future food rescue volumes, however Satisfy estimates, based on historical data, that at least 300,000 kilograms of food per year will be distributed."

We now rescue from 16 supermarkets (7 more since our application within the Christchurch district and now rescue on average 36.2 tonnes of food per month. The last 2 months have seen over 42 tonnes of food distributed. Our geographical reach has increased with onboarding new recipients following the closure of Food Bank Canterbury. This means that our food now reaches an estimated 200,000 people per year - an increase of 80,000 people and the volume of food redirected from landfill has doubled. Some days it's triple what we predicted it would be in our application. Based on

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these numbers we can predict that in the next year we will divert 130,000-200,000 more kilograms of food from landfill than estimated in the initial application - the need for a new building for Satisfy is now a huge priority for us.

- **The achievements and learning points of the project** *Please address each of the aims and objectives whether these were achieved or not. Feedback from participants, and photos and figures such as graphs, are encouraged.*

1. Roading and works have been completed at site:



Dig out started October 2023



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Road and works completed March 2024

2. Redesign options are being investigated with Cohesive Construction to see if a pre-engineered Warehouse will work out cheaper than a bespoke plan. We are feeling really positive this is a really viable option to move forward with.
3. R W Design and Miles construction have offered new design plans - please see options attached. However, to get it within budget the design is actually at an unusable height currently. Before spending any further funds on this we are waiting for Cohesive Construction's commercial team to finalise design and costs for comparison.
4. Stef and Phillipa have had multiple meetings with the Waimakariri Council who are really keen to push this project forward. We have received a draft lease for consideration.
5. We successfully ran a crowdfunding campaign in November 2023 to raise \$20,000 towards getting to site and were blown away to raise \$31,392. This shows us that our community is really behind this project.
6. We have spent time researching the option of moving into a building that is already built. There are no viable options in North Canterbury so far - but are not ruling out the option.
7. We have spent time researching land or buildings to purchase, and we will continue to investigate this as a possibility, however, holding and servicing a mortgage is not the preferred option.

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8. We have had several meetings with designers in consultation with Miles construction to discuss our current position and options to reduce costs.
9. There has also been a meeting with Core Steel to see some of their building design options first hand.
10. Meridian has very generously funded a new EV van that we received in January 2024. At a meeting with their community team they said they would love to support Satisfy's build with decarbonisation funding options such as EV chargers, Solar panels etc.

- **'Obstacles' encountered, and any suggestions for others to learn from.** *This can include recommendations for similar projects, feedback for stakeholders and on the application and funding process, and any other relevant information.*

1. The land that is earmarked for our site is on regeneration land which means a TC3 foundation. Because of the building's size, weight, and need to have a concrete floor for a forklift etc it means a huge expense. The foundation costs have proved a significant barrier so far. We are currently looking at ways to reduce this - such as the office being slightly separated so it can be on piles.
2. The change in the funding landscape has been a big hurdle for this project. With the cost of living crisis and change of Government - funders have less funds available to support large projects such as a build and appetite from corporate sponsors has waned. We have however, made headway in brainstorming other, cheaper ideas for the build as mentioned above.
3. We have completely outgrown our current premises and in addition to the traffic movement/H&S challenges at our current site, we have found our operation has now become a nuisance to our neighbours. Should the option to build a simple warehouse be

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an option we can afford quickly, office staff could work out of a portacom in the interim. Our primary concern is getting a larger space for sorting, packing and redistributing and to make our operation as safe as possible.

4. The decision to change direction from the Kaiapoi Community Hub Trust delivering the project in its entirety to each stakeholder being responsible individually, has meant that we have had to pivot to find a way to deliver this as Satisfy. Although frustrating, changing to have individual responsibility for finding a way forward has meant that we can drive forward and concentrate wholly on what Satisfy needs are.

Please see attached R W Design report with new design option.
Apologies, we are still waiting for the build report from Cohesive Construction.
Invoice and payment from R W Design
Photos from our successful crowdfunding campaign

Please get in touch if you require anything further.
Thank you again for your support,

PROPOSED NEW DEVELOPMENT

SK##	NAME
SK-00	COVER SHEET
SK-01	LOCATION PLAN
SK-02	SITE PLAN
SK-03	FLOOR PLAN





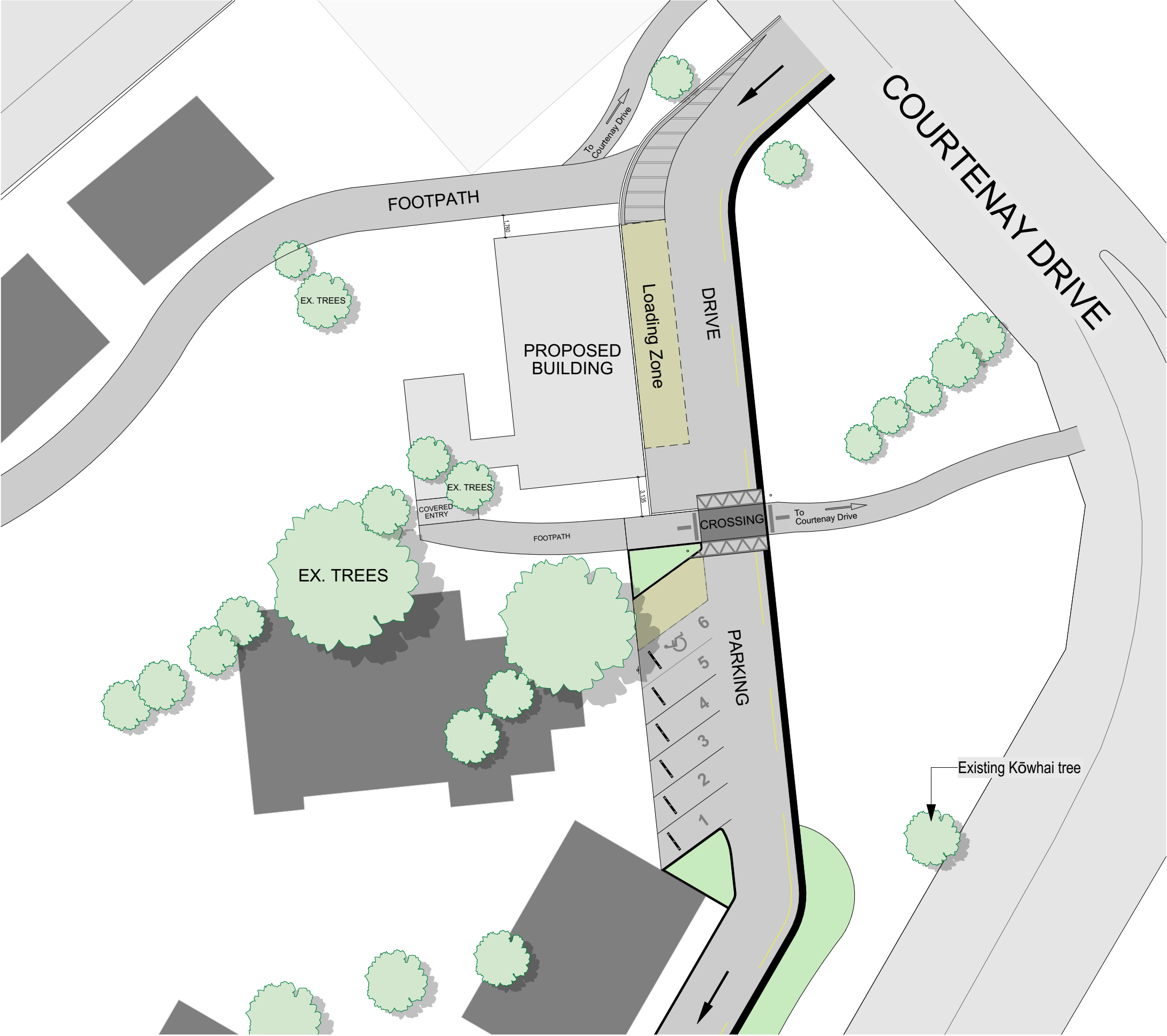
RW DESIGN

P: 03 312 2502 W: www.rwdesign.nz
A: 178 Williams St, Kaiapoi E: designsteam@rwdesign.nz

DESIGNER: MB	PROJECT# 21075
TECHNICIAN: KT	

SK-00
SHEET 1 of 4

LEGAL NOTES: 1. Subject to council approval 2.All measurements to be confirmed on site by the contractor prior to the commencement of work 3. 2023 RW Design Limited. All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of RW Design Limited



#	DATE	ISSUE/REVISION
1	17.04.2024	SITE INFO CONCEPT V1
2	29.04.2024	SITE INFO/ FLOOR PLAN CONCEPT V1

RW DESIGN

P: 03 312 2502
A: 178 Williams St, Kaiapoi

W: www.rwdesign.nz
E: designteam@rwdesign.nz

PROJECT NAME:
PROPOSED NEW DEVELOPMENT

FOR
SATISFY FOOD RESCUE

ADDRESS:
COURTENAY DRIVE, KAIAPOI

LEGAL DESCRIPTION:
INSERT LEGAL DESCRIPTION

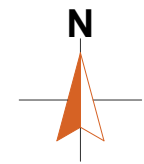
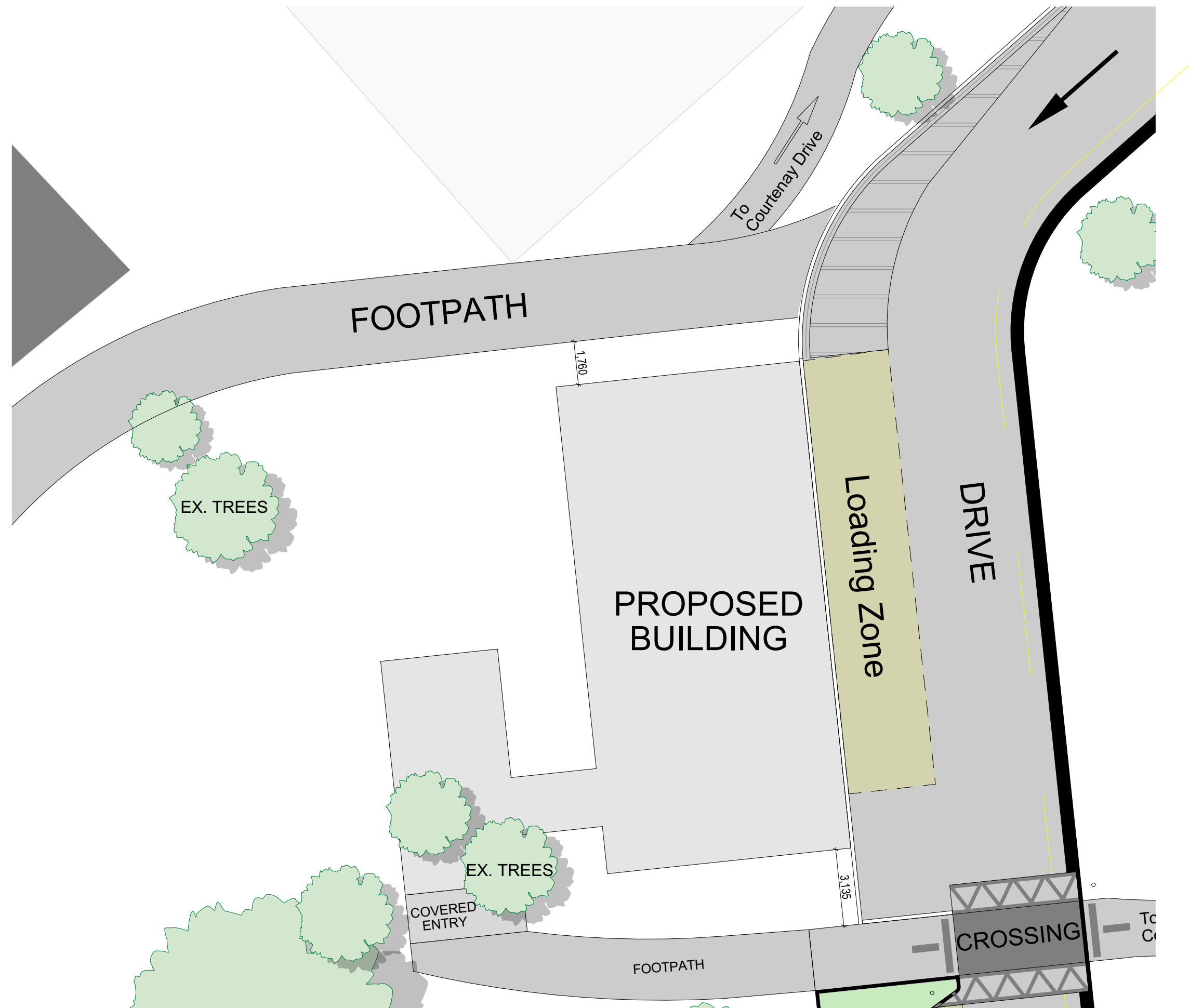
PROJECT #21075

DESIGN: MB	PRELIMINARY SET NOT FOR CONSTRUCTION
DRAWN: KT	
CHECKED: -	

SHEET NAME
LOCATION PLAN

SCALE: 1:200 AT A2

SK-01
SHEET 2 of 4

[illegible]



GENERAL NOTES: GROUND FLOOR	
Floor Perimeter (Over Foundation)	91,1154.00mm
Office Wing Area over Framing	46.08m ²
Office Wing Area over Foundation	46.08m ²
Storage Wing Area over Framing	200.00m ²
Storage Wing Area over Foundation	200.00m ²
Total Floor Area over Framing	254.41m ²
Total Floor Area over Foundation	254.41m ²

[illegible]

PROPOSED NEW DEVELOPMENT

SK##	NAME
SK-00	COVER SHEET
SK-01	LOCATION PLAN
SK-02	SITE PLAN
SK-03	FLOOR PLAN





RW DESIGN

P: 03 312 2502 W: www.rwdesign.nz
A: 178 Williams St, Kaiapoi E: designteam@rwdesign.nz

DESIGNER: MB	PROJECT#
TECHNICIAN: KT	21075

SK-00

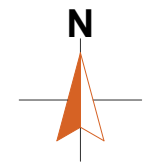
SHEET 1 of 4

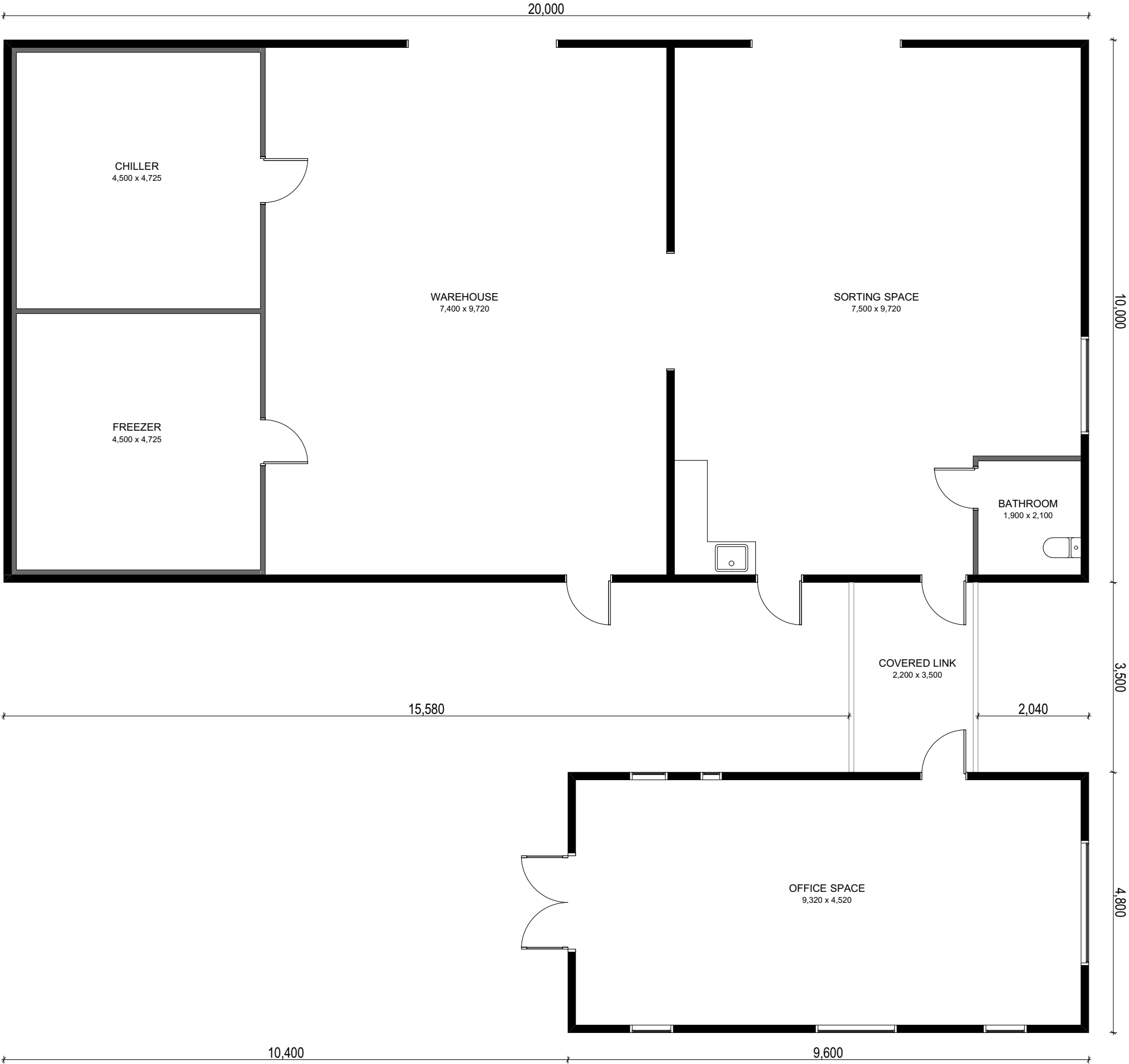
LEGAL NOTES: 1. Subject to council approval 2.All measurements to be confirmed on site by the contractor prior to the commencement of work 3. 2023 RW Design Limited. All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of RW Design Limited



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1	17.04.2024	SITE INFO CONCEPT V1
2	29.04.2024	SITE INFO/ FLOOR PLAN CONCEPT V1

P: 03 312 2502 A: 178 Williams St, Kaiapoi	W: www.rwdesign.nz E: designteam@rwdesign.nz	
PROJECT NAME: PROPOSED NEW DEVELOPMENT		
FOR SATISFY FOOD RESCUE		
ADDRESS: COURTENAY DRIVE, KAIAPOI		
LEGAL DESCRIPTION: INSERT LEGAL DESCRIPTION		
PROJECT #21075		
DESIGN: MB	PRELIMINARY SET NOT FOR CONSTRUCTION	
DRAWN: KT		
CHECKED: -		
<div>SHEET NAME</div> LOCATION PLAN		
SCALE: 1:200 AT A2		
SK-01 <small>SHEET 2 of 4</small>		

[illegible]



GENERAL NOTES: GROUND FLOOR

Floor Perimeter (Over Foundation)	91,1154.00mm
Office Wing Area over Framing	46.08m²
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Storage Wing Area over Framing	200.00m²
Storage Wing Area over Foundation	200.00m²
Total Floor Area over Framing	254.41m²
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RW DESIGN

P: 03 312 2502
A: 178 Williams St, Kaiapoi

W: www.rwdesign.nz
E: designteam@rwdesign.nz

PROJECT NAME:
PROPOSED NEW DEVELOPMENT

FOR
SATISFY FOOD RESCUE

ADDRESS:
COURTENAY DRIVE, KAIAPOI

LEGAL DESCRIPTION:
INSERT LEGAL DESCRIPTION

PROJECT #21075

DESIGN: MB	PRELIMINARY SET NOT FOR CONSTRUCTION
DRAWN: KT	
CHECKED: -	

SHEET NAME
FLOOR PLAN

SCALE: 1:50 AT A2

SK-03
SHEET 4 of 4

Para Kore ki Te Waipounamu

Report for Canterbury Waste Joint Committee 2024

Funding Period: June 2023 to July 2024



Ngā mihi o te wā. Ko Miriama Buchanan tōku ikoa, ko ahau te Kaiārahi ki Te Waipounamu. I have served as the kaiārahi delivering our Oranga Taiao programme in the Canterbury region as part of our three year Te Waipounamu project to establish presence of Para Kore. As a project, this ends in February 2025.

The purpose of this report is to outline the mahi I have undertaken in the Canterbury region over the 2023/2024 year, with highlights on some engagements. We thank you for your financial contribution and value the support to reach more whānau and rūpū. The full funding was utilised to support (my) delivery hours.

PARA KORE



Ko Kāi Tahu, Kāti Māmoe, Waitaha,
Rapuwai kā iwi

The Focus

- Deliver five te ao Māori wānanga (workshops) to build zero waste knowledge and capability by the end of the June 2024
- Work towards a 50% reduction in waste generated
- To register (sign-up) five rūpū by the end of the project - this will involve registration of rūpū to the Para Kore Oranga Taiao programme
- Collect two stories of change from rūpū by the end of the project. Stories of change describe the success and positive change achieved by a rūpū due to their involvement with the Para Kore Oranga Taiao programme

Achievements & Learnings

We are pleased to have over-achieved on the delivery of wānanga for this particular funding, with 33 in total. The five rūpū to sign up was also achieved, along with the two stories of change. The waste diversion percentage is still an area Miriama is working on within the region.

Miriama had an overall focus to engage with each of the councils within the Canterbury region. She did achieve this though found she didn't have the capacity to engage as fully as she would like with each of them. Therefore, further support and engagement was provided where there was more interest. Events were popular in the rural areas so these were opportune spaces for Miriama to promote the work of Para Kore and raise awareness.

Being aware of events like this and attending would be a definite recommendation for others, which not only supports awareness raising for the community, but collaboration with aligning groups and organisations.

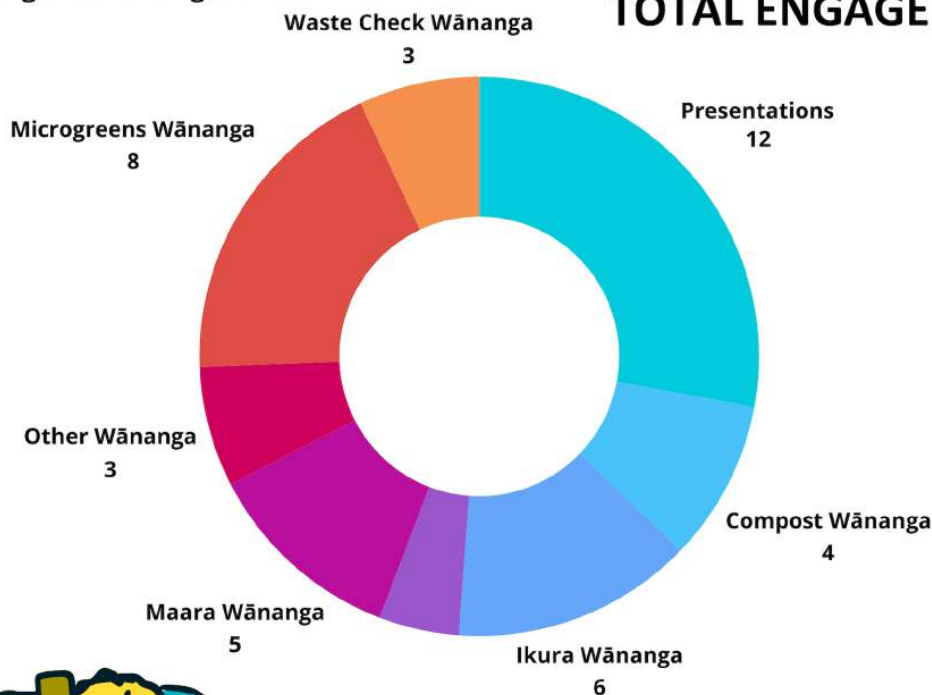
What did we achieve?

FIVE TOTAL RŌPŪ SIGNED UP DURING THIS PERIOD



- Te Whare Tiaki
- Halswell Learning Tree
- Climate Action Campus Ōtautahi
- Te Kōhanga Reo o Te Horomako o Te Huruheru
- Te Kōhanga Reo o Rangiora

TOTAL ENGAGEMENTS



33%

collective waste diverted
from landfill for those rōpū
signed up to Para Kore

Waimate Matariki Market



At the Waimate District Council Matariki Market event, Miriama embraced the opportunity to engage and set up a wānanga stall, which was an event in collaboration with Waihao Rūnaka. This event was attended by approximately 500 people across the course of the day, mostly community members but some visitors as well. Many people stopped to engage and talk about Para Kore and the work of zero waste including retired members of the community, mums, whānau and iwi members.

Three workshops were delivered across the day including ikura, microgreens and composting. The kope wānanga wasn't delivered due to a lack of young families in attendance but some information and awareness was shared with those that enquired. The overall feedback from the day was that the audience was proud to see a Māori entity sharing on this important mahi. There were also members of the community who were grateful for the reusable period product resources and the knowledge around growing food from seed and how to transplant these at home.

Timaru District Council



During the month of June 2024, a composting and ikura workshop was delivered at the Timaru Eco Centre in collaboration with the enviro team of Timaru District Council. The composting workshop was attended by members of the wider Timaru community and friends of the Centre. It was great to have local worm farming champions and composting gurus in the room to share their experiences, strengths and advice with newbies in the crowd and made the workshop thoroughly enjoyable for all.

In February 2024, a microgreens and ikura wānanga were also delivered with the community at Te Aitarakihi Centre. It was great to see and hear the interest from those present and circular seed systems, as well as future wānanga on offer.

Waimakariri District Council



Miriama was invited to set up a stall at a community event in the Waimakariri District Council region, in collaboration with North Canterbury Food Forum and Eco Educate. The event was held on Saturday the 20th April 2024 at the Rangiora Baptist Church, and there was a great turnout from interested community members.

The two wānanga Miriama shared throughout the day, covered information on composting as well as microgreens. Those who participated, were very happy to be able to make their own microgreens tray and learn more about this nutrient dense food that can be grown so easily at home.

Aratupu Preschool



This was the first waste check for Aratupu preschool as part of their journey with Para Kore. It was a few months in the making due to schedule conflicts and staff unwellness, so it was great to finally get together. We measured one days worth of waste, it excluded the operational waste from the bathroom/changing room which would have included kope and disposable gloves. Those attending the workshop was the full team including the ringawera, Katie. The sorting itself took only a short time but the discussion was rich and eye opening for the staff. There are lots of goals and ideas of what the staff want to do and so we decided to start small with soft plastics, food waste, paper towels and paper.

Long term goals they have include: moving the over twos out of disposable nappies and into reusables, reviewing the current system of kai provided by KidsCan and potentially writing to them to ask for changes and getting a worm farm and maara kai established. Soon it will be the right tim to get the maara and worm farm underway but the first steps systems will need to be implemented and in motion before proceeding with this. It was really refreshing to hear from the staff about their thoughts around sustainability. Every single kaimahi was contributing and discussing different elements of this important kaupapa which showed me they are all committed to change. Koia kei a koutou Aratupu Preschool kaimahi.

Riverlution Eco Hub



In February 2024 a wānanga was delivered at the Richmond Eco Hub and attended by regular visitors to the Hub, their Repair Cafe members and residents of the Ōtautahi community. Participants discussed the challenges they face with their day to day living and the high waste that comes from being busy and on the go. One participant in particular questioned if there was any knowledge about whether there are any plans to develop infrastructure that processes/burns our waste like what is being done in Europe, as they see this as a great alternative to landfilling. Responses to this were shaped around sharing what we are already doing here in Aotearoa and that these practices in principle, are not sustainable or supportive of the responsibility we have to care for our whenua and Atua whānau. Highlighted in the workshop was the difference between the Para Kore waste hierarchy and how this differs to others out there, and that we see recycling to be similar to landfilling. Participants agreed that recycling was not the best long term solution. We also discussed plastic repurposing here in Aotearoa and next steps, what's one thing that they will take action on straight away.

KŌRERO MAI

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Toni Kereama (Tumu Here)
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www.cookbrothers.co.nz

Canterbury Joint Waste Committee

Aims/objectives of the Sustainable Carpenter programme

The Sustainable Carpenter programme is a dedicated resource provided by Cook Brothers whose sole role is to divert construction materials from landfill, and to repurpose these into items for community groups in need. In September 2023, Cook Brothers were privileged to be the recipient of funding from the CJWC to grow the Sustainable Carpenter programme with a focus on adding an educational element to highlight the importance of reuse, repurposing and repair of materials within the community, while still continuing to provide value and support to community groups.

At time of application, the Sustainable Carpenter programme targeted diverting 2-4 Tonnes of construction waste via these efforts.

Grant spending to date

To date, \$6,240 has been spent on tools, equipment, storage & consumables to enable the programme to be delivered. The balance we expect will be spent over the remainder of 2024 as our Sustainable Carpenter workshop space continues to be refined & set up.

With the initial cost outlay supporting the setup of the workshop and facilitating these group activities, it is intended that the Sustainable Carpenter programme will be self-sufficient and able to be run for years to come.

Salary costs for our Team to deliver this programme are 100% solely covered by Cook Brothers Construction as an overhead.

Completion date

The intent for the project is to be ongoing as a reflection of Cook Brothers commitment to our community and to tackling the construction waste crisis; as such we don't see it having a completion date.

We intend to continue to spread the community involvement around the wider Canterbury region.

Challenges & Obstacles encountered

At a small scale, specific to the Sustainable Carpenter programme we have faced issues trying to fit this into the school schedule and timing. We overcame this hurdle by ensuring sufficient notice and planning was included up front - we have now been able to lock in additional schools to deliver more hands on carpentry workshops from July – December.

On a wider scale, while the Sustainable Carpenter programme achieved its aims and objectives, it underscored that our efforts are just a small part of the broader challenge of changing perceptions



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and practices around waste. Despite creating fantastic community projects to reuse and repurpose construction waste, and providing a platform to educate, inform and inspire, the programmes success has heavily dependant on individual initiative – if we stop, the programme stops. This highlights the need for broader industry and societal changes. A centralized system offering accessible resources such as skills, training, materials, space and equipment is essential to truly embed the principles of repair, reuse and repurposing into everyday life.

Learnings & Wins

We believe the Sustainable Carpenter programme has been a success, and shows with continued commitment it will continue to grow from strength to strength as we look to change the narrative around how waste is viewed, while simultaneously giving back to the community.

The aims and objectives of the Sustainable Carpenter programme have been exceeded, with multiple additional benefits being realised :

- **Waste reduction** – 4.7 tonnes of construction waste diverted from landfill and repurposed into new items to support community groups; with a new goal set to increase this to 10 tonnes by the end of 2024.
- **Community group engagement** - 20+ community groups engaged with and supported; sharing the message that waste is only wasted when you chuck it; and that it can be a very valuable resource when applying the lens of reuse, repair and repurpose.
- **Innovation** – fostering the importance of thinking outside the box and being innovative to solve problems. The Sustainable Carpenter programme highlighted that waste by products can provide solutions to meet the needs of the community.
- **Education** - Sharing knowledge, skills & experience; empowering the community to then take these new skills and knowledge and apply it to their own lives.
- **Collaboration & partnership** - nobody operates in isolation to the community they operate within; by collaborating and working together greater outcomes, do not need to be mutually exclusive.
- Proof that commercial entities can partner with community groups for good.

As part of the Sustainable Carpenter programme, the following projects have been completed in the last 6 months – utilising 100% repurposed and recycled materials diverted from our construction sites :

- Tempelton Primary School - New double-sided basketball backboard and hoops
- 7x Lilliput Libraries for distribution around Christchurch Schools
 - Doubled as a learning & teaching opportunity for our apprentice Team, they were tasked with collecting their own materials, planning, designing & building a lilliput library. Educational opportunity for the carpenters of tomorrow to maximise the reuse and repurpose of material in future builds.
 - These will be painted and distributed to 7x schools around Christchurch to act as a community resource as a shared book library.
- New Beginnings Kindergarten – misc. work & repair around the grounds using reused materials incl. construction of new shelving, cupboards, planter boxes, play equipment.
- Carpentry hut for local play centre – creating a space for the students to play and express themselves

- St Margaret's Play Center 'Hygiene station' – designed by the students, this provides a space for the students to learn to separate food waste for chickens and worm farm, collect leftover water to water the plants, and provide a space where they can tidy themselves up.
- Pumanawa Early childcare centre - play equipment for new centre
- Templeton School - Carpentry workshop
 - Hands on workshop and lesson around reuse, repurpose and recycling. Included building toolboxes & birdhouses out of material diverted from construction sites; the students learnt a practical approach to reuse, repair and repurposing of materials, as well as how to use tools such as drills, hammer, screws etc.
- Materials diverted and shared to Menz Shed – a community group focused around bringing people together to share skills, provide friendship & companionship and the opportunity to work on practical individual or wider community based projects.
- Materials diverted and shared to Creative Junk – a Christchurch based charity who collect and offer materials to the public for creative projects. One stop shop for everything from building materials, to early learning material, to props to craft resources.
- Burnham Primary School – new bench seats for play area
- He Waka Tapu hangi basket table – a Kaupapa Maori organisation that uses tikanga Maori to meet the needs of local whanau.
- Cancer Society - Play equipment for Canterbury Cancer Centre
- Avon-Otakaro Brooker Reserve red zone - Seating/picnic area out of diverted / recycled timber & donation of materials to create sensory/acoustic garden
- Hororata Primary School – providing support to the students who have designed a discovery path; including construction of bench seats, archway entrance reflecting the diversity of the students.

We are currently working through details and projects with the following schools, with the intention for a carpentry workshop (or similar project) to be delivered to the following schools by the end of 2024 :

- Burnham school
- Darfield Primary School
- West Melton School
- Ararira Springs Primary School
- Springston Primary School
- Te Rohutu Whio Primary school

We welcome the opportunity for any other specific projects / community groups that our Sustainable Carpenters can support. Please contact Kristy Jones (Kristy.jones@cookbrothers.co.nz) for details.

The following is a small selection of photos of some of the projects completed by our Sustainable Carpenters this year :



Carpentry workshop held at Templeton School – the students learnt how to use drills and hammers and basic construction techniques as they built a tool box or a bird box out of recycled material

Check out this video for a recap of the day -

<https://youtu.be/pWxlRMi6d0>



Cook Brothers
CONSTRUCTION

www.cookbrothers.co.nz



Carpentry table play set for
Pumanawa Play Centre



New basketball hoops for
Templeton School



Play equipment including giant tetris
for Cancer Society

Cook Brothers
CONSTRUCTION

www.cookbrothers.co.nz



New play hut and equipment for
New Beginnings kindergarten



Cook Brothers
CONSTRUCTION

www.cookbrothers.co.nz

Designed by the students at St Margaret's Play Centre – a 'hygiene station' was constructed to enable the students to learn to separate food waste for their worm farm and chickens, collect left water to water the plants and a space to clean up their selves.



New bench seats for Burnham
Primary School

Cook Brothers
CONSTRUCTION

www.cookbrothers.co.nz

2 of the 7 Lilliput libraries built by our apprentice team. These will be placed outside different schools within the city and painted by students.

The libraries will be community resources where books can be shared.

This was a great opportunity for our apprentices to learn the skill of planning and using recycled material.



We continue to partner with community groups to pass on excess construction materials where it is then utilized in community workshops and projects including Menz Shed, Creative Junk and Build Week.





7. Recommended Projects for 2024 to 2025 Waste Minimisation Grant Funding

Reference Te Tohutoro: 24/1201987
Responsible Officer(s) Te Pou Matua: Eilidh Hilson Regional Waste Projects Facilitator
Accountable ELT Member Pouwhakarae: Brent Smith, Acting General Manager City Infrastructure

1. Purpose and Origin of the Report Te Pūtake Pūrongo

- 1.1 The purpose of this report is for the Canterbury Waste Joint Committee to consider the recommendations for grant allocations from the regional waste minimisation fund for 2024/25.
- 1.2 The report is staff generated.

2. Officer Recommendations Ngā Tūtohu

That the Canterbury Waste Joint Committee:

- 1. Receives the information in the Recommended Projects for 2024 to 2025 Waste Minimisation Grant Funding Report.
- 2. Considers the funding applications and approves grants from the regional waste minimisation fund for 2024/25 as outlined in the following schedule:

Applicant	Project Name or Description	Recommendation
Ao Tawhiti Unlimited Discovery – Climate Action Campus	Climate Action Campus Trash 2 Treasure	\$5,000
Naylor Love Canterbury Project 1	Repurposing redundant truck curtains	\$10,000
Naylor Love Canterbury Project 2	Subcontractor waste awareness sessions	\$3,000
Halswell Menzshed Trust	Timber Diversion	\$5,000
Digital Future Aotearoa	Laptop Repair Workshops	\$20,000
All Heart NZ Charitable Trust	Developing corporate and construction resource recovery system	\$25,000
Waste-Ed with Kate Ltd	Waste Free Period Programme	\$30,000
Without Waste Ltd	Rewashable service ware systems establishment	\$14,000

- 3. Notes that the decision in this report is assessed as low significance based on the Christchurch City Council’s Significance and Engagement Policy.

3. Executive Summary Te Whakarāpopoto Matua

- 3.1 The Staff Group assessed 15 applications for funding, against the agreed criteria. Each application is attached, as well as a staff generated summary of the projects.
- 3.2 The evaluation matrix provides the rationale for each recommendation. The matrix from the last funding round for FY 2023-24 is also included for comparison.

4. Background/Context Te Horoaki

- 4.1 As per the constituting agreement of the Committee, each year, proposals for regional waste minimisation projects are considered. Of the total \$112,000, the Canterbury Regional Council (ECan) contributes 25%. The remaining 75% is split between the nine member Territorial Authorities, on a pro-rata by population basis.
- 4.2 The contestable fund is made available for waste minimisation projects or initiatives with regional application. Details are set out on the webpage ccc.govt.nz/culture-and-community/community-funding/waste-minimisation-in-canterbury-grant.
- 4.3 In 2024, advertising assets and marketing plan were used to promote the fund. This was presented to the CWJC in the 8 April 2024 committee meeting.

5. Considerations Ngā Whai Whakaaro

- 5.1 For the financial year 2024/25, the total funding is recommended for allocation across 8 of the 15 projects, as shown in *Table 1*.
- 5.2 A staff generated summary of the applications is attached as **Attachment A**. Each individual application is also attached.
- 5.3 The evaluation matrix is attached as **Attachment B**. For reference, the 2023-24 evaluation matrix is also attached in a second tab in the spreadsheet.

Table 1; All applications received, and recommended funding 2024-25.

Applicant	Project Name or Description	Amount Requested	Recommended Funding*
Richmond Community Garden Trust (RCGT)	Riverlution – Precious Plastics and Repair Café activity	\$ 37,504.00	\$ -
Ao Tawhiti Unlimited Discovery - Climate Action Campus	Climate Action Campus Trash 2 Treasure	\$ 8,220.00	\$ 5,000.00
Naylor Love Canterbury Project 1	Repurposing redundant truck curtains	\$ 12,375.00	\$ 10,000.00
Naylor Love Canterbury Project 2	Subcontractor waste awareness sessions.	\$ 4,950.00	\$ 3,000.00
Project Lyttelton Incorporated	Project Lyttelton Waste Reduction Programmes	\$ 23,400.00	\$ -
Halswell Menzshed Trust	Timber Diversion	\$ 11,613.00	\$ 5,000.00
Digital Future Aotearoa	Laptop Repair Workshops	\$ 20,000.00	\$ 20,000.00
All Heart NZ Charitable Trust	Developing corporate and construction resource recovery system.	\$ 50,000.00	\$ 25,000.00
Sustained Fun Limited	Establishment of World Sustainable Toy Day 2024	\$ 8,100.00	\$ -
Waste-Ed with Kate Ltd	Waste Free Period Programme	\$ 59,095.74	\$ 30,000.00
Without Waste Ltd.	Rewashable service ware systems establishment	\$ 27,038.00	\$ 14,000.00
Ecotech Services Limited	Feasibility study of onshore processing of lithium chemistry-based batteries.	\$ 1,200.00	\$ -
Kapa Limited	Loan Cup System	\$ 21,223.00	\$ -
CiRCLR Limited	CiRCLR software for connecting waste to users and providing lifecycle analysis	\$ 37,000.00	\$ -
WALKlightly	Textile Recycling	\$ 13,800.00	\$ -
Total		\$ 335,518.74	\$ 112,000.00

*Staff recommendations, as per the evaluation matrix (Attachment A)

6. Risks and Mitigations Ngā Mōrearea me ngā Whakamātautau



































6.1 Legal Considerations Ngā Hiraunga ā-Ture

6.1.1 There is no legal context, issue, or implication relevant to this decision.

7. Next Steps Ngā Mahinga ā-muri

7.1 Staff will contact all applicants to inform of the outcome of the meeting.

Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A  	CWJC Funding Recommendations - Evaluation Matrix 2024	24/1227885	143
B  	2024 CWJC Fund Applications Summary	24/1227886	159
C  	Riverlution Precious Plastic Project CWJC Fund 2024	24/1201988	188
D  	Ao Tawhiti Unlimited Discovery - Climate Action Campus Application 2024	24/1201989	257
E  	Naylor Love Canterbury Project 1 (Truck Curtains) - Application 2024	24/1201990	265
F  	Naylor Love Canterbury Project 2 (Sustainability Sessions) Application 2024	24/1201992	275
G  	Project Lyttelton Application 2024	24/1201993	300
H  	Halswell Menz Shed Application 2024	24/1201994	317
I  	Digital Future Aotearoa Application 2024	24/1201995	333
J  	All Heart NZ Application 2024	24/1201996	345
K  	Sustained Fun Application 2024	24/1201999	358
L  	Waste-Ed with Kate Ltd Application 2024	24/1202000	383
M  	Without Waste Ltd Application 2024	24/1202001	406
N  	Ecotech Services Limited Application 2024	24/1202002	417
O  	Kapa Limited Application 2024	24/1202003	421
P  	Circlr Limited Application 2024	24/1202004	434
Q  	WalkLIGHTLY Application 2024	24/1227786	446

In addition to the attached documents, the following background information is available:

Document Name – Location / File Link
Not applicable

Signatories Ngā Kaiwaitohu

Author	Eilidh Hilson - Regional Waste Projects Facilitator
Approved By	Alec McNeil - Manager Resource Recovery Lynette Ellis - Head of Transport & Waste Management



2024-25

Not recommended
for funding

ORGANISATION	PROJECT NAME and Description
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Richmond Community Garden Trust (RCGT)	Riverlution
Ao Tawhiti Unlimited Discovery - Climate Action Campus	Climate Action Campus Trash 2 Treasure
Naylor Love Canterbury Project 1	Repurposing redundant truck curtains
Naylor Love Canterbury Project 2	Subcontractor waste awareness sessions.
Project Lyttelton Incorporated	Project Lyttelton Waste Reduction Programmes
Halswell Menzshed Trust	Timber Diversion
Digital Future Aotearoa	Laptop Repair Workshops



All Heart NZ Charitable Trust	Developing corporate and construction resource recovery system.
Sustained Fun Limited	Establishment of World Sustainable Toy Day 2024
Waste-Ed with Kate Ltd	Waste Free Period Programme
Without Waste Ltd.	Rewashable serviceware systems establishment
Ecotech Services Limited	Feasibility study of onshore processing of lithium chemistry based batteries.
Kapa Limited	Loan Cup System
CiRCLR Limited	CiRCLR software for connecting waste to users and providing lifecycle analysis
WALKLightly	Textile Recycling

Recommended
*Contact details in applications retracted – request from CWJC administrator.
Consolidated Feedback- Staff committee
<p>The project is commended for; thoroughness of the application; the research conducted into supply versus demand for product and similar projects through the <i>Precious Plastic</i> movement, addressing demand for recycling of small & hard to recycle plastics; the track record of RCGT and Riverlution in delivering projects, and the proactive approach to collaboration and delivering education across multiple difference stakeholders. The value of sharing the model with other Eco Hubs in Canterbury is also acknowledged, providing regional strength and consistency. The rationale for declining funding, is due to the fund being oversubscribed, projects addressing higher waste volumes and/or prevention of use of waste product, across the wider region, are currently being prioritised, and scoring more highly.</p>
<p>The rationale for recommending a 2024/5 grant is to provide required assistance in the start up of a project redistributing large volumes of frequently landfilled bulk construction cut offs and excess offware. This programme encourages the wider construction and demolition industry to seek solutions outside of landfill. Communication with Menzsheds, and a wide variety of groups that can reuse offcuts (a predator trap construction group used as one example), is ongoing. The Climate Action Campus are bringing media attention to the waste generated at building sites, and overcome the H&S issues with onsite collection, by providing a centralised location. Staff recommend a contribution of \$5,000 to house items.</p>
<p>The rationale for recommending a 2024/5 grant to industry is; where a project is innovative, provides a solution to replace use of large volumes of single use plastic and supports local business (which NL confirmed is intended to be "Eco Sew" north of Rangiora) it scores highly against the objectives of the fund. Replacement of a single use product is an activity at the higher end of the waste hierarchy, than recycling. The applicant confirmed that regional expansion is intended if the project proves successful, after completing the carbon assessment. This would involve promoting the use of reusable covers to wider industry outside of their own operations, as well as encouraging replacement of other single use plastics. Staff noted that Auckland Council have also provided funding for this activity. NL confirmed that a carbon assessment was not conducted as part of this North Island trial. \$10,000 is recommended for funding, to be used towards the objectives, including seeking local business to create the covers, and have Canterbury based staff working on and promoting the project.</p>
<p>Rationale for recommending a 2024/5 grant; As construction and demolition (C and D) is the largest source of waste to landfill in NZ (outside of soil), changing the practices in this industry is an effective way to reduce the need to rehouse redundant items, provide options for excesses, and initiate competitors to do the same. Naylor Love (NL) confirmed that presentations can be recorded and shared, and they can make contact with 'All Heart' re. the All Heart networking/sustainability sessions (which address a difference niche). NL have noted that they already collaborate with the Sustainable Business Council and the Sustainable Business Network, to promote circular economies within the construction industry. They have also noted that through their Environmental Managers across the country, successful projects are generally replicated. Staff recommend a \$3000 grant, and request that the sponsoring for catering is sought elsewhere.</p>
<p>The project is commended for the well established track record of Project Lyttelton, in proactively addressing multiple waste issues in their locality, delivering benefits to the community and visitors in doing so. Re. creation of video to be shared with wider Canterbury, the project manager confirmed content will demonstrate their activities. The rationale for declining a 2024/5 grant, is the predominately localised nature of the project. Given the limited funds, projects addressing higher volumes, and/or waste stream that are not currently being addressed, and/or spanning further across the region, are scoring more highly.</p>
<p>Rationale for recommending a 2024/5 grant; The applicant confirmed participation in a quarterly Canterbury regional meeting, willingness to assist other sheds, and confirmation of the willingness to help the new Twizel shed set up if this is helpful. They additionally noted they can proactively work with 'The Shed' magazine and the regular Menzshed NZ newsletter (circulated to every Shed in NZ (120+)), to promote recycling activities. Thirty sheds are located in the Canterbury region, so there is potential to make a much greater impact within the CWJC catchment area. Where there are known projects coming up on which treated timber can be used, the shed noted they do actively look for suitable treated timber for recycling. The shed encourage councils to work with all Menzsheds to investigate ways/options of further increasing diversion/reuse. Councils recommend a grant of \$5000 for the activities.</p>
<p>The rationale for recommending a 2024/5 grant is to support the provision of a programme that immediately addresses a source of what is often quoted as the largest threat to resource recovery and waste infrastructure; fires from lithium batteries contained in devices. Digital Future confirmed that expansion into Northern Canterbury (last year Southern Canterbury was focused on) can occur, if funding, schools/community groups, and the actual laptops, are all available. Comprehensive reporting has been provided from last year, highlighting the volume of damaged devices from schools and tertiary providers, that councils need to ensure are kept out of our infrastructure. Staff recommend a grant of \$20,000 for phase 2; maintenance of the current activities across the region, plus one more workshop, looking into North Canterbury.</p>

<p>Rationale for recommending a 2024/5 grant, is that All Heart are still establishing (Hub opened May 2024) and funding from the CWJC would allow them to reach a much fuller potential than simple BAU running of the hub. The applicant has confirmed that funding would go directly towards activity to boost their regional profile, educate local and national corporates based in Canterbury on the benefits of their redistribution services, and establish contracts, to ensure the charitable and profitable aspects of the businesses are established for their first year in Canterbury. All Heart charge corporates a waste diversion fee, based on local landfill rates per tonne. Their industry partners typically landfill large volumes of bulky redundant corporate furniture, stationery, office fitout items and accommodation related wares such as bedding. Many are seeking solutions to meet waste reduction targets within their organisations, and rising waste levy costs. Staff recommend a grant of \$25,000 to support the regional promotion and establishment of partnerships and activities.</p>
<p>This project is commended for; the provision of education highlighting a waste stream not often addressed, a source of contamination in kerbside recycling (broken toys), and the importance of delivering this education, following best practice, to prevent further eco anxiety in youth. Staff were interested to hear about links with council run events at other times of year, such as Childrens Day and Kids Fest, across the region. The applicant has confirmed they are happy to develop events in line with Council campaigns and with libraries around the region. A grant is declined for this round due limited funding, and projects directly addressing waste streams at this stage, scoring more highly.</p>
<p>The rationale for recommending a 2024/5 grant, is that this project provides solutions to decades of of single use sanitary item use. It is delivered across the region, via a programme with highly positive feedback. The applicant has confirmed seeking to combine travel (where possible) with existing trips delivering other waste programmes in Canterbury, the use of a casual employee in Canterbury when required, and that they are in the process of seeking solutions for long term effectiveness of the programme. In response to this, some of the member councils are going to investigate the option of funding some of the workshops not able to be covered in the amount recommended, themselves, for their own districts. The applicant has undertaken evaluation on the long term effectiveness of another waste reduction programme. They have used this to inform continuous improvement of their other programmes, presented to members of the WasteMINZ national waste officers quarterly hui. It was also noted that many councils now are seeking reporting on long term effectiveness, of programmes being invested in. A grant of \$30,000 is recommended, to contribute to delivering these workshops across the region.</p>
<p>The rationale for recommending a 2024/5 grant; this project addresses reduction of single use packaging generated by events, and ongoing increasing concerns from events and resource recovery team and the general public around single use compostable packaging. Without Waste are experienced in event waste management and project delivery, and have ongoing support from multiple stakeholders, contractors and technical advisory groups across NZ. They are proactive in seeking advice on implementing reusable systems in a way to limit loss of stock, and utilise pre existing infrastructure (commercial kitchens) where possible. Staff have requested further scoping and information is carried out. A grant of \$14,000 is recommended.</p>
<p>This application is commended for researching the issue of the lack of onshore processing facilities for Lithium Ion batteries. The complete budget is for the time taken for staff to carry out a desk research work. The applicant confirmed that the findings would be made publicly available. The rationale for declining funding is that at the WasteMINZ conference, the industry flagged that this is already been researched in NZ at the moment. Risk from batteries and that lack of onshore processing options were discussed throughout the conference and the Minister for the Environment acknowledged that MfE are aware of the urgency in finding solutions to the management of Li batteries.</p>
<p>The project is commended for providing an appealing alternative system for to single use coffee cups. There is strong interest across NZ in systems to reduce use of single use beverage and food containers for events and in takeaway situations. The applicant noted that they stand out as being cashflow positive for participating vendors, setting them apart from other loan systems. The application is detailed and regionally applicable with over 100 cafes across the region, proposed as vendors. The rationale for declining a 2024/5 grant, is that staff have been in conversations with loan cup companies/service providers from NZ and internationally, and have had feedback that without whole system change, and very easy drop off receptacles on the customers route away from the point of purchase, these systems can struggle to overcome stock loss and customer disengagement over time, with customers building cups up at home, in vehicles and at work. However staff are willing to continue to speak with Kapa regarding this.</p>
<p>The application is commendable in that it provides a user friendly system for businesses to manage waste/emissions reduction, while demonstrating the benefits. The applicant noted that the marketplace is just one part of the wider framework. It addresses increasing requirements to improve the accuracy of emission measurements produced by business activities, and methods to mitigate this. The rationale for declining funding is that while there are many merits and much potential, this project does not score as highly against the criteria as the other projects. Staff have also seen that circular economy software can quickly become redundant. Staff are interested in this approach, but want to see further stakeholder involvement at this stage.</p>
<p>The project is commendable for addressing textile waste generated throughout different stages of its lifecycle especially in the garment industry. Many different stakeholders are involved. Supporting sustainable local business and industries, and providing training and showcasing alternatives to current systems that see high tonnages of excess textiles to landfill, meets the criteria of the fund. However, the rationale for declining a 2024/5 grant is that after receiving funding from the CWJC last year, to encompass wider Canterbury involvement, funding for the project this round is more suited to a localised funding source. CCC staff are willing to work with the applicant on clarifying their objectives further.</p>

Contribute towards one or more of: Waste avoidance; Reduction of waste to landfill; Recovery of resources. (40%)	Demonstrated ability to deliver the project and relevant track record of applicant. (25%)	Measurability of outcomes. (25%)	Details of self-funding and co-funding contributions for the proposed project. (10%)	Total ratings	Total Cost of Project
15	20	20	7	62	\$ 244,000.00
30	15	20	5	70	\$ 13,700.00
35	20	20	7	82	\$ 23,175.00
30	20	15	7	72	\$ 9,625.00
20	15	15	5	55	\$ 30,000.00
30	20	15	8	73	\$ 27,460.00
30	22	20	8	80	\$ 107,000.00

35	22	20	8	85	\$ 90,000.00
15	20	10	8	53	\$ 17,300.00
35	22	17	8	82	\$ 105,893.15
30	15	20	5	70	\$ 54,076.00
15	15	15	5	50	\$ 2,400.00
20	10	15	5	50	\$ 47,923.00
25	15	15	5	60	\$ 37,000.00
25	15	17	8	65	\$ 28,108.00
					\$ 837,660.15

Amount Requested by Applicant	Recommended by staff group
\$ 37,504.00	\$ -
8,220	\$ 5,000.00
\$ 12,375.00	\$ 10,000.00
\$ 4,950.00	\$ 3,000.00
\$ 23,400.00	\$ -
\$ 11,613.00	\$ 5,000.00
\$ 20,000.00	\$ 20,000.00

\$ 50,000.00	\$ 25,000.00
\$ 8,100.00	\$ -
\$ 59,095.74	\$ 30,000.00
\$ 27,038.00	\$ 14,000.00
\$ 1,200.00	\$ -
\$ 21,223.00	\$ -
\$ 37,000.00	\$ -
\$ 13,800.00	\$ -
\$ 335,518.74	\$ 112,000.00

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Canterbury Waste Joint Committee Waste Minimisation Fund

2024/25 Funding Round Applications



CWJC
Canterbury Waste Joint Committee

Criteria

- \$112,000 total available.
Individual grants will be limited to no more than \$50,000 (excluding internal staff time).
Only waste minimisation projects with broad regional application in Canterbury will be considered.
- Project needs to contribute towards one or more of: Waste avoidance; Reduction of waste to landfill; Recovery of resources. (40%)
Circular economy principles should be considered, where relevant (e.g. the whole lifecycle of a product is accounted for).
Projects fostering innovation are preferred.
- Demonstrated ability to deliver the project and relevant track record of applicant. (25%)
The applicant must be a legal entity.
- Measurability of outcomes. (25%)
- Details of self-funding and co-funding contributions for the proposed project. (10%)
Co-funding from other sources of a minimum of 40% of total project costs will be preferred.
Where possible projects should demonstrate cross-sector support/participation and/or ongoing viability.

2023/24 Recipients

Applicant	Project	Funding
Recycle a Device	Free laptop repair workshops with a focus on rural communities in Canterbury, rehoming laptops and e - devices to community support organisations for distribution to those in need. Working with the national 'right to repair' movement	\$20,000
Walk LIGHTLY	Connecting offcut and redundant stock textiles with the garment industry throughout Canterbury, and providing education around textile waste in NZ	\$10,000
Kaipoi Community Hub Trust	Contribution towards a Waste Minimisation Hub for North Canterbury to run food rescue activities and waste reduction workshops, repair cafes etc	\$20,000
Para Kore Marae Incorporated	Te Ao Māori zero waste education through targeted workshops to Marae, Kura and general community organisations, including setting up proven systems to drop waste volumes produced onsite	\$10,500
Lincoln University	Development of wood pulp chew/bite mark analysis cards to replace the plastic coreflute cards used in public spaces such as parks, throughout NZ, for pest monitoring programmes	\$15,000
Cook Brothers Construction	Free community workshops to teach carpentry and repair skills, and use of construction project offcuts to make furniture for community spaces and provide education around waste in the construction and demolition industry in NZ	\$10,000
All Heart NZ	Pickup and reuse of bulk quantities of difficult to rehome office/school and business type fitout items which are frequently landfilled due to lack of alternatives	\$26,500
TOTAL		\$112,000

2024 Applicants

ORGANISATION	PROJECT
Richmond Community Garden Trust	“Riverlution” – Repair Café and Plastic Lids Recycling
Ao Tawhiti Unlimited Discovery - Climate Action Campus	“Trash 2 Treasure” – Construction Waste Redistribution
Naylor Love Canterbury Project 1	Repurposing Redundant truck curtains as Timber Transport Covers
Naylor Love Project 2	Subcontractor Waste Awareness Sessions
Project Lyttelton Incorporated	Project Lyttelton Waste Reduction Programmes
Halswell Menzshed Trust	Timber Diversion
Digital Future Aotearoa	Laptop Repair Workshops and Redistribution
All Heart NZ Charitable Trust	Corporate and Construction Resource Recovery
Sustained Fun Limited	World Sustainable Toy Day 2024 Activities
Waste-Ed with Kate Ltd	Waste Free Period Programme for Schools
Without Waste Ltd.	Rewashable Serviceware systems establishment
EcoTech Services	Feasibility study of onshore pre - processing of lithium chemistry- based batteries
Kapa Limited	Loan Cup System
Circlr Limited	Use of Circlr software to demonstrate the benefits and feasibility of circular economy practices

1) Richmond Community Garden Trust

Riverlution Precious Plastics Project (RPP) and Repair Revolution Workshops

\$37,504 requested for:

1) Precious Plastics Project (RPP);

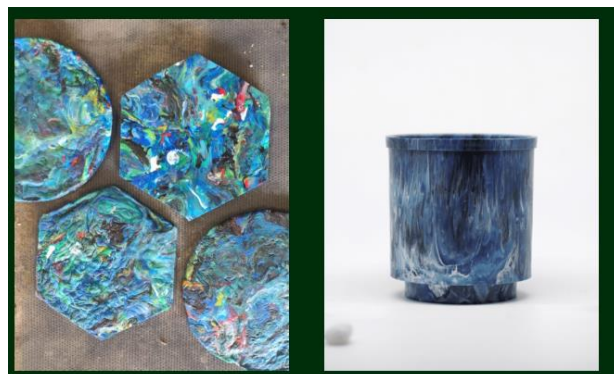
- A container for workshops to teach attendees how to recycle certain plastics into products safely, while providing education around plastic.
- The project recycles plastics that are currently non-recyclable due to their small size. More specifically - plastic types 2 and 5 smaller than a yogurt pottle, including pill bottles and smaller dip containers. The objective is to repurpose these into garden-themed products, such as plant pots and seedling trays.
- A student intern from the UC PACE programme was employed to prepare a business case for the project including; connecting with other precious plastic projects internationally, seeking advice on profitability, safety and equipment repair, market research competition, pricing and establishment of a system for washing drying and shredding.

2) "Repair Revolution" Workshops;

- A second container for the Repair Revolution furniture repair workshops and storage of tools for the RPP, and the tool library.
- The repair revolution workshops teach furniture and household item and clothing repairs, tool sharpening and care, and promote sustainability and resourcefulness.

Riverlution Hub collaborate with: Pare Kore, Envirohub, Climate Action Campus, 10 Churches, Shirley Village, Canterbury University Pace Internship, local schools, sustainable-minded individuals, product designers, engineers and volunteers, Christchurch City Council, Christchurch Airport, Avebury Shed, Hohepa, Canterbury Workers' Educational Association (WEA), Local Community, GreenLab and the Ministry for Social Development.

<https://richmondcommunitygarden.co.nz/project/riverlution-precious-plastic/>



1) Riverlution Precious Plastics and Repair Café Project

INCOME	STATUS	Description	Amount Requested	Amount Secured
Community Commitment	Secured		\$3,000	\$3,000
RCG INCOME	Ongoing		\$5,000	\$5,000
Sustainability & Innovation fundFund CCC	Secured	Sustainable workshops at Riverlution Hub	\$12,000	\$12 000
New Zealand Lottery round 2	Secured	Admin & Operational Cost	\$50,000	\$50 000
Cogs	Secured	Admin & Operational Cost	\$5,000	\$5,000
Rata	Secured	Admin & Operational Cost	\$20,000	\$20 000
Airport Fund	Secured	Riverlution Precious Plastic	\$5,000	1,000\$
Strengthening Communities	Applied	Admin & Operational Cost	\$50,000	\$0
Waste Minimization CCC	This application	Container and fit outs	\$30,000	\$0
Pledge me campaign		Will start a pledge me campaign in August for people to sponsor a pot	\$30,000	\$0
		Total	\$210,000	\$96 000
Year 1				
Cost Summary (see TABS for Detail)			TOTAL	CONTRIBUTION REQUEST
Containers		2 containers	\$19,654	\$19,654
Container fit out			\$12,357	\$12,356
Power requirements (3 phase)			\$7,375	\$0
Power			\$4,000	\$0
Equipment for Plastics program			\$76,435	\$0
Signage (see signage breakdown in signage tab)			\$4,494	\$4,494
Tool Lendery		Current assest tools from Riverlution Collective	\$9,619	0
Wages (Product making refer to Employee Cost Breakdown)			\$47,800	\$0
Drop Off Stations & Washing station (refer to New Drop Off Station Cost Breakdown tab)			\$2,948	\$0
Security			\$3,351	\$1,000
Admin			\$18,300	0
Operations Manager			\$40,000	0
Promotion, advertisement, workshops			25000	0
Monthly Repair Workshops				
Exterior fit out, Natural Paint for both containers, shade sail in between two workshops areas			15 000	0
TOTAL PROJECT COST YEAR 1			\$271,333	\$37,504



2) Ao Tawhiti Unlimited Discovery - Climate Action Campus

Climate Action Campus Trash 2 Treasure Project

\$8220 requested for:

- Storage/fencing to allow for distribution of clean Batts offcuts and construction waste (usually landfilled), to community groups, community gardens and members of the public.
- Pickups, advertising and staffing of the site, for 2 hours/week.
- Members of the public are not able to enter construction sites due to Health and Safety restrictions, and lack of on-site staff time.
- Green Dog Insulation, Naylor Love are working with the climate action campus to distribute excess items from their projects.
- 26 schools and educational organisations using this site, as well as the Te Aratai Tech Centre, which caters to 23 schools.



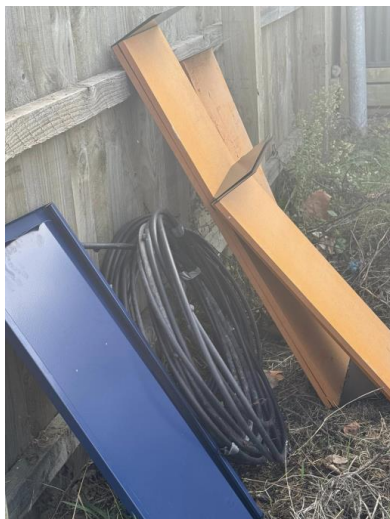
2) Climate Action Campus Trash 2 Treasure Project

The climate campus provides:

- A single garage for batts offcuts
- Large outside area for other construction waste
- Advertising and liaising with companies

Require funding for:

- Construction of fence (classroom block shown, being removed): Approx. \$700 labour and \$5,500 material.
- Pick up from sites - labour and trailer pickup= \$4,000 per annum
- 2 hours per week manning the pickup site from the public; \$3500 per annum.



3) Naylor Love Canterbury Project 1

Repurposing redundant truck curtains into timber pack covers. \$12, 375 requested;

Currently there is no recycling in NZ for PVC sheeting (which truck curtains are made from). Timber being transported requires covering, and this is usually single use plastic packaging.

Therefore, this project is seeking funding to buy and alter second hand curtains into covers, transport them, and track carbon emissions from a year long trial on one construction site, to see if it is beneficial to the wider industry.

This will involve comparing the CO2 emissions, and the costs of making the curtains and transportation them back to the site each time - versus – using single use plastic covers.

This has been carried out in the North Island.

naylorlove.co.nz/innovative-timber-covers-replace-single-use-plastic/
mitre10.co.nz/news/innovative-timber-pack-covers-could-replace-single-use-plastic



3) Naylor Love - Repurposing redundant truck curtains into timber pack covers

Truck curtain repurposing to timber covers						
Item description	Type	Quantity	Amount	Cost A	Cost B	Notes
4.8m cover alterations	No	5	\$ 595.00	\$ 2,975.00	\$ 2,975.00	Quote
6m cover alterations	No	5	\$ 620.00	\$ 3,100.00	\$ 3,100.00	Quote
Purchase of truck curtains	No	10	\$ 50.00	\$ 500.00	\$ 500.00	Estimate
Transport to manufacturer	No	2	\$ 75.00	\$ 150.00	\$ 150.00	Estimate
Transport to timber supplier	No	2	\$ 75.00	\$ 150.00	\$ 150.00	Estimate
Transport back to timber supplier for reuse	No	60	\$ 50.00	\$ 3,000.00	\$ -	Aim is to utilise reverse logistics for returning the covers to our merchant
Carbon assessment	Sum	1	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	Consultant fees
Project management	Hours	80	\$ 85.00	\$ 6,800.00	\$ -	Project management of the trial will be conducted free of charge by Naylor Love, this will include input in the carbon assessment
Publication of findings	Sum	1	\$ 500.00	\$ 500.00	\$ 500.00	Project management fees will be covered by the above, this sum is for professional printing of the case study for distribution to the wider community
				\$22,175.00	\$ 12,375.00	



4) Naylor Love Project 2

Subcontractor waste awareness sessions. \$4,950.00 requested.

- Funding is being sought to create content, advertise sessions, invite guest speakers, create resources, hold 4 sessions, gather feedback, publish results and compare the before and after waste quantities to measure effectiveness. The attendee goal is 200 people.
- The purpose of the sessions is to raise awareness and provide practical suggestions for solutions to reduce waste in the construction and demolition industries.
- Case studies will be shared. For example; Naylor Love are currently spending \$265.10/tonne to landfill site generated waste. GIB is less than half that cost, hardfill half that cost again. Untreated timber is \$50 per tonne. The sustainability manager has recently completed a case study on a current project that has a diversion rate of 46%. The project saved \$11,000.00 by recycling this 46%, rather than sending it to landfill and saved 10.38 tonnes of CO2 from entering the atmosphere.

Subcontractor waste awareness sessions

Item description	Type	Quantity	Amount	Cost A	Cost B	Notes
Venue hire	no	5	\$ 250.00	\$ 1,250.00	\$ 1,250.00	Shirley rugby club
Coffee cart	no	200	\$ 5.00	\$ 1,000.00	\$ 1,000.00	Based on 40 people attending per session
Breakfast buttie	no	200	\$ 10.00	\$ 2,000.00	\$ 2,000.00	Based on 40 people attending per session
Advertising	sum	1	\$ 200.00	\$ 200.00	\$ 200.00	Flyer
Takeaway resources	sum	1	\$ 500.00	\$ 500.00	\$ 500.00	Booklet
Session planning	hours	40	\$ 85.00	\$ 3,400.00	\$ -	Project management and planning of these sessions will be conducted free of charge by Naylor Love
Facilitating sessions	hours	15	\$ 85.00	\$ 1,275.00	\$ -	Facilitation of these session will be conducted free of charge by Naylor Love
				\$ 9,625.00	\$ 4,950.00	



5) Project Lyttelton Incorporated

Project Lyttelton Waste Reduction Programmes. \$23,400 requested

- Funding is requested for a co – ordinator to ensure the delivery of the following;
- Lyttel Sew & Sews;** Textile waste reduction through repaired and repurpose
- Te Puna Auaha;** Household item repair and up-cycling, for revenue and waste diversion
- Workshop Series** to teach repair and upcycling skills to the community
- Creation of an educational video to be shared with wider Canterbury

Item	Cost per hour or unit	Total units or hours	Sub total
Wages for coordinator	\$30	15 hours per week for 52 weeks of year (includes 4 week holiday leave)	\$23,400
Materials	TBC		\$2,000
Video and editing	TBC		\$4,000
Mileage to attend meetings in other Canterbury communities	TBC		\$600
			30,000



6) Halswell Menzshed Trust

Timber Diversion. \$11,613 requested.

- This project diverts timber from landfill by collecting pallets and timber packaging from kerbside and selected suppliers to:
- Strip down and use for projects. Reuse crates where possible
- Strip and sell suitable plywood from pallets for DIY projects, generating income to help serve in the community.
- Untreated products, so end of life they can be composted.
- Nails sold for scrap metal
- The Menzshed provide feedback to organisations who request information for waste minimisation targets. They also note significant benefits to men's health.
- Projected income from the sale of reused/ recycled timber is between \$15,000 and \$20,000pa. Based on the projected weight of what the Menzshed anticipates to divert, this equates to \$1 / kg of timber diverted.



Proposed timber recovery and recycling centre

	Description	Sum / Qty	Hours	Rate	Value
1	Supply only 6m x 4m kitset carport from Durasteel as quoted	4,678.26			\$4,678.26
2	Take delivery of kitset carport and assemble, including fixing roofing, spouting etc. 4 men 2 days		64	\$65.00	\$4,160.00
3	Supply only trailer jockey wheels for fixing to carport legs	4		\$347.82	\$1,391.28
4	Engineers fee for the design and supervision of piles and holding down anchors	1,150.00			\$1,150.00
5	Supply and fit turnbuckle - galv jaw and jaw	4.00		\$23.36	\$93.44
6	Cut and weld plates to carport legs, prime and paint, bolt jockey wheels in place. 1 man 4 hrs		4	\$65.00	\$260.00
7	Saw cut hotmix sealed yard, excavate pile footings, supply and install reinforcing and hold down anchors, supply and place concrete	8		\$72.00	\$576.00
8	Labour to carry out the above work. 4 men 1 day		32	\$65.00	\$2,080.00
9	6m shipping container as quoted - CSL	4,160.00			\$4,160.00
10	Strip out existing shelving and reposition in new container - 2 men 1 day		16	\$65.00	\$1,040.00
11	Supply of 50 x 50 x 6 steel angle for racking to hold plywood and timber. As quoted - United Steel. 18 lengths x \$78.32	1,409.82			\$1,409.82
12	Plywood shelving for racking above 1.3m	450.00			\$450.00
13	Build and install shelves / racking in the new container. 2 men 2 days		32	\$65.00	\$2,080.00
14	Consumables - welding rods, grinding wheels, screws, roof screws etc				\$350.00
	Sum				\$350.00

Sub total - excl GST: \$23,878.80

Plus GST \$3,581.82

TOTAL PROJECT COST \$27,460.62

Other funding:

Current application with Mainland Foundation - container incl GST \$4,784.00
Halswell Menzshed contribution - labour incl GST \$11,063.00

TOTAL VALUE OF THIS APPLICATION: \$11,613.62

7) Digital Future Aotearoa

“Recycle a Device (RAD)” Laptop Repair Workshops. \$20,000 requested

- Digital Future Aotearoa (DFA)’s Recycle A Device (RAD) programme diverts unwanted laptops from waste streams and teaches repair skills
- Refurbished devices are then gifted to rangatahi (young people) who need them for employment, education, connecting with services, and general participation in society, and would otherwise have difficulty accessing them.
- Goal is 500 laptops at an average of 2.3kg each = 1,150kg/year
- RAD have established clubs across the region; Mt Hutt College, Te Aratai College, Ashburton Library, Ashburton College, Christchurch Boys High School, Hillmorton High School, Hornby High School, Riccarton High School, Hagley Literacy Centre, TechMate and Ellesmere College Te Kāreti o Waihora continue to grow and thrive. Also have groups interested in training in late 2024 such as Shirley Boys High School.
- Ongoing funding is requested to ensure the sustainability of the programme in these areas as well as creating community impact sessions - ‘fix one, keep one’ training days for groups not placed to run a club, maintenance of these relationships and creation of new relationships with new stakeholders.



A new relationship between Ara | Te Pūkenga and the Recycle a Device (RAD) programme has resulted in more than 60 ākonga (students) taking home refurbished laptops to help with their studies.

7) “Recycle a Device (RAD)” Laptop Repair Workshops



Budget for Recycle A Device - CWJC

This budget outlines the estimated cost to run Recycle A Device in Canterbury for one year, including supporting established Clubs and 2 training workshops which can be for a retraining, a new school, or a 'Fix 1 Keep 1' community day.

Item	Cost
Workshop costs	
2 x One day training workshop for 20 ākonga who learn how to refurbish a device, with the aim that there'll be 20 laptops available to be gifted that day	\$7,000
Travel and accommodation for trainers (location dependent)	\$2,000
Parts for 40 laptops, equipment (i.e. screwdrivers, etc)	\$1,000
Freight, logistics, coordination	\$1,000
2 x catered lunch for approx 20 ākonga + trainers and staff	\$1,000
Sub-total	\$12,000
Ongoing costs	
Cost per device - ākonga lead refurbishment @\$190/laptop x 500 (includes management, admin, freight, parts, etc)	\$95,000
TOTAL	\$107,000



8) All Heart NZ Charitable Trust

Corporate and construction resource recovery. \$50,000.00 requested

Stage 1: All Heart NZ's team will target existing corporate clients in Canterbury and also seek out new opportunities:

- National Relationships Manager will focus on corporates in Canterbury eg: Europlan, Lincoln University and SF Projects.
- Sustainability Development Manager will focus on national clients who have a Christchurch base. For example, we recently carried out a waste audit for one of our Impact Partner, Waste Management's clients.
- National Rangatira All Heart Stores has visited regularly to support the establishment of the Store and will continue to do so, to also embed our community relationships.

Stage 2: Our Impact Partner Programme is a way for businesses to take their sustainability efforts to the next level. Our Impact Development Manager is a dedicated account manager for 65 Impact and Sustainability Partners we currently work with and will be able to develop these contacts further.

Stage 3: Follow up our corporate contacts and run a networking event in Christchurch, such as part of our Sustainable Lunch series – which are organised to educate, connect and empower key decision makers and to share ideas of best practice.



The community came together to celebrate the opening of All Heart NZ Christchurch Store.

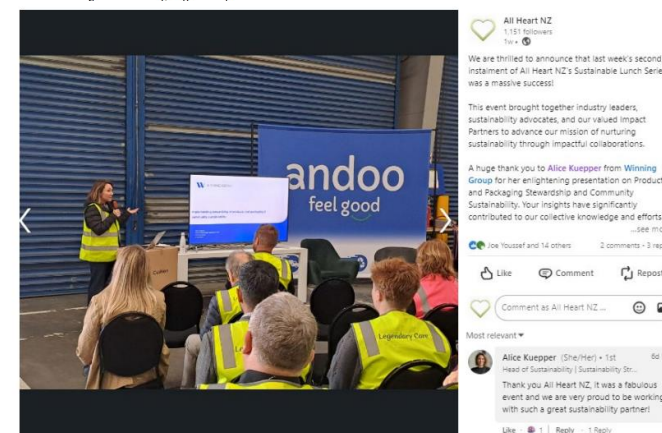


National and local staff beside the sign for the new Christchurch Resource recovery hub

2. An example of our Sustainable Lunch Series to educate, network and support corporates in their sustainability efforts to reduce the amount of commercial waste going to landfill:
Invitation for the event on 17th May 2024 hosted by The Winning Group at Ports of Auckland

8) All Heart NZ Corporate and construction resource recovery.

All Heart NZ Charitable Trust								
Canterbury AHNZ Corporate Sustainability Lunch Series 2024/25								
Budget 1 September 2024 to 31 March 2025								
	September	October	November	December	January	February	March	Total budget
Income								
Co-funding - National Lottery, Hoku Foundation	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$35,000.00
Potential Event Income and sponsorship	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Total Income	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$10,000.00	\$40,000.00
Less Cost of Sales								
Venue Hire and Catering	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00
Total Cost of Sales	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00
Gross Profit	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$6,000.00	\$36,000.00
Less Operating Expenses								
Advertising - website, social media, CRM	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$14,000.00
Salaries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Business Manager	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$1,000.00	\$4,000.00
Chief Encourager	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$1,000.00	\$4,000.00
Impact Development Manager	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$10,500.00
National Rangatira All Heart Stores	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,500.00	\$7,500.00
ReDirect Manager - National Relationships	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$10,500.00
Office Manager	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$1,000.00	\$4,000.00
ReThink Manager - Sustainability Development	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$10,500.00
Travel expenses - attend meetings and events	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$14,000.00
Utilities - office support, subscriptions eg Dropbox	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$7,000.00
Total Operating Expenses	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$14,000.00	\$86,000.00
Net Profit	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$8,000.00	-\$50,000.00



9) Sustained Fun Limited

World Sustainable Toy Day 2024 Promotion and Events. \$8100 requested

- The theme for World Sustainable Toy Day, 15th November 2024 is 'Connecting with Nature'.
- The messaging is backed by peer reviewed studies on effective methods of engaging in children in talking about climate change and the best ways to provide agency for environmental actions in ways that do not increase anxiety around climate change.
- Funding is requested to facilitate free events across Canterbury, including;
- Toy repair workshop, café
- Waste free water fights using "EcoSplat" reusable water balloons
- Nature treasure hunts
- Toy construction workshops from second hand materials
- Reporting back on recommendations

Event partners proposed are: Airforce Museum, Creative Junk, Envirokids, ReDiscover Hub Selwyn, South Canterbury Eco Centre Timaru, media and local retailers who show interest.



9) Sustained Fun Ltd - World Sustainable Toy Day 2024

	Sustained Fun	EnviroKids	Creative Junk	*tbc* Te Puna Auaha Lyttelton	International supporters	Canterbury Waste Minimisation Grant	Totals
Stage 1: Establishment							
Branding and design for 2024 campaign	\$ 600.00						\$ 600.00
Creating stand alone World Sustainable Toy Day website with 2024 campaign resources	\$ 2,000.00						\$ 2,000.00
Marketing and promotion: meeting with local organisations, online promotion, creating	\$ 1,000.00					\$ 1,000.00	\$ 2,000.00
Contacting more supporter organisations and connecting with existing	\$ 600.00					\$ 300.00	\$ 900.00
Printed banner and other promotional materials: Futureproof so can use every year						\$ 1,000.00	\$ -
Stage 2: Organisation							\$ -
organisations						\$ 600.00	\$ 600.00
events with international supporters (In kind support)	\$ 600.00				\$ 200.00		\$ 800.00
Organise and promote events including: Drop in at Envirokids		\$ 100.00				\$ 3,000.00	
Wastefree water fight with Airforce Museum							
Nature Kids treasure hunt with organisations around Canterbury	\$ 200.00						
Creative Junk waste diversion toy making workshop			\$ 100.00				
Toy repair café				\$ 100.00			
Press release	\$ 600.00						\$ 600.00
Stage 3: Live events							\$ -
Professional Photography	\$ 2,000.00						\$ 2,000.00
Personel (Including kind support)		\$ 400.00	\$ 400.00	\$ 200.00		\$ 1,000.00	\$ 2,000.00
Resources for workshops	\$ 100.00					\$ 200.00	\$ 300.00
Stage 4: Assesment and summary							\$ -
Gather feedback from participants						\$ 400.00	\$ 400.00
Write up summary report						\$ 600.00	\$ 600.00
Total	\$ 7,700.00	\$ 500.00	\$ 500.00	\$ 300.00	\$ 200.00	\$ 8,100.00	\$ 17,300.00
Percentage allocated	\$ 44.51	\$ 2.89	\$ 2.89	\$ 1.73	\$ 1.16	\$ 46.82	\$ 100.00
In kind							\$ 9,200.00



10) Waste-Ed with Kate Ltd

Waste Free Period Programme \$59,095.74 requested

- Funding is being sought for delivery of the “Waste Free Period Programme” to a minimum of 22 secondary schools in the Canterbury region.
- The programme educates students and staff about the reusable product options. In addition, schools can be provided with 100 reusable products, free for students who attend.
- The program also covers the correct disposal of single-use products and the repercussions of flushing them.
- Report provided back from Waste-ED with Kate:
 - The Waste Free Period Programme was very successful in 2022/23 for the Canterbury Joint Waste Committee’s combined areas. With over 2,900 students across 26 schools having received the in-person period education presentation, many young people have walked away with new knowledge, inspiration to minimise waste, and products to try.



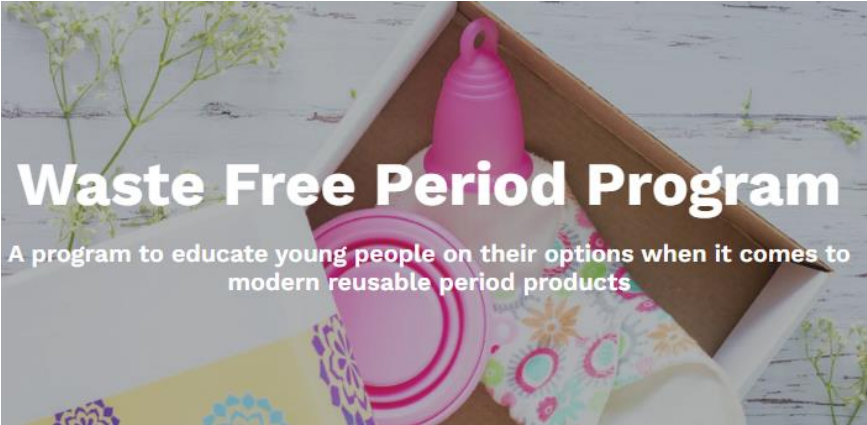
10) Waste Free Period Programme **WASTE-ED**
with Kate

DRAFT QUOTE

Canterbury Joint Waste

Date
31 May 2024
Quote Number
QU-0192
Reference
2024 School Sessions
GST Number
95-230-172
Waste-Ed With Kate Limited
18 B Earl Drive
Katikati 3129
NEW ZEALAND
Phone 027 22 11 242
Email
kate@wastedkate.co.nz

Description	Quantity	Unit Price	Discount	Amount NZD
Waste Free Period Workshop - 1 School	22.00	1,310.00		28,820.00
Includes: 6 x Hours admin: Including working with council, contacting schools to gauge interest, then booking and setting up the program and products per school / group (\$570) 1 x Facilitation of program per school / group (\$450) 1 x Provision of online resource module videos for extended learning (\$100) 2 x Hours Reporting/Following Up per school (\$190) = \$1310 admin / set up and facilitation				
Period Products for 22 schools. Per school: 50 reusable pads x \$7 - \$350 50 menstrual cups x \$9 - \$450 Cost: \$800 RRP value: \$2650+	22.00	2,650.00	69.80%	17,606.60
Travel Expenses recharged to council:	1.00	4,565.00		4,565.00
Where possible, we would combine the travel with an existing trip into the region. We currently have a trip confirmed to Christchurch in September 2024, and March 2025. There would still be cost as we would need additional rental cars etc. This quoted cost is a high level estimate due to the unpredictable nature of travel costs. If there are any additional funds saved through efficiency savings, this can be funnelled towards extra products for the students.				
Fastway Yellow Sticker - to south Island To courier the products down to the hotel ahead of our arrival. (2 schools per box)	11.00	36.00		396.00
Subtotal (includes a discount of 40,693.40)				51,387.60
TOTAL GST 15%				7,708.14
TOTAL NZD				59,095.74



11) Without Waste Ltd.

Reusable packaging systems for events. \$27,038.00 requested:

Funding is sought to assess the viability of implementing a reusable system for service ware at events, focusing on beginning with cups.

This removes significant amounts of packaging, and in turn reduces bin mis-use and contamination.

It addresses increasing demand from consumers and attendees, for councils to address waste generated by events

This involves:

- Trialling systems for distributing, collecting, washing, and reusing cups, then eventually wider service ware, depending on the size of an event and locality to pre-existing commercial kitchens
- Contacting wash sites across Christchurch with capacity, to create a directory of key infrastructure, including gaps
- Further working with Wash Trailer Aotearoa, and other supporting parties, to investigate this option
- Purchasing a fleet of cups, and testing the system
- Event manager feedback
- Promotion to potential sponsors
- The public trialling the system, and returning the items in the correct place
- Scoping labour requirements
- Measuring terms quantified as being diverted
- Provide option to support the Councils to deliver bylaw requirements, such as the Christchurch City Council Waste Management and Minimisation Bylaw 2023, to assist event organisers to reduce the most significant source of waste from events.



11) Without Waste Ltd Reusable packaging systems for events



DRAFT QUOTE

Without Waste

Date
31 May 2024

Expiry
14 Jun 2024

Quote Number
QU-0013

GST Number
126-509-049

Again Again Limited
C/- Bad Company
Workspace
155 Maunganui Road
Tauranga 3116
accounts@againagain.co

Description	Quantity	Unit Price	Amount NZD
Event cups, carton of 240, packaged in a closable, rigid plastic carton (7200 units at \$1.20 per unit)	30.00	288.00	8,640.00
Freight: Wellington >> urban Christchurch address, 2 pallets, tail lift delivery	2.00	240.00	480.00
Consultation support to develop and refine the business plan and local, Christchurch contracts with sanitisation infrastructure and logistics partners (sports clubs)	20.00	100.00	2,000.00
Subtotal			11,120.00
TOTAL GST 15%			1,668.00
TOTAL NZD			12,788.00



Presentation from “Fill Good” Project Manager Ali Kirkpatrick, Sustainability Trust Wellington, at the 2024 WasteMINZ conference.

12) EcoTech Services

Feasibility study of onshore processing lithium chemistry-based batteries. \$1200 requested

- Funding is requested for a desktop exercise to examine the feasibility of processing lithium (Li) chemistry-based batteries in New Zealand into what is referred to in the recycling trade as black mass.
- If this were feasible, it would allow for cheaper and safer international shipping, of the black mass.
- Local processing of Li batteries is of commercial benefit. Partial processing reduces the costs and resources relating to international shipping.
- These batteries are one of the most significant threats to collection and processing infrastructure due to their increasing prevalence in many products, and their instability when damaged, causing fires
- Li batteries are expensive to process. Less expensive processing is anticipated to increase volumes received through safe battery collection programmes.
- <https://www.ecotechservices.co.nz/resources/knowledge-base/batteries/>

Budget not provided



aquametals.com/recyclopedia/what-exactly-is-black-mass/

13) Kapa Limited

Loan Cup System. \$21,223 requested

- The Chunky Loan Cup System aims to combat the environmental impact of the use of single-use cups by providing an accessible and sustainable alternative.
- Vendors purchase loan cups from Chunky at \$10 each (incl GST). The system is cashflow positive for participating vendors, setting them apart from other loan systems.
- Customer purchases a loan cup for \$10 from any participating location
- Customer refills or exchanges for a clean cup at participating location (they can still refill a clean cup at any location)
- Customer returns the cup at any point back to a participating location for a refund (the customer may decide to keep the cup instead).
- A small minority of participating locations may receive more cups back than they give out. Chunky will take back excess cups and refund the location.

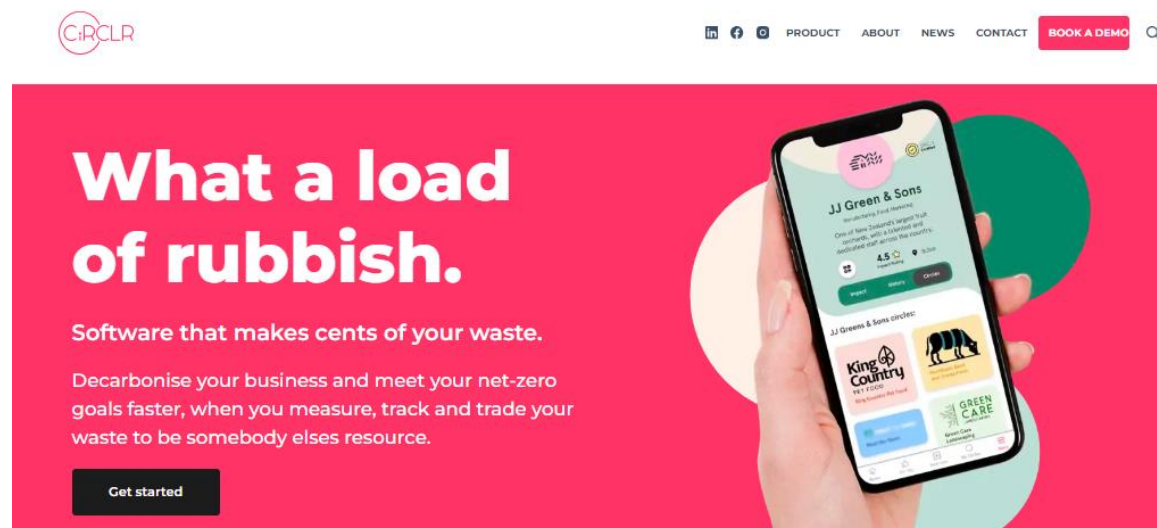


Canterbury Waste Minimisation Grant		
Budget workings		
All figures excluding GST		
First one hundred vendors to sign up get \$150 value starter pack free		
100 packs at \$150		15,000
Sofia Cinque wages costs for 3 Months (spread over 12 mth period)		
1 September 2024 to 31 August 2025		19,500
In kind contributions from Chunky		
Warehouse and office costs per annum	\$27,000	
Admin staff wages per annum	\$45,000	
Total	\$72,000	
10% of these overheads		7,200
Travel Costs		
Mileage to Canterbury	\$500	
Mileage back from Canterbury	\$500	
Accommodation in Canterbury (30 nights)	\$3,750	
Mileage in Canterbury (1 month - 50km a day average)	\$1,473	
Total travel costs		6,223
Total Project cost		47,923
Funding requested		21,223
*Note: Funding could be provided of \$15,000 to cover the 100 packs but because the work would be done remotely the uptake may not be at an acceptable level.		


14) CiRCLR Limited

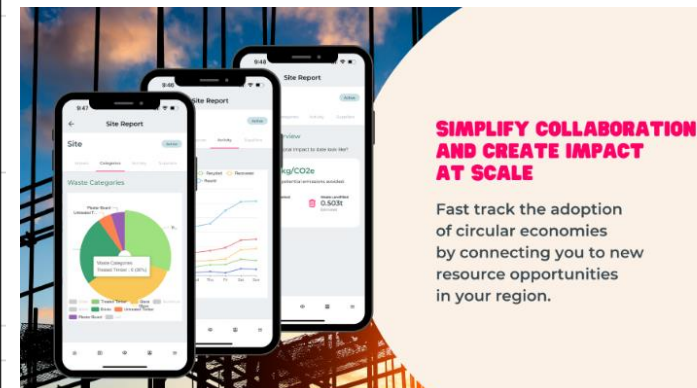
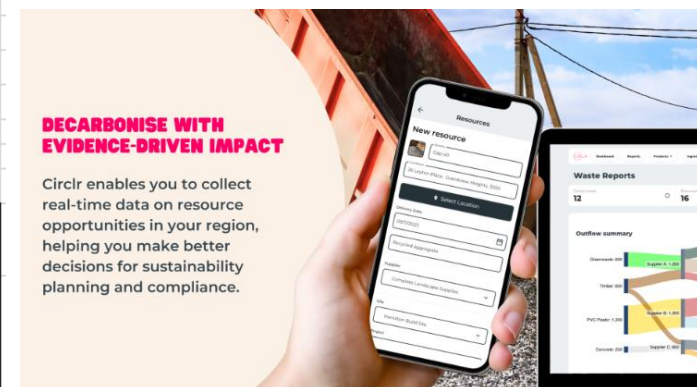
Software for connecting waste to users and providing lifecycle analysis. \$37,000 requested

- The project will focus on:
- Building Christchurch Case Studies: Develop case studies to demonstrate the benefits and feasibility of circular economy practices.
- Targeted Marketing and Surveys: Engage local businesses through targeted marketing and surveys to gather insights and build support for the platform.
- Education and Digital Enablement Workshops: Conduct workshops to educate businesses on the benefits of the circular economy and how to leverage digital tools for sustainability.
- Testing Regional Outcomes: Assess the platform's effectiveness in the Christchurch region and gather data on its impact.
- Identifying Feedstock Opportunities: Work with businesses to identify feedstock opportunities and map waste issues for future infrastructure investments.
- By supporting the soft launch of CiRCLR, this project will lay the groundwork for a sustainable and circular economy in Christchurch, benefiting both businesses and the community.



14) CiRCLR Limited - Software for connecting waste to users and providing lifecycle analysis.

		
Canterbury Waste Minimisation Grant Project Plan		
Activity	Activities planned	Estimated total cost (GST excl.)
Education and Training	Funds for organising training sessions, workshops, and support resources for businesses to ensure they understand how to use the CiRCLR platform effectively. This includes hiring trainers, developing training materials, and providing ongoing support to users.	\$12,000
Marketing and Awareness	Budget towards marketing and promotional activities, including advertising campaigns, digital marketing efforts, and promotional materials to raise awareness about CiRCLR among businesses, government agencies, and community groups in Christchurch.	\$8,000
Platform Development and localisation	Customisation and refinement of the CiRCLR platform to meet the specific needs and requirements of the Christchurch region. This includes software development, user interface improvements, and integration of features tailored to local businesses	\$12,000
Feedback and Data analysis		\$5,000
		\$37,000



13) WALKlightly ECO Textiles Project \$13,800 requested

Funding is sought to continue to connect Canterbury designers with textile waste generated by from the wider garment and uniform industries, provide educational resources, waste reduction workshops and spaces.

Quantities and types of of textiles diverted from landfill are tracked.

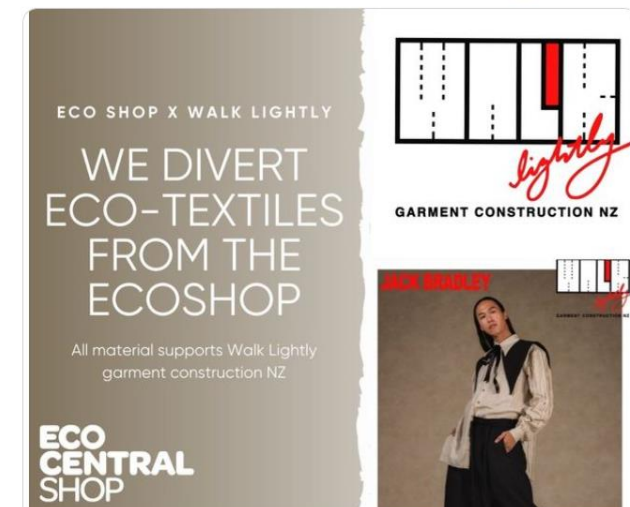
This includes;

- Marketing and communications associated with for the ECO Textiles projects
- Further work on a library (with an inventory) of sorted fabric offcuts and patterns
- Retail space and a visible workshop area

Stakeholders include Ara, fashion and uniform garment industries, second hand clothing, homeware businesses and charities, local garment designers, machinists and creatives.

WALK Lightly Ōtautahi Fashion Show
February 13 · 🌱

Thank you [The EcoShop](#) 🙌 you were the first business to show interest in our textile-waste-reduction project. Without your support we would not have made so much progress!! We now receive off-cuts and second hand fabrics from all around Canterbury and excited to work with Ara fashion school this year 🙌 #SlowFashion #wastereduction #zerowaste #support



WALK Lightly Ōtautahi Fashion Show
August 6, 2023 · 🌱

Another amazing NZ made clothing company EARTH SEA SKY based in Ōtautahi Chch, pioneering adventure garments! Thank you for contributing your quality off-cuts to our ECO textile project!!! So excited to see what is constructed out of them next 🌱🌱🌱



PROJECT COSTS	Description	Quantity	@	Item Cost	Total	CCC Request
Eftpos	quote from Total Pos solutions on Fitzgerald St, \$50 per month	12		\$50.00	\$600.00	
Power	Estimate for 12 months, electricity at the workshop	12		\$196.00		
consumables		52		\$3.00	\$156.00	
	Toilet paper and housekeeping					
fit out	window decal or instillation to create more privacy	1		\$800.00	\$800.00	
fit out	counter top for sales processing	1		\$500.00	\$500.00	
fit out	hanging racks	3		\$200.00	\$600.00	
rent	estimated for a 12 month period, central city with high foot traffic, industrial aesthetic, gallery style workshop.	1		\$20,000.00	\$20,000.00	
equipment	coverseam machine for professional finish on patchwork	1		\$3,000.00	\$3,000.00	
equipment	an iron and table	1		\$100.00	\$100.00	
Tutor	Tutor for art or fashion design textile evening classes. Zero-waste garment construction, weaving, knitting ect tutor led classes, x2 per month	24	@	\$150.00	3600	
TOTAL PROJECT COSTS (A)					\$28,108.00	\$0.00

WALK
lightly

This garment is helping reduce
textile waste in Canterbury

PROJECT INCOME		Quantity	@	Item Cost	Total
creative NZ funding	Funding this creative community allows us to utalize textiles going to waste, and propel emerging, sustainable, soft-textile fashion and art	1			
Waste Minialisation grant CCC	Funding this creative community allows us to utalize textiles going to waste, and propel emerging, sustainable, soft-textile fashion and art	1			
Felt funding	craft online platform sponsorship felt.co.nz	1		\$500.00	
Retail Clothing	Garments made by independant fashion designers and students in Otautahi, comission 20%	52	@	\$100.00	\$5,200.00
retail products	products made in-house at WALKlightly workshop from re-made from waste fabrics, collected, sorted, cleaned and manufactured onsite by Fashion graduates.	52		\$300.00	15600
fabric library	remaining fabric not assigned to students and designers will be available to the public to pick and choose, retail by weight, a fun process using large hanging scales (like buying ham at a deli). 1kg= \$5	52	@	\$50.00	2600
rentable space	one-off photo-shoots, rentable meeting place for designers and clients to do fittings	12	@	\$60.00	720
Evening classes	on zero-waste garment construction, weaving, knitting tutor led classes	24	@	\$150.00	3600
TOTAL CASH INCOME					
IN-KIND SUPPORT					\$27,720.00
TOTAL OTHER IN-KIND SUPPORT					\$27,720.00
AMOUNT REQUESTED FROM CCC					\$0.00
TOTAL PROJECT INCOME (B)					\$27,720.00
REVENUE (B) LESS COSTS (A) = (DEFICIT/SURPLUS)					-\$388.00

Your Form "Canterbury Waste Joint Committee grant" has received the following response:

Page 1 of 3 (1/3)

Q. Legal entity name

Richmond Community Garden Trust

Q. Trading name, if different

Riverlution

Q. New Zealand Business Number (NZBN), if relevant

Richmond Community Garden/ Riverlution Eco Hub

Q. Registered address

46a Vogel street, Richmond Christchurch

Q. Postal address, if different

R

Q. First name

Morgane

Q. Last name

Honore

Q. Position

Operations Manager

Q. Email

admin@richmondcommunitygarden.co.nz

Q. First name

Morgane

Q. Last name

Honore

Q. Total cost of project (\$)

244000

Q. Amount requested from committee (\$)

37504

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

Airport Funding \$1000 approved for electrical support

Sustainability & Innovation Fund \$12 000 for new drop off stations across the city

Page 2 of 3 (2/3)

Q. Start date.

01/07/2024

Q. End date.

07/05/2025

Q. Location:

All of Canterbury

Item 7

Attachment C

Q. Provide a high-level overview of the project and the key outcomes.

The Riverlution Precious Plastic (RPP) Project aims to create an innovative solution for plastic waste management and reduction in Christchurch by focusing on recycling plastics that are currently non-recyclable. Our objective is to repurpose plastic waste into usable garden-themed products like plant pots and seedling trays in the first year, thereby contributing to a circular economy.

The project involves utilizing two containers: one dedicated to the Riverlution Precious Plastic Project workshop, which will facilitate product creation and serve educational purposes, and a second container for the Repair Revolution workshop, storage collateral for RPP and tool library. This setup will enable us to assist the community with furniture repairs, tool sharpening, and tool care, further promoting sustainability and resourcefulness.

Key Outcomes

Waste Reduction: By diverting plastic waste from landfills, we will reduce the environmental impact and contribute to a cleaner Christchurch. In 2023 alone, we successfully diverted over 3 tonnes of plastic tops.

Product Creation: Transforming plastic waste into valuable garden products will provide practical benefits for community groups and generate funds for our organization's sustainability.

Community Engagement: We will involve local schools, businesses, and community groups in recycling efforts, fostering a collective commitment to waste reduction and sustainability.

Education and Awareness: Through our innovative bike-powered washing station and educational workshops, we aim to raise awareness and educate the community about recycling and the importance of sustainability.

Economic Growth: Transitioning our project into a social enterprise model will support sustainable economic growth and resilience.

Project Description

We propose to establish and operate a community-led plastic reprocessing enterprise at the Riverlution Eco Hub, based on the global open-source Precious Plastic model (preciousplastic.com). The environmental impact of making and disposing of plastic is severe, with significant quantities of recyclable plastic ending up in landfills, including most lids from drink and food packaging. Our community enterprise aims to recycle and reprocess these common plastics, offering an opportunity to educate the community about the waste hierarchy and circular economy. We will collaborate with other community centers to collect plastic tops and lids and work with schools to provide hands-on learning experiences about recycling and product creation. Groups from across the city and the South Island can use our workshop to make their products.

Currently, we have five drop-off stations across the city and plan to establish seven more with support from the Sustainability & Innovation Fund from Christchurch City Council (CCC). The lids from single-use plastic food and beverage packaging, which typically go to landfills in most NZ regions, are valuable resources. Our new recycling system allows us to collect any plastic #2 and #5 smaller than a yogurt pottle, which are ideal for small-scale recycling enterprises. This initiative provides STEM inspiration and engages curious minds to be solutions-focused on waste management.

While converting waste plastics into new products is inherently circular, it may not be emission-free. However, by engaging community groups, transitioning not-for-profits into a social enterprise model, and incorporating educational components, the overall outcomes far surpass the impact of these individual measures alone. Active involvement of community groups fosters a sense of ownership and collective responsibility toward plastic waste reduction. This collaboration generates social and environmental benefits that extend beyond a circular economy approach. Additionally, transitioning not-for-profits into a social enterprise model supports sustainable economic growth and resilience.

The educational aspect of our project is crucial in empowering individuals to make informed choices and adopt sustainable practices. By raising awareness and promoting behavior change, we aim to achieve significant and long-lasting positive impacts on our environment and society. Combining circularity, community engagement, social enterprise development, and education, our project unlocks outcomes that surpass the environmental benefits of waste conversion alone. Together, these efforts create a holistic and transformative approach to addressing the plastic waste challenge and fostering a more sustainable future.

Technologies and Assets

Our project utilizes various technologies and capital assets, incorporating Mātauranga Māori principles. These include:

Shredding Machine: Processes plastic waste into smaller pieces, making it easier to handle and prepare for further use.

Moulding Oven: A heat-controlled device used to melt and reshape plastic materials into new forms or products.

Bike Pedal Washing Station: A bicycle-powered washing station used to clean bottle tops, combining education and practical application.

Moulding Equipment: Allows us to shape melted plastic into specific forms or shapes.

These assets play a vital role in facilitating the recycling and repurposing of plastic waste. They help us connect Mātauranga Māori principles, such as Whakapapa, which understands that plastics come from natural resources. By utilizing these assets, we aim to extract value from plastic waste, reduce landfill waste, and contribute to a zero-waste, zero-carbon future in Aotearoa, New Zealand.

Collaboration and Cultural Competence

Our project benefits from a close working relationship with Para Kore, a Māori not-for-profit organization dedicated to zero waste. This collaboration ensures our kaupapa aligns with their vision and fosters collective action.

Additionally, our senior leadership team has completed a two-day intensive Te Tiriti workshop, enhancing their understanding of the Treaty of Waitangi and promoting cultural competence. They also maintain connections with the wider Network Waitangi Ōtatauhi, allowing for ongoing education, a supportive community, and collaboration on shared goals.

Future Plans

At Riverlution Eco Hub, our project aims to introduce innovative products and services that directly address the problem of plastic waste. Our approach involves creating an interactive and educational container where plastic that would typically end up in landfills can be transformed into useful items. In the first year, our primary focus will be on producing plant pots, with plans to expand into garden-themed products in subsequent years.

We are committed to making a lasting impact on our community and environment through our innovative and collaborative efforts in plastic waste management and recycling.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

In 2023, our project successfully diverted 2 tonnes of plastics from landfill. As we progress and become fully operational, we aim to significantly increase this amount by actively promoting our collection points and adding new ones across the city.

Through our workshops and educational initiatives, we have witnessed a growing awareness among individuals, resulting in increased engagement and participation. On average, people in Aotearoa discard 159 grams of plastic daily, contributing to a substantial level of waste generation. Our mission is to transform this pattern by striving to divert a total of 50 tonnes of plastic waste over two years. By raising awareness, promoting sustainable practices, and providing practical solutions, we aim to empower individuals to make conscious choices and actively contribute to reducing plastic waste. Together, we can make a significant impact on preserving our environment and fostering a more sustainable future.

Currently, plastic waste in Christchurch is predominantly disposed of in two ways: it either ends up in the landfill or contaminates recycling bins. Plastic lids pose a particular challenge as they are too small for the machinery used in the recycling process and cannot be sorted correctly. Consequently, these lids are discarded and cannot be recycled or reused.

Our project will contribute to the reduction of plastic waste through both environmental and economic benefits.

Environmental Benefits

Recycling and Repurposing: By establishing a community-led plastic reprocessing social enterprise, we focus on collecting and repurposing small items of plastic made of number 2 (PP) and number 5 (HDPE) plastics. This diverts

significant amounts of plastic waste from ending up in landfills or being imported for disposal, thereby reducing the environmental impact of plastic imports.

Waste Reduction: By transforming waste plastics into new products, we minimize the demand for new plastic production. This helps decrease the reliance on plastic imports and the associated environmental consequences, such as carbon emissions and resource depletion.

Economic Benefits:

Local Production: Our project aims to create a sustainable business model by producing garden-themed products from recycled plastic. By manufacturing these products locally, we reduce the need to import similar items made from virgin plastic, contributing to the reduction of plastic imports.

Economic Growth: The establishment of our social enterprise and the employment opportunities it creates contribute to local economic growth.

Q. Detail any other environmental and/or community benefits associated with this project.

Riverlution Precious Plastic supports circular solutions by embracing the principles of the Circular Economy. We focus on three key aspects: circular production, circular education, and creating systems for others to participate in the circular economy.

Circular production: Our project addresses the issue of plastic waste by collecting plastic, shredding it, and transforming it into durable and functional products like plant pots for plastic number 2 and seeding trays for plastic number 5. We contribute to closing the loop and extending the lifespan of materials.

Circular education: We recognize the importance of education in driving systemic change. We aim to educate and raise awareness about the benefits of circular solutions. We engage with the community, schools, businesses and organizations to promote sustainable practices, recycling, and the principles of the Circular Economy. By fostering a culture of understanding and active participation, we empower individuals to make informed choices and contribute to the circular economy.

Systems for others: Beyond our own production, we strive to create systems that enable others to participate in the circular economy. Our vision is to establish a network of separate workspaces across the region where recyclable plastic can be collected, processed, and transformed into new products. By providing the infrastructure, tools, and knowledge, we facilitate the expansion of circular initiatives and encourage collaboration among different stakeholders.

At the end of its life, our product undergoes a sustainable and circular process. If a product becomes damaged or reaches a point where it is no longer functional, it can be re-shredded and recycled. This allows the plastic material to be transformed into a new garden-themed product or repurposed into other products for projects around the city. The cradle-to-cradle approach ensures that the plastic waste is not discarded but rather reintegrated into the production cycle. By re-shredding the pots, we can create a continuous loop where the material can be used repeatedly, reducing the need for virgin plastic and minimizing waste.

Additionally, the plastic material used in our products has the potential for further processing options. It can be milled or heated and bent to produce a variety of other products, extending its life and functionality even further. By implementing this end-of-life strategy, we ensure that our products contribute to a more sustainable and resource-efficient system. The circular approach not only reduces waste but also promotes the longevity and reuse of materials, aligning with the principles of the Circular Economy.

Our project aims to uplift the behaviour of individuals and businesses towards more sustainable practices by embracing the waste hierarchy principles. We prioritize waste prevention as the topmost priority, followed by reuse, recycling, and recovery, with disposal being the least preferable option. Collaboration and community engagement play a vital role in driving this behaviour change. Various groups and organizations, such as the Climate Action Campus, Riverlution Eco Hub, Hohepa, 10 churches, Shiley Village, Canterbury University Pace internship, local schools, and residents, Canterbury University, sustainable-minded individuals, and product designers, come together to bring this project to life. This diverse range of stakeholders working together creates a powerful force for change, not only at a local level but also in addressing the global issue of plastic waste. A shared passion for recycling and making a positive impact in the community unites us all.

Through education efforts, including signage and the involvement of our dedicated team, we aim to raise awareness and understanding of the importance of sustainable waste management practices. The presence of an interactive station and an inclusive environment ensures practical involvement and accessibility for all, motivating people to actively participate and make a difference. Fostering a sense of collective responsibility, providing tools, and resources for sustainable behaviour, striving to shift mindset and practices of individuals/groups towards a more sustainable future.

Q. Outline the key project stages or milestones.

Research and Development:

Produce viable products using collected and shredded plastic within one year.

Consider size and economic factors during product development.

Container Blueprints:

Finalize blueprints for containers containing machinery, collection stations, and washing stations.

Ensure accessibility and efficiency in production.

Plant Pot Mould Design:

Develop an efficient design for the products.

Complete the design.

Community/Education:

Increase local community recycling in Christchurch and the South Island.

Divert a specific quantity of plastic types 2 and 5.

Utilize signage, awareness campaigns, and workshops for recycling goals.

Deliver an educational program focusing on Māori values and sustainability.

Infrastructure:

Expand facilities at Riverlution Eco Park.

Install and commission a fully equipped container system.

Increase processing capacity to a fully functional level.

Product Production:

Start producing a minimum of 20 plant products.

Contribute to the economic growth of not-for-profit organizations in greater Christchurch.

Plastic Diversion:

Divert a specific quantity of plastic lids (types 2 and 5) from landfills.

Achieve diversion targets.

Services Expansion:

Expand existing Precious Plastic interactive containers.

Divert plastic (types 2 and 5) and expand to other garden-related products after two years.

Continue the project to provide ongoing employment opportunities and sustain the initiative.

This outlined plan captures the project's progression from initial research and development to full-scale implementation, focusing on community engagement, product production, waste diversion, and sustainability.

Q. Outline the governance structure for the project.

The governance structure for the project is robust and built on a foundation of experience, community engagement, and dedicated leadership:

Richmond Community Garden Trust: The trust, established over a decade ago, comprises original board members who remain actively involved. Monthly meetings are held to make strategic decisions and ensure alignment with project objectives.

Operations Manager: A full-time operations manager oversees day-to-day project activities, ensuring smooth coordination and execution of tasks.

Volunteers: Four dedicated volunteers manage washing and shredding operations twice a week, contributing significantly to the project's progress.

Community Engagement: Various groups, including Hohepa and older community members, are actively involved in sorting plastic, fostering a collaborative approach to waste management.

Riverlution Eco Park: This encompasses the Richmond Community Garden, Riverlution Eco Hub, Fungi Farm, Riverlution Café, and Riverlution Precious Plastics. Its well-established infrastructure and committed team enable effective project delivery and sustainability initiatives.

Past Achievements: The Richmond Community Garden has a successful track record of exceeding strategic objectives, diverting significant food waste and expanding trapping projects across neighbourhoods.

Expertise and Collaborations: The operations manager brings valuable experience from the waste industry, supported by local engineers, the men's shed, and other organizations. This collaborative network provides essential knowledge for designing and constructing project components.

Community Support: A strong and supportive community with diverse expertise contributes to project success, demonstrating dedication and commitment to achieving goals.

Overall, the governance structure combines experienced leadership, community engagement, operational expertise, and collaborative partnerships, ensuring effective project management and successful outcomes.

Q. What are the measures of success?

Amount of Plastic Diverted

Quantitative Target: Track the total weight of plastic (in kilograms or tonnes) diverted from landfills.

Specific Types: Measure the specific quantities of plastic types 2 (PP) and 5 (HDPE) recycled.

Product Creation

Volume of Production: Track the number of garden-themed products (such as plant pots and seedling trays) produced.

Product Diversity

Monitor the range of different products created over time as the project expands.

Organizational and Community Involvement

Number of Participants: Count the number of organizations, groups, schools and businesses actively involved in the project.

Partnerships Formed: Document collaborations with local schools, community centres, and other stakeholders.

Job Creation:

Employment Opportunities: Measure the number of jobs created directly through the project, including full-time, part-time, and volunteer positions.

Skill Development: Track the training and skill development opportunities provided to employees and volunteers.

Community Engagement:

Workshops and Educational Programs: Track the number of workshops and educational programs conducted, as well as attendance and participation rates.

Community Outreach: Measure the reach and impact of awareness campaigns and community engagement activities.

Feedback and Impact:

Collect feedback from community members and participants to assess the impact of the project on local awareness and behaviours regarding plastic waste and sustainability.

Environmental Impact:

Reduction in Plastic Imports: Monitor the reduction in the need for importing plastic materials due to local recycling and production efforts.

Carbon Footprint: Measure the reduction in carbon emissions as a result of decreased plastic production and disposal.

Economic Benefits:

Revenue Generated: Track the revenue generated from the sale of recycled products.

Local Economic Impact: Measure the contribution of the project to local economic growth and sustainability. By setting these specific measures of success, the Riverlution Precious Plastic Project can effectively track its progress, demonstrate its impact, and continuously improve its operations to achieve its sustainability goals.

Q. Who are the key stakeholders?

- Richmond Community Garden Trust (RCG)
- Riverlution Eco Hub
- Christchurch City Council (CCC)
- Christchurch Airport,
- Avebury Shed, Hohepa Canterbury
- Climate Action Campus,
- Workers' Educational Association (WEA)
- Local Community
- Churches
- GreenLab
- Volunteers
- Local engineers

These stakeholders form a comprehensive network that supports various aspects of the Riverlution Precious Plastic Project, from strategic oversight and operational management to community engagement and technical support.

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

Richmond Community Garden Trust (RCG):

Experience: Established over 10 years ago, RCG has a successful track record of managing community projects that promote sustainability and waste minimization. Notable initiatives include the compost project, which diverted over 28,000kg of food waste, and the trapping project, which expanded across six neighborhoods.

Community Impact: RCG has consistently exceeded its strategic objectives, creating significant community impact through various projects.

Riverlution Eco Hub:

Experience: Operating for two years, the Eco Hub has established itself as a leader in waste minimization workshops and events. Projects like Riverlution Precious Plastic and Repair Riverlution have made notable contributions to reducing waste and promoting sustainability.

Infrastructure: The Eco Hub is equipped with the necessary facilities and equipment to support the recycling and repurposing of plastic waste.

Operations Manager:

Experience: The full-time operations manager has four years of experience in the waste industry, bringing valuable expertise in managing waste minimization projects and engaging with the community.

Project Management: The manager's experience ensures effective coordination, oversight, and delivery of the project's objectives.

Volunteer Network:

Experience: The project is supported by a dedicated network of volunteers and local organizations, providing hands-on experience in sorting, washing, and shredding plastic. This collaborative effort enhances the project's operational efficiency and community engagement.

Technical Support:

Experience: Partnerships with local engineers and technical experts ensure access to essential knowledge for designing and constructing the necessary machinery and workspace. This technical support is crucial for the project's success.

The Riverlution Precious Plastic Project is highly achievable due to its proven model, established infrastructure, strong community support, collaborative network, and the extensive experience of the project manager and legal entity in delivering waste minimization projects. The combination of these factors ensures that the project is well-positioned to succeed in reducing plastic waste and promoting a circular economy.

Q. What information will be tracked and evaluated at completion of the project?

Amount of Plastic Diverted:

Metric: Total weight (in kilograms or tonnes) of plastic types 2 and 5 collected and processed.

Purpose: To measure the environmental impact of the project in terms of waste reduction and landfill diversion.

Volume of Products Created:

Metric: Number and types of products (e.g., plant pots, seedling trays) manufactured from recycled plastic.

Purpose: To evaluate the effectiveness of the recycling process and the scalability of product creation.

Community and Educational Outreach:

Metric: Number of workshops conducted, educational programs delivered, and participants engaged.

Purpose: To assess the reach and impact of community education initiatives in promoting sustainable practices and recycling awareness.

Stakeholder and Volunteer Engagement:

Metric: Number of organizations, groups, businesses, and individual volunteers involved in the project.

Purpose: To gauge the level of community and stakeholder engagement and their contributions to the project's success.

Economic Impact:

Metric: Job creation data, including the number of full-time and part-time positions generated.

Purpose: To understand the project's contribution to local economic development and job opportunities.

Operational Metrics:

Metric: Efficiency and productivity data, such as the number of items produced per day and the capacity of the processing equipment.

Purpose: To evaluate the operational performance and identify areas for improvement.

Environmental Benefits:

Metric: Reduction in carbon emissions and resource depletion due to recycling and repurposing activities.

Purpose: To measure the broader environmental impact of the project and its contribution to sustainability goals.

Customer and Community Feedback:

Metric: Surveys and feedback forms from community members, workshop participants, and product users.

Purpose: To collect qualitative data on community satisfaction, perceived benefits, and suggestions for improvement.

Financial Performance:

Metric: Detailed financial records, including costs, revenue generated from product sales, and funding utilization.

Purpose: To ensure financial transparency and assess the project's economic viability and sustainability.

Infrastructure Development:

Metric: Progress on the installation and commissioning of the recycling and educational facilities, including the fit-out of containers and equipment setup.

Purpose: To track the completion of key infrastructure milestones and ensure readiness for operational activities. By systematically tracking and evaluating these key pieces of information, the project will be able to measure its success, identify areas for improvement, and demonstrate the tangible benefits of the Riverlution Precious Plastic Project in terms of waste minimization, community engagement, and sustainable development.

Q. What are the key project risks and how will they be reduced or mitigated?

Risk: Insufficient Plastic Collection

Description: Difficulty in collecting enough plastic waste to meet production and recycling goals.

Mitigation: Establish and promote additional collection points across the city.

Collaborate with businesses, schools, and community groups to increase collection efforts.

Launch awareness campaigns to encourage more community participation in plastic waste collection.

Risk: Equipment Malfunctions or Delays in Installation

Description: Potential delays or failures in the setup and operation of recycling machinery and infrastructure.

Mitigation: Procure high-quality, reliable machinery from reputable suppliers. Ensure thorough training for staff on equipment use and maintenance.

Develop a contingency plan for quick repairs or replacements in case of equipment failure.

Maintain an inventory of critical spare parts to minimize downtime.

Risk: Funding Shortfalls

Description: Insufficient funding to cover project costs and ensure sustainability.

Mitigation: Secure diverse funding sources, including grants, donations, and partnerships with local businesses.

Develop a detailed budget and regularly monitor expenses to avoid overspending.

Create a sustainable revenue model through product sales and community workshops.

Risk: Low Community Engagement

Description: Limited participation and support from the local community.

Mitigation: Organize regular community events and workshops to raise awareness and encourage involvement.

Utilize various communication channels (social media, newsletters, local media) to reach a wider audience.

Engage community leaders and influencers to promote the project and its benefits.

Risk: Regulatory and Compliance Issues

Description: Challenges in meeting regulatory requirements and obtaining necessary permits.

Mitigation: Conduct thorough research to ensure compliance with all relevant local, regional, and national regulations. Work closely with regulatory authorities to understand requirements and streamline approval processes. Regularly review and update project practices to maintain compliance.

Risk: Quality Control and Product Demand

Description: Inconsistent quality of recycled products or low market demand.

Mitigation: Implement stringent quality control measures throughout the production process.

Conduct market research to understand customer preferences and demand for recycled products.

Develop diverse product lines to cater to different market segments and needs.

Risk: Environmental and Safety Hazards

Description: Potential environmental or safety risks associated with the recycling process.

Mitigation: Adhere to best practices for environmental management and waste handling.

Conduct regular safety training sessions for staff and volunteers.

Implement robust safety protocols and emergency response plans.

Risk: Knowledge and Skill Gaps

Description: Lack of expertise and skills among project staff and volunteers.

Mitigation: Provide comprehensive training programs for all staff and volunteers.

Partner with local educational institutions and experts for skill development and knowledge sharing.

Foster a culture of continuous learning and improvement.

Risk: Project Management and Coordination

Description: Challenges in effectively managing and coordinating various aspects of the project.

Mitigation: Appoint an experienced project manager with a proven track record in waste minimization projects.

Develop a detailed project plan with clear milestones, timelines, and responsibilities.

Use project management tools and software to facilitate effective communication and coordination among team members. By identifying these key risks and implementing proactive mitigation strategies, the Riverlution Precious Plastic Project can navigate potential challenges and ensure successful project execution, delivering meaningful environmental and community benefits

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

Ensuring the health and safety of all participants is paramount for the success of the Riverlution Precious Plastic Project. Here's how we will implement and manage the requirements of the Health and Safety at Work Act 2015:

Health and Safety Policy Development

Develop a comprehensive Health and Safety Policy tailored to the specific needs of the project.
Ensure the policy is accessible and communicated to all staff, volunteers, and participants.

Risk Assessment and Management

Conduct thorough risk assessments for all project activities, including plastic collection, processing, and community engagement events. Identify potential hazards, assess the level of risk, and implement appropriate control measures. Regularly review and update risk assessments to address any new hazards or changes in project activities.

Training and Education

Provide mandatory health and safety training for all staff, volunteers, and participants before they commence any project activities. Conduct regular refresher training sessions to ensure ongoing compliance and awareness. Cover topics such as safe handling of machinery, proper use of personal protective equipment (PPE), emergency procedures, and first aid.

Personal Protective Equipment (PPE)

Ensure the availability and proper use of necessary PPE, such as gloves, safety glasses, masks, and hearing protection, depending on the activity.
Provide clear instructions on the correct use, maintenance, and storage of PPE.

Safe Work Procedures

Develop and document safe work procedures for all tasks and activities, particularly those involving machinery and equipment. Ensure that all procedures are followed and that any deviations are reported and addressed promptly.

Machinery and Equipment Safety

Ensure all machinery and equipment are regularly inspected, maintained, and serviced according to the manufacturer's guidelines. Implement lockout/tagout procedures to safely manage equipment maintenance and repairs. Provide training on the safe operation of machinery and equipment.

Emergency Preparedness and Response

Develop and communicate an emergency response plan, including procedures for fire, medical emergencies, chemical spills, and other potential incidents. Install and maintain appropriate emergency equipment, such as fire extinguishers, first aid kits, and emergency contact lists. Conduct regular emergency drills to ensure all participants are familiar with procedures.

Health Monitoring and Reporting

Implement a health monitoring program to identify any work-related health issues early.
Encourage open reporting of any health and safety concerns, incidents, or near misses.
Investigate all incidents thoroughly to identify root causes and implement corrective actions to prevent recurrence.

Consultation and Participation

Establish a health and safety committee with representatives from staff, volunteers, and participants to facilitate regular consultation and feedback on health and safety matters.
Encourage active participation and involvement in health and safety initiatives and decision-making.

Documentation and Record-Keeping

Maintain detailed records of all health and safety activities, including risk assessments, training sessions, equipment maintenance, incident reports, and health monitoring.
Ensure documentation is up-to-date and readily accessible for audits and reviews.

Continuous Improvement

Regularly review and evaluate health and safety performance to identify areas for improvement.
Stay informed about changes in health and safety legislation and best practices to ensure ongoing compliance and enhancement of health and safety standards.
By implementing these measures, the Riverlution Precious Plastic Project will effectively manage health and safety requirements, ensuring a safe environment for all participants and aligning with the Health and Safety at Work Act 2015.

Q. Will the project require any resource consent from the regional council or territorial authority?

The Riverlution Precious Plastic Project is situated on red zone land under a five-year lease agreement with CCC, designated as a transitional project. This status provides us with specific permissions and constraints:

Site Usage: Container Placement: We are permitted to have containers on-site, provided they blend harmoniously with the surrounding landscape.

Activity Compliance: The activities and use of the site align with our lease terms and transitional project status, thus not requiring additional land use consents.

Equipment and Emissions:

Plastic Processing: The types of plastic we will use do not emit harmful gases when melted below a specified temperature, ensuring that our operations remain within safe environmental standards.

Air Quality: Given these controlled conditions, our plastic processing activities will not necessitate further consent for emissions or air quality impact.

Regulatory Compliance: We will continually ensure that all activities comply with relevant environmental and safety regulations, maintaining thorough records and engaging with authorities as needed to address any changes in requirements.

Community and Stakeholder Engagement: We will engage with local community members and stakeholders to address any concerns, fostering transparency and support for the project. Given our five-year lease on red zone land and the specific operational parameters of the project, we are confident that additional resource consents are not required for container placement and plastic processing. Our compliance with environmental standards and proactive engagement with the community will further ensure the successful and sustainable implementation of the project.

Q. Is your activity an existing permitted activity?

Yes

Page 3 of 3 (3/3)

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

RPP is built upon the fundamental principles of the circular economy, which emphasizes sustainability, resource efficiency, and waste minimization throughout the entire lifecycle of a product. Our project incorporates the following circular economy principles:

Design for Longevity and Reusability

Product Development: We focus on creating durable, reusable products from recycled plastics. For example, our plant pots made from collected plastic waste are designed to be long-lasting and sturdy.

Mould Design: Efficient mould designs ensure that recycled plastic is used effectively to produce high-quality products.

Material Collection and Processing: Plastic Collection: We collect recyclable plastics, specifically types 2 (HDPE) and 5 (PP), from the community. These plastics are cleaned, sorted, and shredded for reuse.

Shredding and Reprocessing: The collected plastics are shredded into small pieces, making them easier to handle and process. These pieces are then melted and moulded into new products.

Circular Production: Local Manufacturing: By repurposing locally collected plastic waste into new products, we reduce the need for virgin plastic production and imports, thereby lowering our carbon footprint.

Efficient Use of Resources: All production processes are designed to minimize waste and maximize the utility of recycled materials.

Educational Outreach and Community Engagement: Workshops and Programs: We conduct educational programs to raise awareness about the benefits of the circular economy. These initiatives target local schools, community groups, and the wider public to promote sustainable practices.

Community Involvement: By engaging with the community, we foster a culture of recycling and sustainability, encouraging more people to participate in the circular economy.

End-of-Life Management: Product Recycling: At the end of their useful life, our products can be re-shredded and reprocessed into new items. This ensures that the materials remain within the production cycle and do not end up in landfills.

Continuous Loop: The cradle-to-cradle approach allows us to continuously reuse the same plastic materials, reducing waste and conserving resources.

Systems for Broader Participation

Infrastructure Development: We aim to create a network of collection and processing facilities across the region, enabling other communities and organizations to participate in the circular economy.

Support and Collaboration: By providing the necessary infrastructure, tools, and knowledge, we encourage collaboration and expansion of circular initiatives. The Riverlution Precious Plastic Project embodies the principles of the circular economy by addressing the entire lifecycle of plastic products—from collection and production to end-of-life recycling and community education. Our commitment to sustainability and resource efficiency ensures that plastic waste is continuously repurposed, reducing environmental impact and fostering a more sustainable future.

Q. How does the project foster innovation?

RPP fosters innovation through several key strategies and approaches:

Innovative Recycling Techniques

Community-led Plastic Reprocessing: By leveraging the globally recognized Precious Plastic model, we adopt open-source, low-cost recycling methods that are adaptable and scalable. This approach encourages creative solutions tailored to local needs.

Advanced Machinery: The use of shredders, extrusion machines, and moulding ovens enables efficient processing of plastic waste, turning it into valuable products. Our designs are continuously improved to enhance efficiency and output.

Product Development: New Product Lines: Starting with plant pots & seedling trays, we plan to expand our product range to include other garden-themed items. Each product is designed with both functionality and sustainability in mind, ensuring they are durable and recyclable at the end of their lifecycle.

Custom Mould Design: We create bespoke moulds that maximize material use and product durability, allowing for the production of unique and high-quality items from recycled plastics.

Educational and Community Engagement;

Interactive Workshops: Our hands-on workshops and educational programs teach community members about the circular economy and sustainable practices. By involving schools, community groups, and local businesses, we inspire innovative thinking about waste management and recycling.

Awareness Campaigns: Through targeted campaigns and events, we promote a culture of innovation in sustainability, encouraging individuals and organizations to adopt new practices and solutions for reducing plastic waste.

Collaborative Networks

Partnerships and Collaborations:

We work with a diverse range of stakeholders, including local councils, Ministry Social Development, educational institutions, and non-profits like Para Kore, Recreate and Hohepa. These collaborations bring together varied expertise and resources, fostering a collaborative environment for innovation.

Community Involvement:

By engaging local residents, schools, and businesses, we create a community-driven approach to plastic waste management. This collective effort stimulates innovative ideas and solutions from a grassroots level.

Circular Economy Systems

Infrastructure Development: We are establishing a network of collection and processing facilities that enable broader participation in the circular economy. This decentralized approach allows for localized innovation and adaptation.

Cradle-to-Cradle Approach: Our commitment to a cradle-to-cradle lifecycle for our products ensures that materials are continually reused and repurposed, reducing waste and promoting sustainability. This holistic view encourages innovative thinking about product design and lifecycle management.

Sustainability and Environmental Impact

Reducing Plastic Waste: By diverting significant amounts of plastic from landfills and transforming them into valuable products, we address environmental challenges innovatively. Our project demonstrates how waste can be a resource, inspiring similar initiatives.

Economic and Environmental Benefits: Our project not only contributes to environmental sustainability but also stimulates local economic growth through job creation and support for local businesses & organisations.

Q. Will the project contribute towards one or more of the following?

- ✓ Reduction: Lessening waste generation.
- ✓ Reuse: Further use of products in their existing form for their original or similar purpose.
- ✓ Recycling: Reprocessing waste materials to produce new products.
- ✓ Recovery: Extraction of materials or energy from waste for further use or processing, including but not limited to making materials into compost.
- ✓ Treatment: Processing waste to change its volume or character so it can be disposed of with no, or reduced adverse environmental impact.
- ✓ Disposal: Final disposal of waste on land set apart for the purpose.

Q. How will the project contribute towards one or more of the above?

RPP aligns with several key principles of waste management, particularly focusing on reduction, reuse, recycling, and recovery. Here's how the project contributes to each of these areas:

Reduction: Lessening Waste Generation

Awareness and Education: Through workshops, signage, and community outreach, we educate the community on the importance of reducing plastic waste at the source. This includes promoting practices like avoiding single-use plastics and opting for reusable alternatives.

Product Design: Our plant pots and other garden-themed products are designed to be durable and long-lasting, reducing the need for frequent replacements and thereby lessening overall waste generation.

Reuse: Further Use of Products in Their Existing Form

Community Engagement: We encourage the community to collect and reuse plastic lids and other plastic waste items. This not only prevents these items from becoming waste but also promotes a culture of reuse.

Repair and Maintenance: Our Repair Riverlution workshop provides tools and services for repairing and maintaining items, extending their life and reducing the need for new products.

Recycling: Reprocessing Waste Materials

Plastic Reprocessing: The core of our project involves collecting, shredding, and remoulding plastics #2 and #5 into new products. This direct recycling process transforms waste into valuable items, such as plant pots, thereby reducing the volume of waste sent to landfills.

Infrastructure: We are establishing collection points and processing facilities that support extensive recycling efforts across Christchurch.

Recovery: Extraction of Materials or Energy from Waste

Material Recovery: By shredding and reprocessing plastic waste, we extract valuable materials that can be reused in the production of new items. This process ensures that the inherent value of the plastic is not lost and is continuously cycled back into the economy.

Compost and Organic Waste: While our primary focus is on plastic, our broader initiatives at the Riverlution Eco Hub also include composting organic waste, converting it into nutrient-rich compost for use in the community garden.

Treatment: Processing Waste to Change Its Volume or Character

Safe Processing: The project ensures that plastics are processed in a way that minimizes environmental impact. For instance, we maintain controlled temperatures during melting to prevent the emission of harmful gases and work with less harmful plastics.

Innovative Techniques: Our use of shredders, extrusion machines, and moulding ovens changes the form and usability of plastic waste, making it suitable for creating new products.

Disposal: Final Disposal of Waste

Minimizing Landfill Use: By effectively reducing, reusing, recycling, and recovering plastic materials, we significantly decrease the amount of waste that ends up in landfills. Our ultimate goal is to create a zero-waste system where disposal is minimized to the greatest extent possible.

Proper Waste Management: For any residual waste that cannot be processed through our systems, we ensure proper disposal methods that comply with environmental regulations and minimize adverse impacts. The Riverlution Precious Plastic Project makes substantial contributions across multiple aspects of waste management, with a strong emphasis on reduction, reuse, recycling, and recovery. Through innovative processes, community engagement, and a commitment to sustainability, the project not only mitigates plastic waste but also fosters a culture of environmental stewardship and resource efficiency. This holistic approach ensures that we address waste management comprehensively, creating a sustainable and circular economy within our community.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

RPP is designed to significantly enhance resource efficiency while also tapping into commercial opportunities. Here's a detailed look at how the project achieves these goals:

Improving Resource Efficiency

Maximizing Material Use:

Recycling and Repurposing: By collecting and processing plastic waste, particularly types #2 (HDPE) and #5 (PP), we ensure that materials which would otherwise be discarded are transformed into valuable products. This maximizes the lifecycle of plastic materials and reduces the demand for new, virgin plastics.

Design Optimization: Our plant pots and other products are designed to use the minimum amount of plastic necessary while maintaining durability and functionality. This careful design approach ensures efficient use of resources.

Reducing Waste

Waste Minimization: By diverting plastics from landfill and recycling them into new products, we reduce overall waste generation. This not only conserves resources but also reduces environmental impact.

Education and Awareness: Through community workshops and educational programs, we promote sustainable practices that encourage waste reduction at the source. This fosters a culture of resource efficiency within the community.

Energy Efficiency

Efficient Processing: The machinery and processes we use are designed to be energy-efficient, ensuring that the environmental benefits of recycling are not offset by excessive energy consumption.

Renewable Energy Integration: Where possible, we aim to integrate renewable energy sources into our operations to further reduce our carbon footprint.

Capitalizing on Commercial Benefits

Product Development and Sales

Marketable Products: The recycled plant pots and other garden-themed products we create are not only environmentally friendly but also marketable. These products cater to the growing demand for sustainable goods and can be sold to generate revenue for the project.

Brand Positioning: Positioning our products as eco-friendly and sustainably made enhances their appeal, allowing us to potentially charge a premium price and attract a dedicated customer base.

Economic Opportunities:

Job Creation: The project creates employment opportunities in the areas of collection, processing, manufacturing, and education. This not only supports the local economy but also builds a skilled workforce knowledgeable in sustainable practices.

Support for Not-for-Profits: Profits from the sale of recycled products can be reinvested into the project and other community initiatives, supporting the broader mission of the Riverlution Eco Hub and related organizations.

Community and Business Engagement:

Collaborative Partnerships: By working with local businesses, schools, and community groups, we build a network of stakeholders who contribute to and benefit from the project. These partnerships can lead to sponsorships, grants, and other funding opportunities.

Corporate Social Responsibility (CSR): Businesses involved in the project can enhance their CSR profiles by demonstrating their commitment to sustainability and community engagement, potentially attracting more customers and investors.

Scalability and Replication:

Model for Expansion: The success of the project in Christchurch can serve as a model for other regions. By showcasing the feasibility and benefits of community-led recycling initiatives, we can attract interest and investment for expansion.

Licensing and Training: There is potential to license our processes and provide training to other communities and organizations, creating additional revenue streams and promoting widespread adoption of sustainable practices.

Q. Does the project reduce any hazardous substance or production of hazardous waste? Yes

Q. How does the project reduce any hazardous substance or production of hazardous waste?

Yes, the project contributes significantly to the reduction of hazardous substances and the production of hazardous waste. Here's how:

Reduced Production of Hazardous Waste: By recycling plastic waste, the project minimizes the production of hazardous waste that would otherwise be generated from the disposal of plastics in landfills. Plastics can release harmful chemicals and pollutants as they degrade, contributing to environmental contamination. The project's emphasis on diverting plastic lids and other recyclable plastics (#2 and #5) from landfills directly reduces the amount of hazardous waste generated from these materials.

Prevention of Environmental Contamination: Plastic waste, when not properly managed, can lead to environmental contamination. This includes leaching of chemicals into soil and water bodies, posing risks to ecosystems and human health. By recycling plastics, the project helps prevent such contamination. The project's focus on proper handling and processing of plastics ensures that hazardous substances, such as plasticizers and additives, are contained and not released into the environment.

Promotion of Safer Alternatives: By creating recycled products like plant pots from plastic waste, the project promotes the use of safer alternatives to virgin plastics. Recycled plastics, when properly processed, can be made into durable and functional items without the need for additional hazardous chemicals. Educating the community about the hazards of certain plastics and the benefits of recycling encourages the adoption of safer practices and materials.

Compliance with Environmental Regulations: The project operates within the framework of environmental regulations and waste management standards. By adhering to these regulations, the project ensures that hazardous substances are handled, stored, and processed in accordance with legal requirements, further minimizing risks to the environment and public health.

Educational Initiatives: The project's educational programs and workshops raise awareness about the environmental impacts of hazardous substances and waste. This increased awareness encourages individuals and businesses to adopt practices that reduce the use of hazardous materials and promote recycling and waste minimization.

Q. Does the project:

- ✓ Improve health and safety for waste collectors, personnel working at transfer stations or sorting facilities?
- ✓ Reduce illegal dumping or stockpiling of wastes?
- ✓ Remove or reduce a waste stream that may enter a waterbody?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

The cost-effectiveness of the Riverlution Precious Plastic Project can be evaluated based on several factors:

Initial Investment: The project requires an initial investment in infrastructure, machinery, operational costs, and human resources. This includes setting up the recycling containers, acquiring shredders, moulding equipment, and other necessary tools, as well as hiring personnel to manage the project's operations.

Operational Costs: Ongoing operational costs include maintenance of machinery, utilities, transportation for waste collection and product distribution, employee wages, and educational program expenses.

Revenue Generation: The project can generate revenue through the sale of recycled plastic products, such as plant pots, seedling trays, and other garden-themed items. Revenue may also be generated through partnerships, sponsorships, grants, and community support.

Cost per kg of Waste Diverted: To calculate the cost per kg of waste diverted from landfill, you would divide the total project costs (including initial investment and operational costs over a specific period) by the total amount of waste diverted from landfill during that same period. This calculation provides a measure of the project's cost-effectiveness in diverting waste from disposal sites.

Cost-Benefit Analysis: Conducting a cost-benefit analysis helps assess the overall economic viability of the project. It compares the costs incurred with the benefits gained, such as environmental impact reduction, social benefits, job creation, and community engagement.

Long-term Sustainability: Consideration of long-term sustainability is crucial in evaluating cost-effectiveness. This includes assessing the project's ability to maintain operations, generate ongoing revenue streams, adapt to market changes, and continue delivering positive environmental and social outcomes.

While I don't have specific financial data to provide the exact cost per kg of waste diverted from landfill for the Riverlution Precious Plastic Project, conducting a comprehensive financial analysis based on the factors mentioned above can help determine its cost-effectiveness and financial sustainability.

Q. Describe your ability to deliver the project and provide any relevant track record.

We have a strong track record of successfully delivering projects related to waste minimization and sustainability. Our team possesses extensive experience in managing similar initiatives, ensuring effective planning, implementation, and monitoring throughout the project lifecycle. We have a proven ability to collaborate with diverse stakeholders, leverage resources efficiently, and overcome challenges to achieve project goals.

Q. Provide any other supporting information, such as links to websites and social media.

1. [Riverlution Precious Plastic | Richmond Community Garden](#)
 2. Budget Riverlution Precious Plastic
 3. Riverlution Precious Plastic Story
 4. Eco Hub Community Collection Station Signage
 5. 2024 - Riverlution Precious Plastic Christchurch - Business-Plan
 6. G and A Agency Cost Estimate for Signage
 7. [Page couldn't load • Instagram](#)
 8. [A Big Bang for Plastic Recycling \(preciousplastic.com\)](#)
 9. [13.05.24 - Richmond Community Garden Trust – Morgane Honore – Operations Manager ... \(youtube.com\)](#)
 10. Letters of support:
- (a) Para Kore (b) Augustine Church (c) Kidney Society (d) Hōhepa Canterbury (e) Repair Revolution Ōtautahi (f) CCC Tony Moore (g) We Are Richmond

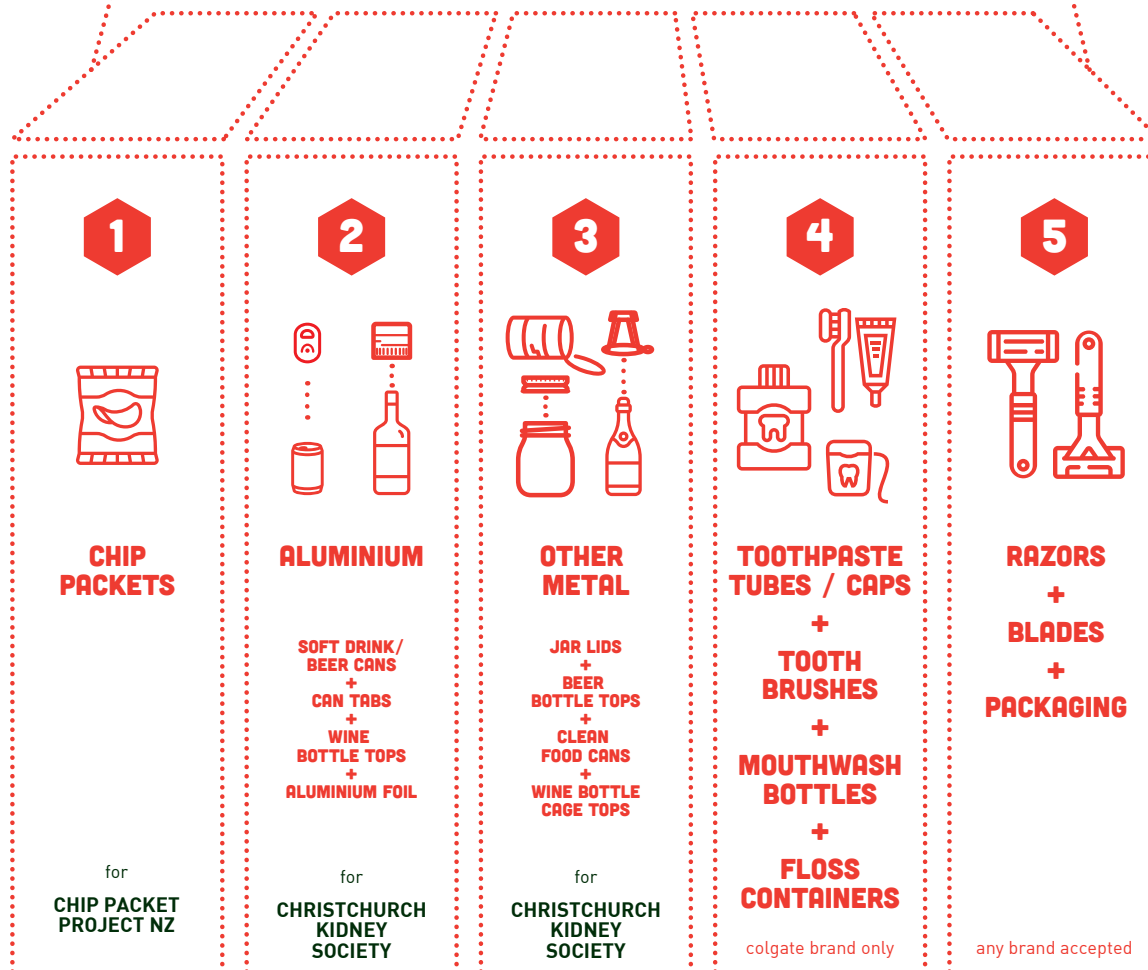


Item 7

Attachment C



COMMUNITY COLLECTION HUBS
are recycling stations that everyone can access to drop off items.
RIVERLUTION ECO HUB COLLECTION STATION
has five different streams:



THANK YOU FOR YOUR CONTRIBUTION

If you would like to know more about what happens to those streams or would like to be involved please get in touch with Morgane

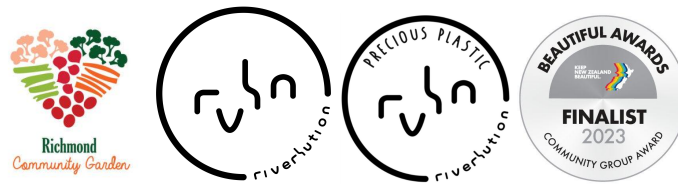


027 808 0693



admin
@richmondcommunitygarden.co.nz

RIVERLUTION ECOHUB IS LOCATED AT 46A VOGEL ST



Subject: Innovative Opportunity to Collaborate: Riverlution Precious Plastic Project

Our story: The story of Richmond Community Garden (RCG) is a testament to growth and community spirit. Born in the aftermath of the earthquakes, RCG flourished from a modest garden by Avebury House into a thriving force of volunteers and initiatives. Their dedication led them to partner with Land Information New Zealand (LINZ), securing leases for three acres of residential Red Zone land, further invigorated by the gift of a house on Vogel Street.

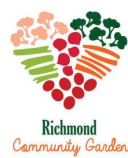
Introducing the heart of this transformation – the Riverlution Eco Hub, a cornerstone of the expansive Riverlution Eco Park. Within this dynamic ecosystem, you'll discover the Richmond Community Garden, Fungi Farm, Riverlution Café and the innovative Riverlution Precious Plastics initiative. Hosting over 150 sustainable workshops per year, like Repair Revolution, Rain Garden & Stormwater series, Composting, trapping, 3 garden bees per week and much more.

This three-acre expanse hosts an array of garden beds, food forests, and native plantings, harmoniously intertwined with sustainable features, a community recycling station, Ōtākaro Urban Trapping Project, and composting facilities.

At the core of the Riverlution Eco Park lies a space where collaboration, creativity, and sustainability thrive. It's a place where diverse organizations converge, sharing ideas, workshopping solutions, and envisioning projects that contribute to the community's well-being.

About Riverlution Precious Plastic: Riverlution Precious Plastic is a community-led social enterprise dedicated to reducing plastic waste by recycling and repurposing plastic materials, specifically focusing on plastics with recycling codes #2 and #5. We operate within the Riverlution Eco Park, a dynamic space committed to ecological restoration, food resilience, and community engagement.

One of our primary objectives is to divert plastic waste from landfills, and a significant portion of this waste comes from plastic milk tops and lids. These items, while necessary for packaging, often end up contributing to our growing plastic pollution problem. At Riverlution Precious Plastic, we have created an innovative solution to transform these plastic lids into new and valuable products, including plant pots and other useful items.



Why Collaborate with Us: We believe that the dairy industry has a crucial role to play in addressing the plastic waste challenge, and we see a unique opportunity for collaboration. By investing in our project, you can:

Demonstrate Corporate Responsibility: Partnering with Riverlution Precious Plastic aligns with your commitment to environmental sustainability and corporate social responsibility. It's an opportunity to showcase your dedication to reducing plastic waste.

Reduce Environmental Impact: Supporting our initiative allows the dairy industry to actively contribute to reducing plastic waste in the environment, thus minimizing the industry's ecological footprint.

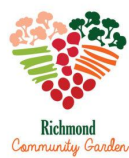
Circular Economy Approach: Our project embodies the principles of a circular economy, where materials are reused, repurposed, and given new life. By investing, you can participate in and promote this sustainable model.

Community Engagement: Collaboration with Riverlution Precious Plastic provides a platform to engage with local communities, build brand trust, and strengthen your relationships with consumers who are increasingly environmentally conscious.

How You Can Get Involved: There are several ways the dairy industry can participate in and support our project:

- **Financial Investment:** Contributing financially to our initiative will enable us to expand our operations, reach more people, and have a more significant impact on plastic waste reduction.
- **Promotion and Partnerships:** Collaborate with us on awareness campaigns or co-branded initiatives that highlight your commitment to sustainability and our shared mission.
- **Educational Engagement:** Engage with us in educating the public about the importance of responsible plastic use and recycling.

We firmly believe that together, we can make a substantial difference in reducing plastic waste, conserving resources, and building a more sustainable future for our communities and the planet.



If this opportunity aligns with your organization's values and objectives, I would welcome the chance to discuss it further with you at your convenience. Please feel free to reply to this email or reach out to me directly at admin@richmondcommunitygarden.co.nz.

Thank you for considering this proposal. We look forward to the possibility of working together to create a greener, more sustainable world.

Our website and Facebook and Instagram, if you would like to know more about us

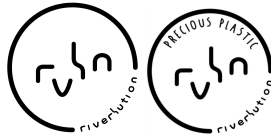
<https://richmondcommunitygarden.co.nz/>

<https://www.facebook.com/RichmondCommunityGardenRiverlution>

<https://www.instagram.com/richmondcommunitygarden/>

<https://www.instagram.com/riverlution.precious.plastic/>

<https://www.facebook.com/riverlutionhub>



Riverlution Precious Plastic Christchurch - Business-Plan

Contact Details

Contact name: Morgane Honore

Address: 46a Vogel St, Richmond

City: Christchurch

Zip: 8013

Email: admin@richmondcommunitygarden.co.nz

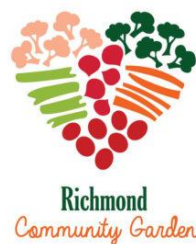
Phone Number: 0278080693

Website URL: <https://richmondcommunitygarden.co.nz/>

Instagram: <https://www.instagram.com/richmondcommunitygarden/>

https://www.instagram.com/riverlutio_Christchurch/

“There is no such thing as waste, only resources in the wrong place”



8 June 2023

03 941 8999

53 Hereford Street
Christchurch 8013

PO Box 73013
Christchurch 8154

ccc.govt.nz

Kia Ora,

Re: Council support of the Precious Plastic Project

I would like to strongly support the Precious Plastic Project proposed by the Richmond Community Garden and Riverlution Eco Hub. This team of community champions are resourceful, innovative, and well connected and supported by their community. They have a proven track record of delivering great results for our environment and community. They are capable and passionate and consistently to deliver great value for money outcomes when supported by the Council.

This project is well aligned to our Council's waste management, climate change and strengthening communities strategies. This group have been actively collecting and processing plastic that would otherwise be landfilled (i.e. items not collected by municipal services) and processing it into useful products associated with their activities. With your support, this project will be expanded to more successfully deliver lasting benefits for our community and environment.

If you have any questions about our support of this project or our experience with this outstanding group of can do Kiwis, please contact me using the details below.

Ngā mihi,

Tony Moore
Principal Advisor – Climate Resilience
Strategic Policy and Resilience Unit

Christchurch City Council

Tony.Moore@ccc.govt.nz

03 9416426



Cost Estimate

G&A The Giveback Agency
Attn: G&A Creative Ltd
3/112 Tuam Street
Christchurch Central
Christchurch 8011
New Zealand
124-508-126

**Richmond Community
Garden**
Morgane Honore

ISSUED ON 28 Jul, 2023

[00900] Riverlution_PreciousPlasticSigns			
Design, Visuals & Artwork	13	\$160	\$2,080.00
13 Signs for Riverlution Plastic Project			15% GST on Income (15%)
SUBTOTAL			\$2,080.00
15% GST ON INCOME (15%)			\$312.00
TOTAL (NZD)			\$2,392.00

☐ I agree to, and accept, this Cost Estimate

NAME

SIGNATURE DATE

ADDITIONAL COMMENTS

Dear

Thank you for this opportunity to present this **Cost Estimate** for your project:

To accept this **Cost Estimate**, please print it, sign it somewhere, scan it back in, and send it back to me! alternatively, please respond to the email in which the **Cost Estimate** was sent with a confirmation of Acceptance of this **Cost Estimate**.

If you have any questions or concerns regarding this **Cost Estimate**, please don't hesitate to call or email me.

--

Emma Cameron
Director / Designer / Everything Do-er emmac@gaagency.co.nz / (03) 366 3678
G&A - The Giveback [Agency](#)
www.gaagency.co.nz



Hohepa Canterbury
23 Barrington Street
PO Box 28101, Beckenham
Christchurch 8023

Phone: 03 332 3179
www.hohepacanterbury.com

17th August 2023

Letter of Support for the Riverlution Eco Hub

To whom it may concern,

Hōhepa Canterbury have been contributing to and assisting at the Richmond Community Gardens and the Riverlution Eco Hub for approximately five years. The people we support at Hōhepa have always been warmly welcomed and included in the projects delivered by the RCG and Riverlution Eco Hub. In particular our Community Support group, with is part of our LEAP programme have been involved in creating vegetable and herb gardens, planting native trees in the Richmond Red Zone and have helped at the local Fungi Farm and also have supported their olive oil initiatives by harvesting olives in various parts of Canterbury.

The efforts and values that underpin the work done at Richmond Community Gardens align closely to the values and philosophies that inform the support we provide at Hōhepa Canterbury. In particular promoting sustainability, environmental awareness and community engagement. For the people we support at Hōhepa having a place that they can contribute and connect to the community while also learning about sustainable practices has provided countless positive experiences and memories.

While at the Riverlution Eco Hub, we have also noticed how valuable the space is to the local community and often here positive feedback from the people we interact with there.

We look forward to continuing to collaborate on projects with/at the Riverlution Eco Hub and support their plans for expansion and development.

Yours sincerely,

Karen Wilson Cassandra Troman

Karen Wilson (Support Co-ordinator) & Cassandra Troman (LEAP Manager)
Hohepa Canterbury

Hi

We are very grateful to the Richmond Community Hub for the collection of aluminium and steel tops for our youth programmes and we fully support plastic top recycling and encourage people to save these too and are happy to provide a collection point for these, before passing on to your organisation.

Kind regards
Jo Houghton
Field Officer / Manager

CHRISTCHURCH KIDNEY SOCIETY INC.
Serving our renal community for over 40 years
55 Lunns Road, Middleton, Christchurch 8024
Ph: 03 341 0906 or 021 2860 309



8 June 2023

To whom it may concern

As one of the organisers of the Ōtautahi Repair Revolution I am writing in support of the Richmond Community Garden and Riverlution Eco Hub's precious plastic project. Every month we run a repair café at the Riverlution Eco Hub. Sometimes people coming to the repair café bring along plastic bottle tops and lids to be recycled. The collection points are also a talking point with people saying they didn't know there was a way of recycling bottle tops or that they would try to remember to bring in bottle tops and lids next time.

We support the efforts of the Richmond Community Garden and Riverlution Eco Hub to remove barriers to reuse and recycling and know that funding would allow them to expand their programme to create useful objects and thus divert more from landfill.

Sarah Pritchett

SK Pritchett

Co-organiser of the Ōtautahi Repair Revolution

To Whom It May Concern:

The Richmond Riverlution Eco Hub, which operates in the Red Zone of Christchurch beside Avebury House, is a holistic community looking to enhance the planet and its people. Their plastic recycling project is a valuable resource for using plastic bottle tops and shaping them into usable products.

St Augustine's Church operates a collection point for Recycling, and the Eco Hub takes all I bring them from there, two other groups to which I belong, the neighbourhood, and other friends. I estimate around 200 people use our church depot as the starting point. From there it is an easy drop-off to Richmond, and I am very happy with the quality of their collection systems for other recycling products as well.

This project is showing how essential it is to have committed communities like Richmond who lead by example when it comes to doing something very positive to promote the drastic cutting back needed to save our planet from drowning in plastic. Please give them your full support.

Maxine Kissling
Recycling Coordinator St Augustine's Church
Cashmere
Christchurch



Tuesday 13th June 2023

To The Ministry for The Environment,

We are writing in support of Riverlution Eco Hub's application to the Plastic Innovation Fund.

The Riverlution Eco Hub are a rūpū working with Para Kore ki Ōtautahi, who have offered opportunities for the establishment of our entity in Christchurch since launching in May 2022. Riverlution Eco Hub have supported local kaumatua in hosting the local urban Marae, kaumatua group, to see how plastics are being repurposed on their site through the collecting and shredding of plastic tops and lids (numbers 2 & 5) and creating new practical tools for everyday use.

The Riverlution Project Plastic has so far diverted over 400 kg's of plastic and has been a recommended drop off location to the other rūpū that Para Kore supports in the city.

We support Riverlution Hub's goal to establish an educational and productive space to transform domestic recycling that is not taken care of by our city. Alongside the waste reduction benefits this project offers, the social and economical impact that the project will produce in terms of work and community engagement is important too.

Ngā mihi

Miriama Buchanan

Kaiwhakahaere | Kaiārahi

Taranaki, Te Ūpoko o Te Ika & Te Waipounamu



INCOME	STATUS	Description	Amount Requested	Amount Secured
Community Commitment	Secured		\$3,000	\$3,000
RCG INCOME	Ongoing		\$5,000	\$5,000
Sustainability & Innovation fundFund CCC	Secured	Sustainable workshops at Riverlution Hub	\$12,000	\$12 000
New Zealand Lottery round 2	Secured	Admin & Operational Cost	\$50,000	\$50 000
Cogs	Secured	Admin & Operational Cost	\$5,000	\$5,000
Rata	Secured	Admin & Operational Cost	\$20,000	\$20 000
Airport Fund	Secured	Riverlution Precious Plastic	\$5,000	1,000\$
Strengthening Communities	Applied	Admin & Operational Cost	\$50,000	\$0
Waste Minimization CCC	This aplication	Container and fit outs	\$30,000	\$0
Pledge me campaign		Will start a pledge me campaign in August for people to sponsor a pot	\$30,000	\$0
		Total	\$210,000	\$96 000
Year 1				
Cost Summary (see TABS for Detail)			TOTAL	CONTRIBUTION REQUEST
Containers		2 containers	\$19,654	\$19,654
Contaner fit out			\$12,357	\$12,356
Power requirements (3 phase)			\$7,375	\$0
Power			\$4,000	\$0
Equipment for Plastics program			\$76,435	\$0
Signage (see signage breakdown in signage tab)			\$4,494	\$4,494
Tool Lendery		Current assest tools from Riverlution Collective	\$9,619	0
Wages (Product making refer to Employee Cost Breakdown)			\$47,800	\$0
Drop Off Stations & Washing station (refer to New Drop Off Station Cost Breakdown tab)			\$2,948	\$0
Security			\$3,351	\$1,000
Admin			\$18,300	0
Operations Manager			\$40,000	0
Promotion, advertisement, workshops			25000	0
Monthly Repair Workshops				



21 May 2024

The Richmond Residents' and Business Association (known as We are Richmond) supports the Riverlution Eco Hub, how it engages and connects residents of the Richmond and the wider community, and its ongoing mission to educate and encourage people to actively better their lives and the environment through their Precious Plastics Program.

We are Richmond's office is based in the Riverlution Eco Hub, so we have the unique opportunity to see the fruits of the work being done by the Riverlution Eco Hub, first-hand. We collaborate on community projects and events, and also promote their work through social media posts, in our online newsletter, and in person when interacting with members of the community.

The Hub has many benefits to our community, a few of which are: having a physical presence (both indoors and outdoors), a place for people to come and learn, and bringing together community members to make a difference. It's also a place that educates our community about integrating sustainable practices in everyday life, and diverting resources out of landfill, including the Precious Plastics Program.

Riverlution is a place to come and learn, but also share knowledge and meet others. Gatherings and workshops are held year-round, day and night. Its location within the Richmond Community Garden, and right next to the river, gives people a reason to come to a place of beauty and healing, which promotes mental and physical well-being. Nearly every time visitors visit the Riverlution Eco Hub for the first time, they exclaim how beautiful the surroundings are and how wonderful it is to be there. As a collection point of various traditionally non-recyclable items such as plastic lids, razors, chip packets, etc, it creates a daily/weekly habit of locals to drop off and interact with the Hub, others and the gardens. It's an easy, sustainable way to encourage residents to think about their rubbish and find ways to recycle it, and get out into beautiful surroundings whilst doing it.

**richmond
residents &
business
association**

wearerichmond.co.nz

PO Box 26-097,
Christchurch, 8013
secretary@wearerichmond.co.nz



Individuals drop off not only their own plastic lids and recyclables, but some gather from friends, family, or on behalf of groups, creating networks of people keen to keep their rubbish out of the landfill. It also creates purpose and social points of contact for these networks, increasing interactions and purpose for each individual who saves their items in their household. The Precious Plastics Program gives them something tangible to contribute to.

Our organisations have partnered on multiple projects and events in the past. Seed bomb-making for tamariki, Matariki, holding meetings, Spring Fair, Richmond Gala, alleyway painting (storage of materials is paramount), and many more. On a personal level, after working at the Hub and attending multiple workshops, my view on the amount of rubbish I produce, and where it goes, has changed. I now wash and dry my soft plastics and chip packets, collect my un-recyclable lids and bring them into the Hub every week. I also avoid buying non-renewable resources more now than I did before working at the Hub.

The Riverlution Eco Hub is an asset to our community in so many ways. We are so thankful to have it not only up and running, but thriving and positively affecting the lives of so many in its surroundings. The Precious Plastics Program is a way for the community to get involved and make useful items from what they used to throw away.

Please feel free to contact us for further information, if necessary.

Kind regards,

Rachel Crawford

Capacity Builder/ Secretary

We Are Richmond–Richmond Residents and Business Association

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Exterior fit out, Natural Paint for both containers, shade sail in between two workshops areas			15 000	0
TOTAL PROJECT COST YEAR 1			\$271,333	\$37,504



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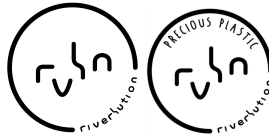
Capacity Builder/ Secretary

We Are Richmond–Richmond Residents and Business Association

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Executive Summary

Background: Riverlution Precious Plastic aims to establish a community-led plastic reprocessing social enterprise adjacent to the Riverlution Eco Hub in the Riverlution Eco Park. The primary objective is to collect lids and tops made of number 2 (PP) and number 5 (HDPE) plastics and transform them into garden-themed products. The business plan includes a timeline of producing pot plants and seedling trays in the first year and introducing a new garden theme product each subsequent year. The organisation is currently looking for funding to support the enterprise's initial setup and provide wages for two years, allowing sufficient time for the social enterprise to become self-sustaining.

Project Aims and Objectives: Our Aim is to combat plastic waste through community engagement, education, and upcycling efforts. We envision a world where plastic waste is minimised, and individuals are empowered to make sustainable choices for a greener future. These Aims align with the Riverlution and Richmond Community Garden Impact Strategy (*see Appendix Three - Impact Action Plan*)



Products and Services:

In Year One the initial focus will be on creating pot plants from the collected numbers 2 and 5 plastic lids and tops. These pot plants will be designed to incorporate a garden theme and offer a sustainable alternative to traditional plant pots. Year 2 and Beyond the enterprise will introduce a new garden-themed product. This will allow for continuous



innovation and expansion of the product line, catering to the evolving needs and preferences of customers and the wider collection community.

Market Analysis:

The target market includes environmentally-conscious individuals, gardening enthusiasts, and those interested in sustainable home decor. We see market trends showing there is a growing demand for eco-friendly products and a rising awareness of the detrimental effects of plastic waste on the environment. Conscious consumption and re-commerce appear widely in the top 5 trends by a number of large research companies. In the wider competitive landscape, Precious Plastic Christchurch aims to differentiate itself through its community-led approach, locally sourced materials, and unique garden-themed products. (see Appendix 3 -SWOT)

Marketing and Sales Strategy:

We will establish a strong online presence through a dedicated website and social media platforms to showcase products, share educational content, and engage with the community and wider network both established and emerging. By collaborating with local gardening and sustainability organisations to promote the enterprise we will reach a wider audience, as well as participate in local markets, fairs, and exhibitions to showcase products and build brand recognition. There is an exciting opportunity to offer customised products and gift packages to cater to specific customer needs particularly in our collection and maker community. (see Appendix 5 - Network Diagram)

Operations and Implementation:

We will expand our current plastic reprocessing facility adjacent to the Riverlution Eco Hub, equipped with the necessary machinery and tools for processing and manufacturing the garden-themed products. Once we are set up fully we can develop a comprehensive supply chain management system to ensure a steady supply of plastic lids and tops from the community drop-off station, employ a skilled team responsible for coordinating volunteers, sorting, cleaning, processing, and manufacturing the products and

implement quality control measures to ensure the finished products meet high standards of craftsmanship and durability.

Financial Projections:

We have prepared a detailed budget that outlined the initial setup costs of our project. This included acquiring necessary machinery, equipment, adapting the facility, and covering marketing expenses. By carefully planning and managing our finances, we ensured a smooth and efficient setup process. To ensure stability and continuity, we



have estimated the cost of wages for two years, taking into account the number of employees required for our operations. This allowed us to provide a fair and competitive salary while remaining financially sustainable.

We are developing a sales forecast based on market research and projected demand for the pot plants and subsequent garden-themed products.

Social and Environmental Impact:

The impact of this project is wide reaching, it will;

- Promote recycling and waste reduction in the local community.
- Provide employment opportunities and fair wages for individuals involved • Demonstrate economic viability while creating positive change in our society and environment
- Model for other initiatives, inspiring replication and amplifying collective efforts toward a sustainable future
- Lasting difference in our community and more sustainable and inclusive society

PRECIOUS PLASTICS CHRISTCHURCH

1. Project Summary

The current economics of recycling, centred around large centralised facilities, are not a viable business model. The costs associated with processing and transporting recyclable materials often exceed the income generated, adding a significant burden to the environment. As a result, much of the plastic produced today can only be stored with the hope of a future solution.

In response, Precious Plastic Christchurch aims to establish a network of separate workspaces dedicated to collecting recyclable plastic. The collected plastic will be shredded and processed into sheets and other forms, which can then be used for panels, table tops, or CNC cut into a wide variety of products, our focus initially will be garden-related products.

The concept aligns with the principles of the Circular Economy, shifting from the traditional "take-make-consume and dispose of" approach to one that emphasises prolonging product lifespans and eliminating waste.

2. Problem we are solving

Problem: New Zealand faces significant waste management challenges, with 15.5 million tonnes of waste discarded annually. Plastic usage represents a pressing issue, with substantial environmental and social impacts resulting from the increasing amount



of plastic being used and discarded. Currently, only 28% of waste in New Zealand is recycled.

Solution: Precious Plastic Christchurch seeks to address the plastic waste problem by establishing a social enterprise. The enterprise aims to create part-time to full-time job opportunities for two people in the first instance. The collected and shredded plastic will be processed in a sheet press workspace to produce panels of various dimensions. These panels can be used for cladding, furniture surfaces, moulded into 3D forms, or CNC milled to create a wide range of products. This recycling method maximises the utilisation of potential plastic waste and creates products with a lifespan matching that of the material itself.



Aims:

One aspect of the business is to create a space that fosters community interest in waste minimisation and educates individuals about different ways to reuse plastic. The evolving studio space will serve as a platform for product design and fabrication, creating employment opportunities for emerging designers and artists while promoting cradle-to-cradle design principles.

Precious Plastic Christchurch aims to assist in the transition away from single-use plastics and promote the adoption of cradle-to-cradle design. All products from the workspace will be designed for repair, modular replacement, and recycling. The project's significant environmental benefits are expected to gain support from numerous groups and individuals throughout New Zealand.

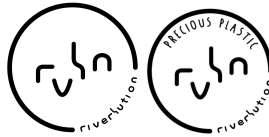
Weave te ao Māori values into our process and create better outcomes for tangata whenua by incorporating key Māori values and principles;

Wairuatanga: We recognize the importance of the connection between people and the land, as well as the protection of mauri (life force). Through our project, we foster a stronger relationship between people and the natural environment, emphasizing the significance of this connection.

Manaakitanga: Creating a safe and accessible environment is crucial for us. We strive to ensure that our projects and systems are welcoming, providing a space where everyone feels valued and respected.

Hauora: The well-being of individuals is a fundamental aspect of our project. We promote spiritual and mental well-being through a creative environment, understanding the positive impact it has on overall health.

Whanaungatanga: We value social connectedness and community. Our project fosters a sense of togetherness by providing a gathering place and creating a whānau-like atmosphere where relationships are nurtured and strengthened.



Mahinga Kai: We recognize the significance of Mahinga Kai and its connection to the natural environment. By producing plant pots through the Riverlution Precious Plastic initiative, we support food growth and contribute to the preservation and enhancement of the natural environment.

3. Team

<p>Name: Zac Imhoof</p> <p>Role: Ideas guy, builder and motivator.</p> <p>Experience: Industrial designer with experience in community projects.</p>	<p>Name: Morgane Honoré</p> <p>Role: Operations Manager</p> <p>Experience: Operations Manager for Richmond Community Garden and Riverlution Eco Hub.</p>	<p>Name: Hayley Guglietta</p> <p>Role: Financial Manager</p> <p>Experience: Experienced treasurer, funding manager with a number of successful businesses under her belt.</p>
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Supported by:

Richmond Community Trust (RCG) Trustees

Currently the Trust has a Patron and 6 trustees, 5 of which have been on board since the beginning, the organisation has assigned officers, is a registered charity and has a proven track record for the delivery of large events and projects. The Trust uses Xero for its accounting and funding tracking, producing a peer-reviewed Tier report each year and an accountant produced report every 5 years.

The trustees are all hands-on, have a particular area of interest, participate in events, and share the responsibility for a Saturday garden roster to open, manage volunteers and close every 6 weeks, this enables the hub to be open 6 days per week. The skills that exist within this team include administration, sales, management, product



production, permaculture, composting, earth building, waste minimisation, event management, project management, financial reporting and funding.



Volunteers

RCG has a number of volunteers both individuals and within groups that participate at many levels around our organisation, we are focused on ensuring we have a safe, fun and variable environment with low barriers for people to participate, accommodating a wide range of abilities and interests.

Pace Interns

We have a strong relationship with the University of Canterbury PACE program and ARA Nutritional School, we generally have a minimum of one sometimes two interns working on projects per term. We have set up a true working environment to ensure the interns have a worthwhile experience when working with our organisation.

Collection Community

Our collection community is growing, currently we have at least 10 organisations from all over the city collecting their plastics, we have a queue of organisations as far south as Timaru who are ready to set up their own collection points once we have our maker space running.

Precious Plastics Community

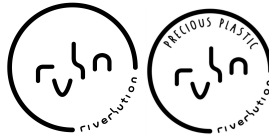
The Precious Plastics Community is world wide, open source and strong, we are connected to the expertise found within this community through social media. In New Zealand there is a small but supportive group that meets regularly on Zoom and in person when we can.

Makers

The Community of makers is currently relatively small in Christchurch, we are currently connected to a number who are supportive of this project and of regular events bringing the makers and prospective makers together regularly.

4. Market Analysis





Our target market for the end product includes environmentally-conscious individuals, gardening enthusiasts, and those interested in sustainable home decor, for the maker space it will be for our collection community and local makers.

Current market research shows there is a growing demand for eco-friendly products and a rising awareness of the detrimental effects of plastic waste on the environment. Conscious consumption and re-commerce appear widely in the top trends by a number of large research companies. People are becoming increasingly aware of what the plastic waste is doing to our environment but often feel powerless to make a difference, we will see a strong increase in the demand for transparency, an increased focus on what is important, green products and more socially conscious shopping according to the leaders in this space.

(see Appendix 4 - Resources and Research)

We are competing with a large number of retail stores offering low cost, overseas produced products, the market trend towards transparent and sustainable products will be our unique proposition.

A. Products & Services

Precious Plastic Christchurch already produces marbled plastic sheets of various thicknesses using the available machinery. These sheets can be laser cut or CNC cut into a wide range of products, including curved and bent designs. With access to a potentially abundant stream of plastic waste, the business can scale up production for the garden related niche products we have identified as appealing to our target market. As we grow we will be able to expand these products by providing plastic components for renovation and house interiors, such as tables, doors, and wall facades, utilising the sheet press machine.

In addition to products, Precious Plastic will offer workshops and educational services. These initiatives will help raise awareness and expand potential markets. For example, the business may partner with schools to produce certain products that are typically outsourced, generating contracts in exchange for educational engagements.



The delivery of products and services will be facilitated through an online store on the business's website, collaboration with the wider Christchurch Precious Plastics Network, partnerships with local retailers, direct sales at events and markets, and collaborative projects with businesses, organisations, and educational institutions.



Products

Flat Tiles

We are currently producing flat tiles that can be used for splashbacks, bench tops, clock faces etc flat panels are easy to bend into other shapes.

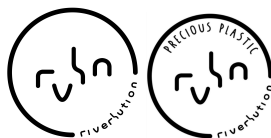
Planter pots for indoor plants

After extensive market research the organisation has identified planter pots as a good starter product, it fits with the organisation's kopapa, relatively easy to produce the mould and an established audience to market to.



Planters for outdoor plants

Bigger outdoor planters will be possible once we have scaled up our collection locations.



Birdfeeders

Is a product that is aligned with our kopapa and will be relatively easy to produce.

Larger Products

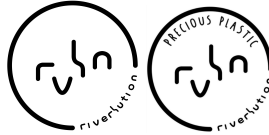
Over time as our skill base increases and we grow our collection points we will add large more complex products to our range.



Competitive advantage



There are currently a small handful of groups within Christchurch (remix plastic, twins connection, ODF recycled plastic design) who specialise in small batch items, particularly around jewellery. They have focused on using small quantities of plastic to



start a conversation about plastic recycling. Larger more technical competitors include Critical. who has achieved a similar workspace and designs products at the scale we are aiming for.

Other businesses designing products with recycled plastic Second-life plastics - odd selection of products Future Post - extruding Greenloop - NIR detectable plant pots Terracycle - have not indicated what companies use their plastic pellets so unsure if products are 100% recycled material. Producing sheets allows for a variety of different product outcomes, we could go in a direction similar to Future Post by producing simple sheets in large quantities or similar to Critical utilising a CNC machine to produce a variety of 3-dimensional forms.

The Christchurch Precious Plastic projects unique proposition is the network that we exist in (see Appendix 5 - Christchurch Precious plastics Network Diagram) Although the Hub for this network is centred around the Riverlution Eco Hub there is room for additional hubs to be created across the city, these hubs may decided to offer the whole process or they might simply be an educational space, the opportunity is for the network of hubs to collaborate together to have a greater reach. Because our project is



about building a community, social enterprise and education on waste reduction our focus will be different to a commercial operator who is building a business for profit.

Total Available Market

Currently, in Christchurch, we recycle plastics number 1,,2 and 5. PVC, LDPE, PS,, and others (others) need to be utilised. The second target is to create a high-end product design and fabrication workspace to create jobs for upcoming designers and facilitate their pathway into the industry while developing their ability to create a positive impact.

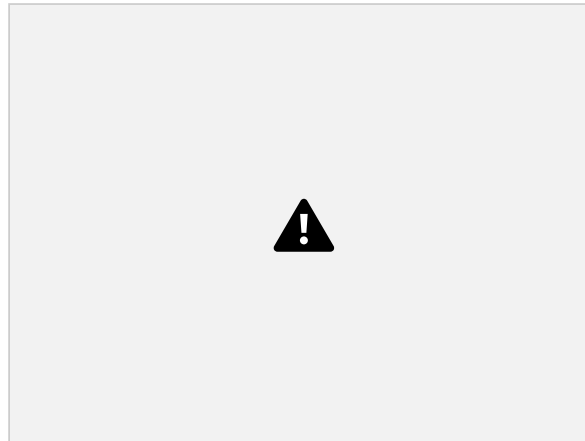
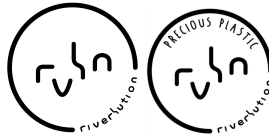


Figure retrieved from:

<https://ccc.govt.nz/services/rubbish-and-recycling/how-were-doing-with-rubbish-and-recycling/waste-statistics>

B. Target Groups

Our target groups are split into two categories; Those that want to be collection points and be assisted to develop a product to target their own network and the customers Riverlution will target with our own products.



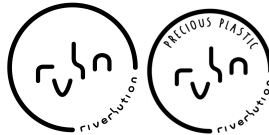
In the first instance, the Riverlution's Target market is gardeners, plant lovers, cafes and businesses, we will sell our garden products across sustainable shops around the South Island to reach the wider community.

Research:

From our research, it is clear there is a shift to more consensus consumers who are looking to support sustainable products with a transparency around where the raw materials have been sourced and the production process. We know that Christchurch is an innovative city experiencing increasing development. This suggests that there will be a significant demand for our products, especially for shops and building fit-outs.

C. Engagement

Our engagement strategy involves utilising various marketing channels to reach our target customer groups. We plan to leverage social media platforms, such as Instagram



and Facebook, to showcase our products and engage with potential customers. Our marketing rollout plan includes starting with these platforms and gradually expanding to other channels as we establish our presence.

D. Sales Channels

We will operate through a business-to-business (B2B) and business-to consumer (B2C) sales model, targeting both businesses and individual customers. Our products will be available for purchase directly from us, either through our online store or by contacting our sales team. Additionally, we will explore collaborations with other Precious Plastic businesses, such as Remix Plastic and Twins Connection, to sell shredded plastic to them if they scale up their manufacturing capabilities.

The biggest opportunity to develop wider sales channels is the growth within the network, bringing more makers on board and collaborating with the collection spaces to assist with the development of their own products they can sell to their own customers.

5. Operations



A. Key Resources

Our key resources include essential tools, machines, and people necessary for our operations. This includes a shredder and oven, tile mould, and a skilled workforce. Additionally, we will adhere to any required permits, licences, and safety requirements to operate legally and safely.

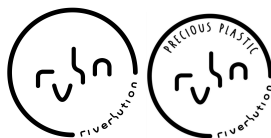
B. Key Tasks

Our key tasks involve the production and delivery of our products. This includes operating the product-making equipment, managing the pot production process, and ensuring quality control measures are in place. Our team possesses the necessary skills and experience to carry out these tasks effectively.

Post product release we will develop a communications strategy, Sales funnel and means to track these.

C. Running Costs

We have identified key running costs for our business, such as a power bill and wages.



This is outlined in our detailed budget. (see section 7 - Financials)

D. Collaborators

Riverlution Eco Hub is collecting the tops and lids through their community collection point. - The collection, and community point and include the shredder workspace. The machines and equipment is owned by the Richmond Community Garden Trust and the sales of the products will be used to sustain their projects. This will be a central point for teaching skills and also for distributing and selling products. The Richmond Community Garden has been operating for nearly 10 years and holds a great reputation for delivery and a wide and supportive network across the city.

1. Churches and Community Hubs: We have established collaborations with six churches and four community hubs that are actively collecting plastic waste. These partnerships provide us with a network of collection points and contribute



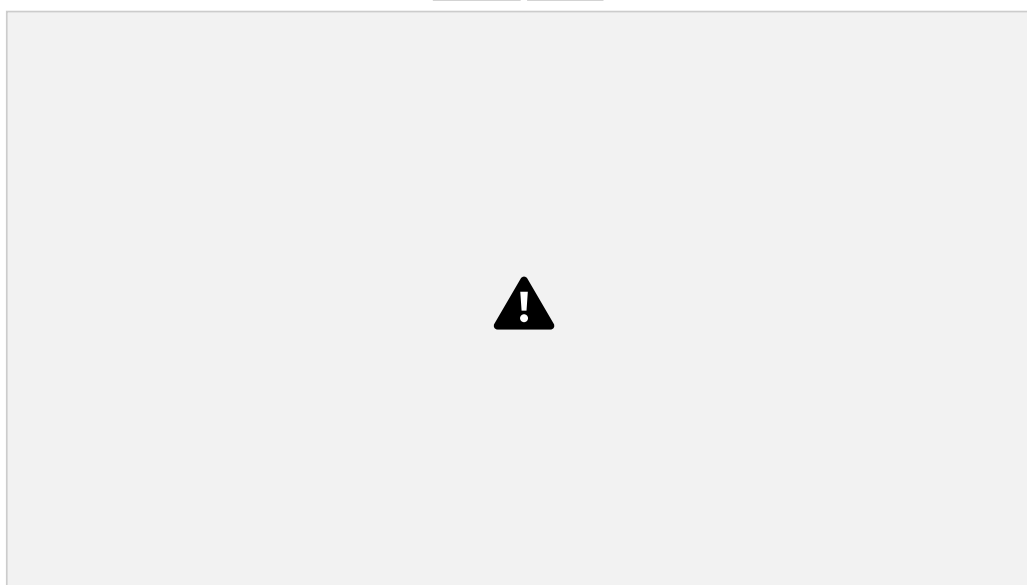
to our mission of reducing plastic waste. These organisations are supportive of our cause and actively participate in plastic waste collection initiatives. 2. New World Supermarkets: Two New World supermarkets have joined our initiative by collecting plastic waste. Their involvement helps expand our collection network and increases the volume of plastic waste we can recycle. This collaboration strengthens our mission by reaching a broader customer base and promoting sustainable practices within the retail sector.

3. Hohepa and Recreate Christchurch: Hohepa and Recreate Christchurch are valuable collaborators who provide support in sorting, washing, and shredding the bottle tops. Their involvement ensures the efficient processing of plastic waste and contributes to the overall quality of our recycled materials. This partnership allows us to streamline our operations and maintain high standards in our production process.
4. Interns, students
5. Other Community Groups: We have established relationships with various community groups that serve as additional collection points for plastic waste. These groups actively participate in our recycling efforts, contributing to the overall success of our mission.

These strategic collaborations and partnerships are instrumental in helping us deliver on our mission of reducing plastic waste, promoting sustainability, and creating valuable products from recycled materials. By working together with these organisations and



individuals, we leverage their resources, expertise, and networks to maximise our impact and reach a wider audience.



6. Impacts

A. Community

Our initiative will have a significant positive impact on the community by creating awareness and hope regarding the issue of plastic waste. Through our work, we aim to empower the general public to redirect their waste and take proactive steps towards reducing plastic pollution. By providing a space for education, engagement, and action, we will inspire individuals to make a tangible difference in their daily lives and contribute to a more sustainable future. This aligns with our mission and vision of promoting environmental consciousness and fostering a sense of responsibility towards our planet.

Additionally, our involvement with the Precious Plastic community enables us to contribute back to the open-source movement. We believe in the power of sharing knowledge and collaborating with other Precious Plastic workspaces. By actively participating in the community, we will contribute valuable insights, techniques, and innovations that can benefit others in their plastic recycling endeavours. This collaborative approach not only strengthens the global impact of the Precious Plastic





movement but also reinforces our commitment to collective action and knowledge sharing.

Kaitiakitanga: In line with the principles of kaitiakitanga, we embrace the role of guardianship and stewardship over natural and physical resources, as described in tikanga Māori. We recognize that we have a responsibility to protect and preserve the environment for future generations. Our initiative embodies this ethic of stewardship by actively working towards reducing plastic waste and promoting sustainable practices.

By incorporating the values of kaitiakitanga into our operations, we aim to create a positive impact that extends beyond immediate environmental benefits. We acknowledge that our actions have far-reaching consequences, and it is our duty to ensure that we act responsibly and in harmony with the natural world. Through education, engagement, and community involvement, we seek to foster a sense of kaitiakitanga among individuals and inspire them to become active participants in the preservation of our planet's resources.

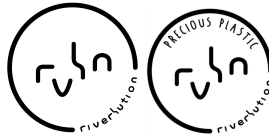
Overall, our initiative not only addresses the immediate problem of plastic waste but also contributes to the well-being of individuals, the empowerment of communities, and the preservation of our natural environment. By creating awareness, sharing knowledge, and embracing the principles of kaitiakitanga, we strive to make a lasting positive impact on our community and beyond.

B. Planet

Our vision for a cleaner, greener future is at the core of our commitment to the environment. We strive to make a positive impact on the planet through our initiatives and set measurable goals to gauge our progress. While we recognise the need for continuous refinement, we have established several metrics to evaluate our environmental contributions.



The first metric focuses on diverting young plastic from landfill. By recycling and repurposing plastic waste, we aim to prevent it from polluting our land and waterways. This metric allows us to quantify the amount of plastic waste we divert from the traditional waste disposal system, reducing its negative impact on the environment.



The second metric reflects our emphasis on creating durable products with extended lifespans. We believe in designing and producing items that are built to last, promoting a shift away from the throwaway culture. By prioritising longevity, we reduce the overall consumption of resources and minimise waste generation.

The third metric measures the recyclability of our products. We aim to maximise the potential for plastic to be recycled multiple times, either into the same product or different products. This circular approach reduces the demand for virgin plastic and encourages the utilisation of recycled materials.

Energy efficiency is a crucial aspect of our environmental impact, which is captured in the fourth metric. We strive to minimise energy inputs throughout our production processes while maintaining operational efficiency. By adopting sustainable energy practices and exploring innovative technologies, we reduce our carbon footprint and contribute to a more sustainable future.

The fifth metric encompasses the broader influence we aspire to have on people's habits and attitudes towards plastic consumption and reuse. We aim to inspire individuals to rethink their relationship with plastic and embrace more sustainable alternatives. By fostering awareness, education, and behaviour change, we seek to empower individuals to make conscious choices that reduce their plastic footprint.

As we continue to refine our definitions and metrics, we remain committed to making a positive environmental impact. Our ultimate goal is to contribute to a circular economy where plastic waste is minimised, resources are conserved, and our planet thrives. Through ongoing evaluation, innovation, and collaboration, we strive to create a significant and measurable difference in our environmental footprint.



C. Income Streams

Our revenue model is designed to ensure a steady flow of income month after month, supporting the sustainability and growth of our social enterprise. We have carefully considered various income streams and pricing strategies to maximise profitability and align with our target customer's expectations. Below, we outline our primary revenue sources and the pricing models associated with each:

1. **Product Sales:** Our core income stream stems from the sale of our innovative and sustainably produced products. We will offer a range of recycled plastic items, including two sizes pot plants, Hexagon tiles, bokashi bins and small worm farms and other unique creations. Pricing for each product is determined based on



factors such as material costs, production complexity, market demand, and perceived value.

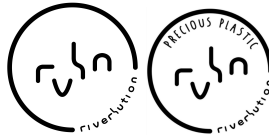
2. Workshop Ticket Sales: As part of our community engagement and educational efforts, we plan to organise workshops where participants can learn about plastic recycling, product creation, and sustainable design practices. We will offer tickets to these workshops at a competitive price point, considering the value of knowledge and hands-on experience provided. Workshop ticket sales contribute to our monthly income and help foster awareness and interest in our mission.
3. Collaboration Projects: We explore collaborative opportunities with like-minded businesses, such as Innate Furniture, to create unique products and generate additional revenue streams. These collaborations enable us to combine our expertise and resources, resulting in mutually beneficial outcomes. Pricing for collaboration projects will be determined through negotiations based on factors such as scope, design complexity, production costs, and market value.
4. Grants and Funding: To support specific initiatives, expansion, and community projects, we actively seek grants and funding opportunities. By aligning our goals with funding organisations and showcasing the positive impact we can create, we increase the likelihood of securing financial support. Grants and funding contribute to our overall income and enable us to undertake larger-scale projects and investments.

Our pricing strategy is based on a careful balance between market competitiveness, production costs, and our commitment to sustainability. We aim to offer products and



services at fair and reasonable prices, ensuring they are accessible to our target customers while reflecting the value we provide. As we expand our product range and refine our business operations, we will continuously assess and adjust our pricing models to optimise revenue and meet the evolving needs and expectations of our customers.

By diversifying our income streams and employing thoughtful pricing strategies, we establish a solid foundation for financial sustainability, enabling us to fulfil our aim of creating a positive impact on the environment and society while maintaining a viable and prosperous business.



7. Financials

Investment Costs:

Item Secured as of June 2023 Seeking Funding For Shredder \$1200

Oven \$500

Hexagon Tiles mould \$100

Containers \$19654 Container Fit-out \$12357 2 Phase Power
\$7375

Equipment for plastic moulds etc \$76435

Signage \$4494 Drop Off Stations \$2948



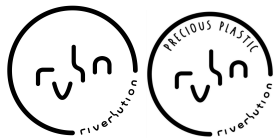
Security \$3351

Compliance Costs \$10000

The investment costs mentioned above represent the initial capital we own at current. And the costs for the remaining machinery, see [full budget document](#) to understand our operations, purchase the necessary machinery and equipment, set up the workspace, and cover miscellaneous expenses.

It is important to note that the specific costs may vary based on factors such as location, sourcing options, and the availability of used equipment. The figures provided here are indicative and subject to adjustment during the actual implementation phase. In addition to the investment costs, we have also considered ongoing operating expenses, including raw material procurement, utility bills, maintenance, wages, marketing, and other miscellaneous costs. A detailed breakdown of these expenses, along with revenue projections and profit margins, can be found in our financial projections document.

By carefully analysing the investment costs and projecting our financial performance,



we are confident that our business model can generate sustainable revenue and deliver a positive return on investment. We will continue to refine and update our financial projections as we gather more accurate data and market insights. Through prudent financial planning and effective cost management, we aim to achieve financial success while making a meaningful impact on the environment and our community.

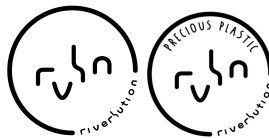
Annual operations costs excluding sales and cost of sales NOTE: (Sales forecast and costs associated with product production currently being completed)

Description Cost Funded By

Administration (Wages, accounting, IT etc	60% funders. Year 3 100% Sales
Operations Managers (encompasses plastics \$18,300 Year 1 funders. Year 2 40% sales accordingly)	\$40,000 Year 1 funders. Year 2 30% sales 70% funders,
project and other projects cost is apportioned	Year 3 50% Sales 50% funders.
Education \$18,900 Year 1 \$0; Year 2 Funders (note this role would be funded ongoing)	
Power \$4,000 Year 1 funders 100%. Year 2 100% funders. Year 3 100% Sales	
TOTAL COSTS PER ANNUM	\$81,200

8. Legal Structure

The Richmond Community Garden Trust is the governing body for a number of projects



including the Richmond Community Garden, Riverlution Eco Hub, Riverlution Eco Park, Riverlution Collective, Fungi Farm, Ōtākaro Trapping, Richmond Composting, Riverlution Nature play trail and the Christchurch Precious Plastics project.

The trustees started working together in 2015 predominantly focused on post earthquake community development in a suburb severely impacted by post disaster issues they formally established the Trust in 2017, the original trustees are still involved in varying capacities. The Trust is a registered charity and produces a Tier 3 or 4 Financial reports each year depending on their turnover every few years the financial report is produced by a qualified accounting firm. The Financial reports are published at the Charities register along with a yearly impact report. They produce a comprehensive Impact Action Plan (**see Appendix 3 - Impact Action Plan**) every 3 years, review it annually and it forms the basis of the day to day operations plan.



9. Appendix

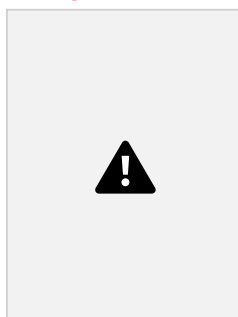


Hub

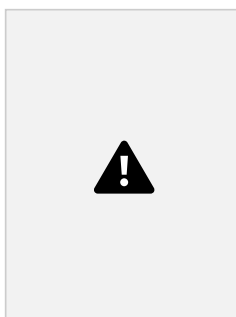


week load from
Kaiapoi Cafe's

Appendix One - Current products and set up



Hexagon tiles made
at the Riverlution
Eco hubClock made
at Riverlution Eco



Drying tops after washing at
Riverlution Eco hub



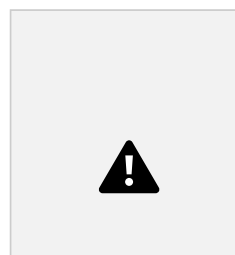
Volunteers sorting

Hohepa -
organisation

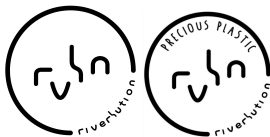


working with people
with disabilities
helping sort weekly

Delta and RCG

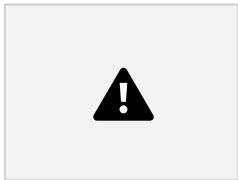


Recreate -

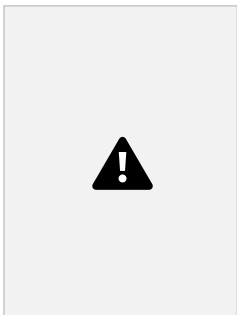


Organisation
working with
teenagers and
young adults with
disabilities sorting
tops on a weekly
basis at Riverlution
Eco Hub

Trialling different
colours



Riverlution
Shredder



Riverlution
Oven

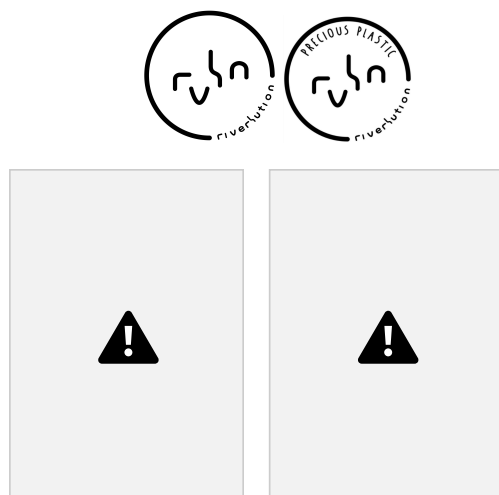


tops on a
rainy day



First tiles trials





2022 Infographic
Achievements

Holy Trinity Church

St Augustine

We really want to thank you for the fantastic session you held at Holy Trinity Avonside a few weeks ago. Your presentation on recycling was informative, lively and utterly inspiring. We all became so enthusiastic with our own recycling and have shared enthusiastically with the wider church community. We have set up a collection hub for people to bring their recycling material which a couple of us then take to Richmond gardens to add to the boxes. We have enthusiastic conversations about what can and can't be recycled here and research other places for other types of recycling that we can use too. your work has inspired us to look for ways and to support each other in waste minimisation and it's not easy to raise the awareness and enthusiasm in a church with a mainly older population. The work carried out at the Richmond gardens is such a wonderful asset as it not only teaches and informs but provides a hub for community participation and connection.

Appendix Two - Referral Letters and comments

Community Drop off station visual
available on our website



Church The Richmond Riverlution Eco Hub, which operates in the Red Zone of Christchurch beside Avebury House, is a holistic community looking to enhance the planet and its people. Their plastic recycling project is a valuable resource for using plastic bottle tops and shaping them into usable products.



St Augustine's Church operates a collection point for Recycling, and the Eco Hub takes all I bring from there, two other groups to which I belong, the neighbourhood, and other friends. I estimate around 200 people use our church depot as the starting point. From there it is an easy drop-off to Richmond, and I am very happy with the quality of their collection systems for other recycling products as well.

This project is showing how essential it is to have committed communities like Richmond who lead by example when it comes to doing something very positive to promote the drastic cutting back needed to save our planet from drowning in plastic. Please give them your full support.

Maxine Kissling

Para Kore The Riverlution Eco Hub are a rūpū working with Para Kore ki Ōtautahi, who have offered opportunities for the establishment of our entity in Christchurch since launching in May 2022. Riverlution Eco Hub have supported local kaumatua in hosting the local urban Marae, kaumatua group, to see how plastics are being repurposed on their site through the collecting and shredding of plastic tops and lids (numbers 2 & 5) and creating new practical tools for everyday use.

The Riverlution Project Plastic has so far diverted over 400 kg's of plastic and has been a recommended drop off location to the other rūpū that Para Kore supports in the city.

We support Riverlution Hub's goal to establish an educational and productive space to transform domestic recycling that is not taken care of by our city. Alongside the waste reduction benefits this project offers, the social and economical impact that the project will produce in terms of work and Community engagement is important too.

many visitors to the centre wanting to divert as much waste from the landfill as possible.

**St Albans
Residents
Association (SARA) Inc**

Circular Lids in Schools is proud to support Riverlution Eco Hub and Richmond Community Garden Trust in their mahi, particularly their Precious Plastics activities.

**Bronwyn Cook
Circular Lids in Schools Project**

Their work is a vital part of resource recovery, waste reduction and environmental management in Ōtautahi Christchurch. They are a vibrant and active part of the community and we respect their achievements and aspirations to continue to improve our environment.

We would love for their work to be supported by receiving funding for their activities. They have a number of ambitious goals that would be invaluable for the community to be able to further collective environmental action.

**Principal
Advisor –**
The St Albans Community Centre directs anyone looking for somewhere to take plastic lids for recycling to the Richmond Community Garden as we support your project and we have

Council support of the Precious Plastic Project
I would like to strongly support the Precious Plastic Project



proposed by the Richmond Community Garden and Riverlution Eco Hub. This team of community champions are resourceful, innovative, and well connected and supported by their

community. They have a proven track record of delivering great results for our environment and community. They are capable and passionate and consistently to deliver great value for money outcomes when supported by the Council. This project is well aligned to our Council's waste management, climate change and strengthening communities strategies. This group have been actively collecting and processing plastic that would otherwise be landfilled (i.e. items not collected by municipal services) and processing it into useful products associated with their activities. With your support, this project will be expanded to more successfully deliver lasting benefits for our community and environment. If you have any questions about our support of this project or our experience with this outstanding group of can do Kiwis, please contact me using the details below.

Climate
Resilience

Strategic Policy and Resilience Unit

Christchurch City Council

Tony Moore



Appendix Three - Impact Action Plan

IMPACT ACTION PLAN developed 1st Quarter of 2023 to help define a new strategic and operations plan for 2024 - 2027

Facilitated by Rose Challies from Terra Nova Foundation with input from a number of our key stakeholders listed at the end of this document.

NEED (root cause)	IMPACT (what we see) APPROACH (we do this by) CONTRIBUTION (we)	make ACTIONS (implementation)	OPERATIONS PLAN: Formulate an operations plan that guides our work and objectives.
Safe, inclusive, and engaging spaces: Due to intensification, climate change, and other external factors, there is a need for spaces that are safe, fun, inclusive, and connected to the natural environment. These spaces should be accessible, enable learning, encourage participation, creativity, belonging, and simply to be. Abundant	community spaces: The spaces we serve as kaitiakitanga are abundant in every way (mahinga kai, people) and held by the community as integral to their health and well-being. Restoration and preservation: Restoration of native flora and fauna, with strong ecosystems including soil and Te ao Māori principles: We	practise Te ao Māori principles and perspectives that inform how Te Tiriti can advance Māori cultural and social aspirations. Community involvement: We influence, inspire, and encourage the community to be involved in the planning and design Exemplary leadership: We act as a leading	example in local environmental impact, restoration of mahinga kai, and community development. Engagement opportunities: We offer a wide range of opportunities for community members to engage in building Space: Healthy and abundant spaces: Create spaces that are healthy, with abundant growing spaces, food forests, and native areas, following the principles of good placemaking and catering to a diverse range of individuals and cultures. External impact: Foster positive external impact for Strengthening connections: There is



a disconnect between people and the environment they are surrounded by. Developing connections within communities, spaces, and organisations can combat the downstream effects associated with isolation and disconnection.

Mahinga kai: Mahinga kai refers to the value of natural resources that sustain life, including the life of people. It has become increasingly difficult to uphold this value as sites, species, and habitats are lost, degraded, and compromised. As kaitiakitanga (guardians) of this place, there is a responsibility to reverse this situation.

Sustainability: Current systems do not support sustainability, defined as the quality of being able to continue over a period of time. For the Richmond Community Gardens and the Riverlution Project, this means addressing these

challenges and promoting sustainable practices within the community.

invertebrates, is achieved.

Accessible healthy food: Local communities have access to abundant and healthy food sources within walking distance.

Inspiring others: We inspire other communities to set up similar spaces and initiatives.

Regional awareness and engagement: Our efforts contribute to regional awareness and engagement in what it means to be sustainable.

Self-sustaining organisation: Our organisation is 100% self-funded and gives back, enabling others in our wider community to explore aligned initiatives.



process, ensuring their needs and preferences are taken into account. This lowers barriers for participation and fosters a strong sense of community and pride in what we deliver.

Professional and collaborative delivery: Our delivery is professional, collaborative, and process-driven, layered amongst an environment that is authentic, fun, and fluid.

Reflection and adjustment: We pause regularly to reflect, adjust, and celebrate the impact we are making.

Sustainable practices: We practise sustainable principles, waste reduction, equity, organic, permaculture, circular economics, and purposefully



search for income approaches that are aligned with our kaupapa.

strong, biodiverse ecosystems.

Stakeholder alignment: We align ourselves with relevant key stakeholders to enhance their objectives and support our mission.

Influence and transformation: We inform and influence local and central government, contributing to regional transformation in both environmental and social aspects.

Richmond residents, organisations, businesses, social housing providers, and other public spaces.

Workshops:

Sustainability education: Host workshops that educate the community on sustainability practices and principles.

Predator-Free action: Implement a predator-free action plan, enabling an urban trapping program that virtually surrounds the Ōtākaro.

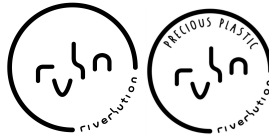
Inclusive Events: Organise family-friendly, low-cost events that connect and engage the community.

Plastic program: Establish a plastic program that serves as a hub for community members to drop off their plastics and create an economic solution for secondary use, which can be offered to other aligned communities.

Organisational stability: Ensure organisational stability through effective governance, social enterprise, and practices.

Monitoring, Evaluation, and Risk Management

By incorporating monitoring, evaluation, and risk management into our high-level document, we are embracing our unique approach and reinforcing the Richmond Community Gardens and the Riverlution Project's values. This will not only strengthen our strategic document and operations plan



but also enhance our overall impact on the community and the environment.

Monitoring and Evaluation:

- Embracing KPIs: In our unique and engaging manner, we'll establish KPIs that capture the essence of our initiatives and programs, such as community connections, environmental restoration, and knowledge sharing.
- Reflective Progress Reviews: By conducting progress reviews with an open and collaborative mindset, we'll assess our strategic document and operations plan, celebrating our achievements and learning from areas that require improvement.
- Community-driven Data Collection: Collecting data through community feedback, surveys, and other relevant sources, we'll ensure that our impact assessment reflects the voices of those we serve and the environment we nurture.

Risk Management:

- Acknowledging Risks: We'll openly discuss potential risks and challenges that may emerge during our journey, understanding that being prepared is crucial to the success and resilience of our initiatives.
- Collaborative Mitigation Strategies: In our characteristic collaborative approach, we'll work together to develop strategies that minimise the impact of potential risks, ensuring that our programs remain strong and adaptable to change.
- Proactive Risk Assessment: Regularly evaluating and adjusting our risk management strategies, we'll stay ahead of emerging challenges and maintain our commitment to positive community and environmental outcomes.



Current 2020-2023 Vision Mission and Goals

The **Vision, Mission, Values** and **Goals** that have seen us achieve so much, we are reviewing these currently after spending the best part of 2023 looking at the Impact we want to make.

VISION:

We are a pioneer organisation leading the charge in food resilience, ecological restoration and community engagement in the Red Zone.

MISSION:

Create a safe community space for our volunteers, locals and our wider network to enjoy, learn and connect

Produce enough food to donate to food banks and for our community to self harvest 3 acres of appropriately planted natives, perennials, food crops, fruit trees and ornamental plants.

VALUES:

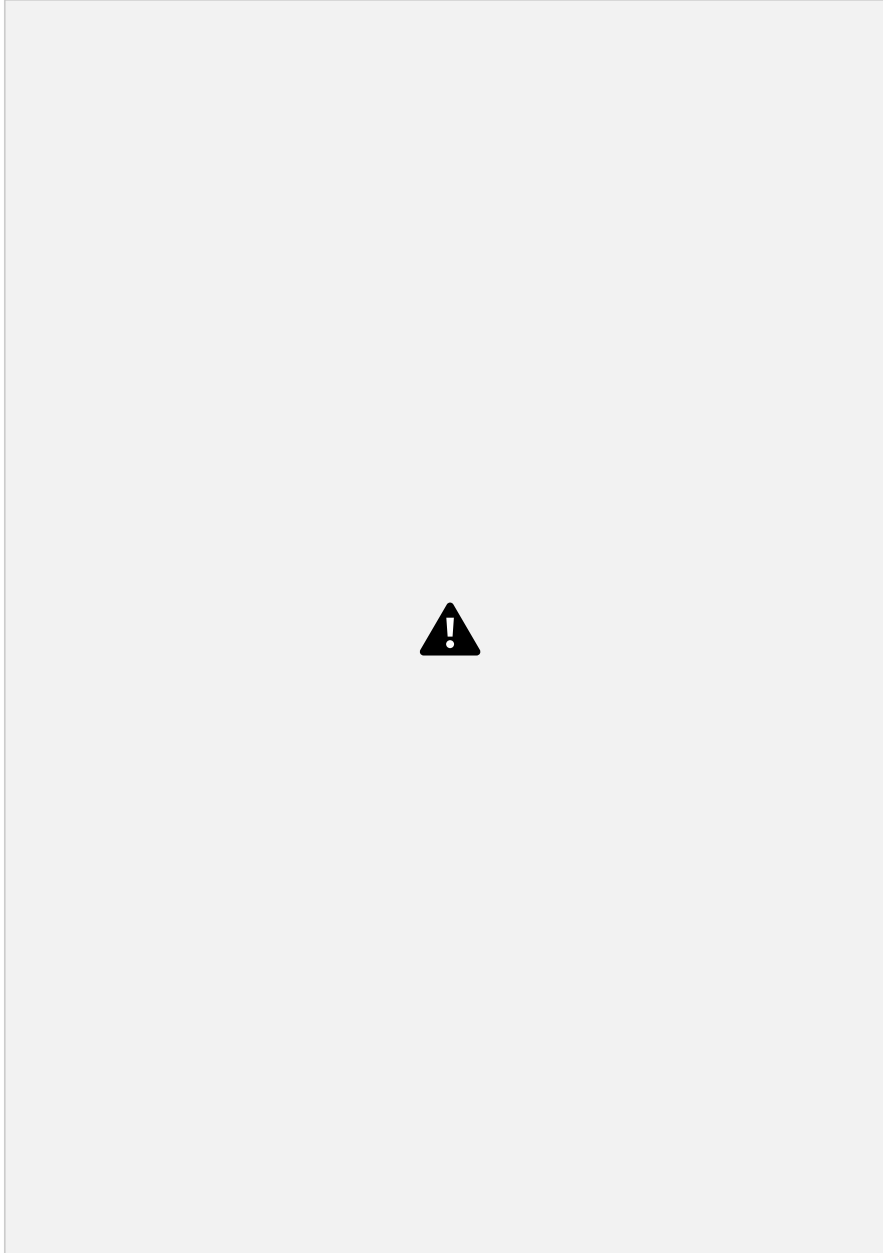
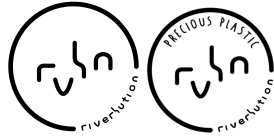
People, authentic, trust, integrity, nurturing, fun, inspiring, organised, safe



GOALS:

1. **Space** - Develop our 2 acres of red zone land as an exemplar of a safe community space, incorporating food resilience, education, and nature play, combating social isolation, poverty and limited access to healthy food.
2. **Self Sufficiency** - By creating a circular economy with our own resources and waste. Exploring relevant commercial opportunities to earn our own income through our produce, location and ecotourism activities.
3. **Volunteers** - Recruit, nurture and retain volunteers
4. **Organic Ethos** - We have documented thorough ecological practices and committed to working towards organic certification
5. **Community Engagement** - Increase the amount of fresh food we distribute to our immediate community groups we regularly engage with, facilitate appropriate, regular community events and actively contribute to the wider food resilience network.





STAKEHOLDER LIST



WHO ALIGNMENT NOTES

We are Richmond • Collaborate on events

- Use the Hub as working space
- Provide koha for the use of Hub

Avebury • Events collaboration,

- Advertise the garden on RCN
- Printing

Delta • Drops off cardboard for Compost projects

- Provides us with bread & goods for volunteers.
- We collect their food & green waste

Avebury Shed • Maintenance & repair •
Projects collaboration

Haven on Avon
Trap boxes

Avon Ōtākaro Network • Events & projects collaborations Meet in the Middle, River clean up Avon Ōtākaro forest Park

Horticultural Society • Uses the site and prune our trees

- Discounted courses

Christchurch Envirohub • Rent office space at the Hub

- Looks after the hub when operation manager isn't on-site
- Provides website platform for booking system

Riverlution Collective

Immediate Neighbours • Support with weeding site, trapping

Bee Awesome • Provide education about bees

- Use space for bee hives

Bee Club • Support at our events

Inga • Monthly sustainable workshops

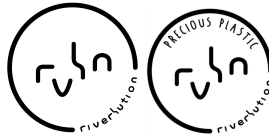
Joanna Wildish • Support with art & workshops



Repair Revolution • Provides koha for Hub use • Align with our sustainability goal

Jn Creative • Design

- website



Dementia Canterbury • Provide a safe space for them to do gardening

Hohepa • Provide a safe space for them to do gardening

Nourish Ōraka • Process excess food waste from school lunches

Chip Packet Project NZ • Collect chip packets

Appendix 3 - SWOT

Strengths

Internal to the Organisation



Weaknesses

Internal to the Organisation

Proven track record of project delivery
Established network of collectors
Established Network of Makers
Established Shredder and designs
Established volunteer base
Low overheads
Knowledge of our Operations
Manager Engineer and product Development personal onboard
Strong community support
Collaboration with local authorities
Access to diverse sources of plastic waste
Innovation in product design

Opportunities

External to the Organisation

Shift in

buying patterns to more sustainable products

No other community focused social Enterprises

Precious Plastics open source

nature Diversification into various market segments and niche lines

Growing our network of collectors

Attracting other makers to use the

spaces External sales internal

organisational sustainability

Strategic partnerships with

retailers Government incentives

and grants Integration of

emerging technologies

Educational outreach programs

Paid Capacity

Space

Lacking in start up funding

Promotion

Price to market

Branding

R&D constraints

Lack of capacity to take more

raw materials

Lack of formalised quality

control processes

Limited scalability

Limited marketing expertise

Threats

External to the Organisation

Easy to set up

Low barrier to entry

Cheaper virgin plastic products on the market

Consumer behaviour

Current life cycle of plastics

Commercialisation of Waste products for other uses.



Precious plastics open source
nature Legislation changes
Economic conditions swinging the
cost benefit.
Negative public perception of

recycled products
Supply chain disruptions
Price volatility
Competitor advancements



Appendix 4 - Resources/Research

https://preciousplastic.com/impact/2023.html?utm_source=brevio&utm_campaign=Impact%20Report%20WITH%20THE%20LINK&utm_medium=email

<https://www.pwc.com/gx/en/consumer-markets/future-of-consumer-markets/future-of-consumer-markets-report-2021.pdf>

<https://www.forbes.com/sites/bernardmarr/2021/11/08/the-8-biggest-consumer-and-customer-experience-trends-in-2022/?sh=2ce93d54cfef>

<https://www2.deloitte.com/us/en/pages/consulting/articles/future-of-retail-consumer-trends-2022.html>

<https://ccc.govt.nz/services/rubbish-and-recycling/how-were-doing-with-rubbish-and-recycling/waste-statistics>

<https://ccc.govt.nz/assets/Images/Services/Rubbish-recycling/CIT4421-top-1-tips-A5-flyer-WEB.pdf>

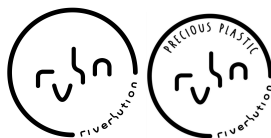
<https://ccc.govt.nz/services/rubbish-and-recycling/lookupitem>

<https://www.stuff.co.nz/the-press/news/125004316/christchurch-council-confiscates-hundreds-of-yellow-bins-from-shoddy-recyclers>

https://drive.google.com/file/d/1ZezgS6dAS_xLfcJO97bjxUIDqIJc13YD/view?usp=sharing

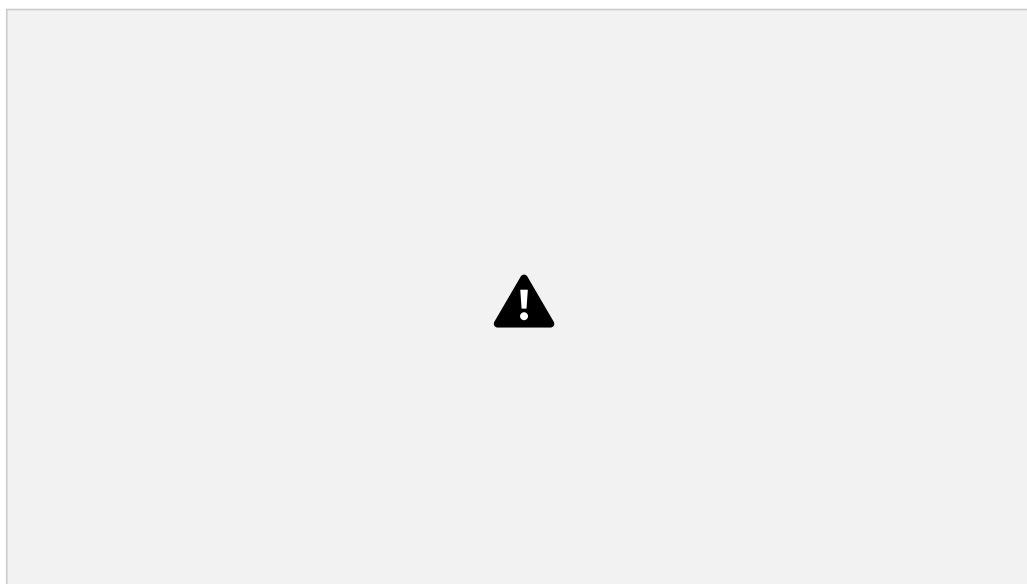
<https://www.stuff.co.nz/national/politics/118018134/government-moves-to-ban-plastic-fruit-stickers-cutlery-and-cotton-buds>





Appendix 5 - Christchurch Precious Plastics Network Diagram

The Christchurch Precious Plastics Network is well established already with a number of collection points and makers across the city with a clear HUB developing at Riverlution. The opportunities to expand this network are endless, New World have expressed a desire to have a collection point at each one of their supermarkets, every community garden has expressed interest in becoming a collection point, and we already service a number of churches.



New information :



Addressing the Issue of Fumes:

In the process of melting plastic, certain molecules undergo a transformation into smaller molecules, transitioning into a gaseous state known as VOC (Volatile Organic Compound) fumes. Among plastics, PP and PE generate the least amount of these fumes. Notably, HDPE, due to its high density and stable rigid structure, is considered the safest plastic to melt. Its unique properties enable it to undergo the melting, moulding, cooling, and repetition cycle with minimal fume production.

On the other hand, plastics like ABS and PS pose greater challenges due to the substantial production of cyclic compound fumes during melting. These fumes carry harmful implications for human health. Precious Plastic HQ conducted fume testing on PS and PP, using a photoionization detector. The results revealed that PS produces five times more cyclic compounds than PP, making proper safety measures crucial.

To ensure a safe working environment, the use of gas masks and stand-alone filters becomes imperative when operating machines like injection, extrusion, and sheet press. This filtration process effectively mitigates the impact of cyclic compounds.

Environmental Impact and Climate Considerations:

Beyond fumes, plastic processing also contributes to greenhouse gas emissions, particularly methane, ethylene, and carbon dioxide. These emissions are recognized as significant drivers of climate change. However, our approach to utilizing reused plastic in product creation directly combats this issue. By reducing the need for new plastic production, we actively curtail additional gas emissions associated with plastic manufacturing. Our commitment to repurposing plastic aligns with our broader sustainability goals, promoting a greener future for all.

Ao Tawhiti Unlimited Discovery - Climate Action Campus. (The Climate Action Campus is a satellite school of Ao Tawhiti)

****Contact details in applications retracted – request from CWJC administrator.***

Q. Trading name, if different

R. Climate Action Campus Trash 2 Treasure

Q. New Zealand Business Number (NZBN), if relevant R.

Q. Registered address

R. 180 Avonside Drive

Q. Postal address, if different

R.

Q. First name

R. Rachel

Q. Last name

R. Cummins

Q. Position

R. Learning Advisor, Climate Action Campus

Q. First name

R. Simon

Q. Last name

R. Marshall

Q. Total cost of project (\$)

R. \$13,700

Q. Amount requested from committee (\$)

R. \$8,220

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

R. We have not applied for any other funding . We have only been doing this Trash 2 Treasure scheme for 3 weeks . We have started with Naylor Love and Green Dog Insulation , and now have City Care Property on board, and are talking with Southbase and Consortium . The demand for the products has been very strong ..

Page 2 of 3 (2/3)

Q. Start date.

R. 10/05/2024

Q. End date.

R. 10/05/2025

Q. Location:

R. A specific region

Q. What region is your project area?

R. Probably more Christchurch City unless construction companies involved are working outside of the city

Q. Provide a high-level overview of the project and the key outcomes.

R. The concept is that clean Batts offcuts and clean construction waste is given to community groups, community gardens and members of the public who need them and can use them to stop them going to the tip .We are very aware of the emissions and the waste that comes from the Construction industry and want to try to do something to reduce that .Plus we have seen from the first few weeks what a keen demand there is for these materials . So we are using a garage and a fenced area at the Climate Action Campus to provide a venue for this to happen .
We understand that it is difficult for members of the public to go on to construction sites to get this waste because of the Health and safety rules but also the staff on site are all busy . So we will staff this area 2 hours a week and advertise it

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. We honestly don't know .Batts weigh very little but we understand from Batts itself that it does not recycle offcuts and has no intention of starting anything to do with recycling until it has finished its new manufacturing plant in Auckland . The weight of the timber , and other products that arrived in the first delivery from Naylor Love was probably around 3 tonnes

Q. Detail any other environmental and/or community benefits associated with this project.

R. We are a Climate Action Campus . We are a state school and students (primary and secondary - and sometimes tertiary) come to us with their teachers to take any action at all on climate change . Reusing materials to make things aligns well with that .2 seats have already been made from the timber delivered . We have a food pantry on site now and when we fill it and put it on Facebook it disappears within about 20 minutes . We are located in the east of Christchurch on the site of the former Avonside Girls High School ...so we have a lot of land and are in a relatively low decile area . We also want to use it as an educational tool for the students who are encouraged to think of their own social enterprise or small business , or environmental activity .
We have about 26 schools and educational organisations now using the site , and the Te Aratai Tech Centre which caters to 23 schools (students are intermediate age) is also located on site . So our reach to schools is great .

We are also part of the Canterbury Community Gardens Association and will reach into this community who are always looking for construction items , and things like reinforcing mesh are great trellises for them.

We run a Climate Action Fund to help students create their own social enterprise or small business so we want them to see opportunities that might not otherwise be visible to them until they leave school .

But we are acutely aware of the GHG emissions from construction and the amount of waste and we are keen to help those in that industry reduce those wastages .

Q. Outline the key project stages or milestones.

R. First step would be to run regularly and get up to 5 construction firms regularly involved . We plan to run it every Thursday afternoon .

Then by month 5 , we would be aiming to get up to 8 , and by month 7/8 we would want to be reaching about 10 construction companies with regular supplies .

We would also know our approximate salvage weight (although there are no scales at site) and what can be easily reused , where the demand is ...and to be looking to create new opportunities

Q. Outline the governance structure for the project.

R. The Climate Action Campus is a satellite school of Ao Tawhiti Unlimited Discovery so the ultimate authority is the Board of Trustees ...But Nick , our resident woodmaker , and woodwork teacher will man this 2 hours a week , and the project will be run, with the Board of Trustees' permission (that is a condition of any grant application) on site at the Campus in Avonside Drive .

Q. What are the measures of success?

R. Keeping construction waste out of the landfill Educating our students on the value of recycled materials and reusing the waste within community groups, community gardens, schools and individuals who need it

Q. Who are the key stakeholders?

R. We have started this with Naylor Love who are keen to reduce emissions and waste and Green Dog Insulation who bring the clean Batts offcuts . This is totally not for profit , so our key aims are educational and the avoidance of unnecessary tipping

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. Both Nick, who mans this during opening hours and Simon, who is our property manager are great at building . Nick teaches woodwork and has his own furniture making business

Q. What information will be tracked and evaluated at completion of the project?

R. Number of building related industries who are happy to use such a facility , some of the remakes that we have seen on site from students ,and community groups and the demand for such materials . Like did we get rid of everything each week, and which items were popular

Q. What are the key project risks and how will they be reduced or mitigated?

R. The risk is probably that the demand will exceed the supply

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. Batts come in closed plastic bags

Building materials go in an enclosed area .

There is a separate gate and the area is remote from all except the White Room Creative who are adult students , Most of the building is actually done off site in that people take the materials away . If any building is done on site then it is supervised .

We will not use items that have any hazardous substances Next door to this site ultimately we hope there will be a solar farm, currently in design and consenting .But that will all be fenced or the cables will be below ground as we need to make that completely safe for the children attending the school

Q. Will the project require any resource consent from the regional council or territorial authority?

R. The purpose of the school and our zoning is education and we intend to build a strong education focus around this .One of the opportunities that we offer students is the ability to set up their own social enterprise or small business so students will also be able to check what is out there by way of free resource and if they can find a use for it , use it as the basis for their own endeavour . The

Zoning is educational , and the restriction in the underlying Delta Reach is for heavy buildings .We do not intend to build anything except the fence .

Q. Is your activity an existing permitted activity?

R. Yes

Page 3 of 3 (3/3)

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. It reduces waste to the landfill

it allows that waste to be reused , repurposed or recycled

It also allows students(about 25 from the Campus , and 23 from the Te Aratai Tech Centre on site - with an overlap of about 4 schools) from a wide range of schools to see what construction firms are doing about their waste , and allows them to look -physically - at possible opportunities for these materials

Q. How does the project foster innovation?

R. The whole concept of the Climate Action Campus is about action on climate change . That can be anywhere . When we look with the students at any area of emissions or waste we can see the construction industry is a big contributor , and we would like to initiate some ,albeit small action to do something about that . More importantly we would like the students to see the opportunities that can come about from reusing or repurposing something that is currently thrown out . So we really cant predict what innovations will arise from it .

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

- Recycling: Reprocessing waste materials to produce new products.

Q. How will the project contribute towards one or more of the above?

R. Reduction of the waste going to the tip .

Awareness from those on the construction site about how much can be reused Awareness from the students about possibilities for reuse of product Naylor Love are very keen to particularly help community gardens who want access to this product so we will ensure they know about it as they are volunteer organisations already doing a lot in their community and we now they can do with all the help they can get .

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. It allows construction companies to reduce their waste - and they definitely need to !

It also allows students and others the chance to potentially use that “waste’ in a constructive way .

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R.

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. We assume the tipping charge is the usual \$415 per tonne , but some items may be different

Q. Describe your ability to deliver the project and provide any relevant track record.

R. Climate Action Campus is new and is a completely new concept in NZ -probably Australasia. It has been established with the very real help of the Ministry of Education here in Christchurch .The students come with their teachers to take any action on climate change . So we are new to this ...and can only do it . We have created the school, which is no small task, are currently at the resource consent stage for a solar farm on site, are transforming Cowlshaw Street which runs alongside the school into Pollination Street , run free community courses for adults on many things , have created excellent relationships in the area, and have managed to do so on extremely limited resources . We dont have a track record in Trash2Treasure but will work closely with the construction industry that knows much more about it ...esp Naylor Love .

Q. Provide any other supporting information, such as links to websites and social media.

R. Our facebook page is Climate Action Campus, Otautahi Our website is [Climate Action Campus \(google.com\)](#)

Budget - Trash 2 Treasure.rtf (2 Kb.):

Budget -Trash 2 Treasure

Provisos ...

We have only experimented with this for 4 weeks at the time of writing
The demand for Batts offcuts is strong. But they do not recycle. Green Dog
Insulation are happy to be part of this scheme and have been delivering. We
provide the storage and give away

Naylor Love have initiated this concept with us, and the construction waste that
they have delivered has been excellent and incredibly popular
We are meeting City Care Property this week and looking at some possible
reusables from demolition of quite new post-earthquake buildings, and Southbase
have made contact with us, and we are meeting this coming week. We expect to
contact a good number of other construction companies in the next few weeks

Provided by Campus

Single garage for Batt's offcuts storage

2 hours per week manning the Trash2 Treasure pickups from the public \$3500 per
annum

Large outside area for construction waste

Needs adding

Construction of fence where classroom block currently provides barrier - (its being
removed to Ilam School)

Cost of materials - approximately \$5,500

To build the fence -approx. \$ 700

Some of the construction companies want us to pick up from their sites so have
allowed for person and jeep and trailer to do so 2 hours per week = \$4,000 per
annum

Total cost to run for a year (not including the Campus' contribution of land, and
advertising - approximately \$13,700 including the cost to fence which is a one-off

We thought we would apply for 60% of that, which is \$8220

IMG_4331.jpeg (3165 Kb.):



IMG_4330.jpeg (4364 Kb.):



IMG_4332.jpeg (4189 Kb.):



IMG_4328.jpeg (4824 Kb.):



Naylor Love Canterbury

**Contact details in applications retracted – request from CWJC administrator.*

Q. New Zealand Business Number (NZBN), if relevant R. 9429046209108

Q. Registered address

R. 286 Cashel Street, Christchurch 8011

Q. Postal address, if different

R. PO Box 31006, Ilam, Christchurch 8444

Q. First name

R. Emma

Q. Last name

R. Williamson

Q. Position

R. Environmental Manager

Q. First name

R. Emma

Q. Last name

R. Williamson

Q. Total cost of project (\$)

R. 23,175.00

Q. Amount requested from committee (\$)

R. 12,375.00

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

R.

Page 2 of 3 (2/3)

Q. Start date.

R. 19/08/2024

Q. End date.

R. 18/08/2025

Q. Location:

R. A specific region

Q. What region is your project area?

R. Project specific, but will be in Canterbury.

Q. Provide a high-level overview of the project and the key outcomes.

R. High-level overview - repurpose redundant truck curtains into timber pack covers.

Key outcomes -

1. Divert single use timber pack plastic covers from landfill by using and reusing altered redundant truck curtains 2. Track the results and carbon emissions from a year long trial on one of our construction sites to see if it is beneficial to the wider industry. i.e., calculate CO2 emissions from creation of curtain, disposal to landfill once no longer viable as cover (no recycling in NZ for PVC sheeting currently), transportation back to supplier vs. disposal of single use plastic timber covers for one year 3. Calculate costs for disposal of single use plastic covers and see if disposal costs would be equal to, or greater than supply of repurposed covers

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Roughly estimating we will go through at least 60 packs of timber for duration of build. BRANZ waste volume to weight notes 1m3 of plastic at 38kgs.

1 x cover 0.5m3

60 x 0.5m3 = 30m3

30m3 x 38kg = 1,140 kgs of plastic

Q. Detail any other environmental and/or community benefits associated with this project.

R. New business opportunity for repurposing redundant truck curtains. Truck curtains need to be certified for load rating, the majority that can be repurposed are in great condition and will last a long time as pack covers. Potentially, if this trial is successful, we as an industry will be able to push back on our suppliers and make them take responsibility for their product stewardship.

Q. Outline the key project stages or milestones.

R. 1. Funding awarded

2. Source covers from distribution company (already engaged) 3. Alter curtains as per quote and design 4. Work with local distribution supplier (Carters) to put system in place for using truck curtains in lieu of plastic wrap 5. Keep detailed record of project 6. Complete CO2 emission report 7. Write a case study on results and distribute to the wider industry, including contact details for supply and alterations of curtains

Q. Outline the governance structure for the project.

R. Overall I will lead the project, but I will enlist the help of my sustainability committee, and seek advice from my colleagues and contacts in the community, especially with regards to the CO2 accounting.

Structure:

1. Sourcing of curtains and repurposing - Naylor Love 2. Transportation logistics of covers (to and from site) with local distributor - Naylor Love and Carters 3. Site based project team will track the number of timber packs and transportation of covers - Naylor Love 4. CO2 accounting - Naylor Love and Consultant 5. Publication of findings - Naylor Love

Q. What are the measures of success?

R. Diversion of waste from landfill

Uptake of scheme by the wider industry (supported if it stacks up \$\$ wise) Suppliers engaging in product stewardship of their own materials by push back from the industry

Q. Who are the key stakeholders?

R. Naylor Love

The wider construction industry

The community (lowering carbon emissions) Mana whenua Nature

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. Naylor Love Construction has been operating in Aotearoa since 1910 and as such has robust management plans in place. A trial such as this would be incorporated into subcontractor and

supplier agreements, plus written into our daily prestarts and tool box talks so all on site are aware of it's significance.

We are in the process of completing a timber waste study in association with Branz and T&T which has been successful, details on the link below:

<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.naylorlove.co.nz%2Ftimber-waste-audit%2F&data=05%7C02%7CCWJC%40ccc.govt.nz%7Cba569f52701d4c69b9a608dc7ec7cad2%7C45c97e4ebd8d4ddcbd6e2d62daa2a011%7C0%7C0%7C638524644077597564%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C0%7C%7C%7C&sdata=KP8xu5yPaoURqVJ%2BwRFe%2Fi37lZPd1hwXGFKKBCg4fU%3D&reserved=0>

Q. What information will be tracked and evaluated at completion of the project?

R. - How many times the covers were used during the one year period

- Waste from offcuts of repurposing truck curtains
- How many single use plastic covers would have been used instead and fees for sending to landfill
- How much carbon was emitted/saved from the project
- If there are any unforeseen or additional costs

Q. What are the key project risks and how will they be reduced or mitigated?

R. The biggest risk will be sorting out the process for our specific packs to be covered using the repurposed truck curtains at the supply end, then making sure they go back to the supplier for the next delivery (note, we are not proposing that these are used at the saw mill, just from local supplier to our sites).

The process will be written into our project specific management plans, subcontractor and supplier agreements, and training given to all those on site who are involved in the trial.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. All of our projects have site specific safety management plans. This trial will fall under our standard BAU.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. No

Page 3 of 3 (3/3)

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. Unfortunately PVC sheeting has PVC + Polyester (base cloth) it is not singular. Europe has developed machines to strip and separate the PVC from the polyester and we are able to send product over there, but the cost to do this is very expensive from NZ. The truck curtains will likely be degraded from UV damage over time and will then become redundant as timber covers, as such looking into using the material for bags etc, is likely not feasible. My hope is that by the time we need to replace them, recycling for this material is available in NZ.

Q. How does the project foster innovation?

R. By taking a product that is no longer of use for it's original purpose and altering it's current state into something new.

Q. Will the project contribute towards one or more of the following?

- R. - Reduction: Lessening waste generation.
- Reuse: Further use of products in their existing form for their original or similar purpose.

- Recycling: Reprocessing waste materials to produce new products.

Q. How will the project contribute towards one or more of the above?

R. By repurposing existing materials destined for landfill.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. The project maximises the use of the PVC sheeting and potentially creates a new business opportunity. If we can prove that disposal is equal to or greater than the cost for supply of repurposed covers it makes good business sense to switch to reusable covers. We could publish the tipping point i.e., disposal of x no. of covers is equal to 1 x repurposed cover

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R. - Remove or reduce a waste stream that may enter a waterbody?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. Cost effectiveness has been outlined above.

Disposal costs at managed landfills in Christchurch equate roughly to 0.27 cents per kg.

It's hard to estimate how much waste by weight we would divert from landfill as truck covers vary in length, width and thickness. We can however track weights, before and after alterations, which will all form part of the carbon assessment.

Single use plastic cover diversion weight is calculated to be 1,140 kgs.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. Naylor Love has environmental managers across the country, six in total including myself. We work together, not in silos, to help change the industry. Each of us also have our own regional committees, all members are passionate about the environment so finding a project for this trial will not be difficult.

I have been in the industry for over 15 years, first as a laborer, then apprentice carpenter, site foreperson, site manager, project manager and finally, environmental manager for Christchurch and Nelson. I understand construction, the limitations and problems, but I have a regional and national team at my back, including the board.

Sustainability is not green washing for Naylor Love. We are members of the Climate Leaders Coalition, signing the 2019 pledge and committing to reducing our carbon footprint in line with the aim of keeping global warming to less than 1.5 degrees. Our footprint is externally audited and assured through Toitu carbonreduce.

We have Site Waste Management Plans (SWMP) on all our sites nationwide with a minimum goal of diverting 70% of waste by weight from all our projects. This is mandatory and all data is recorded monthly using BraveGen software. How can we achieve our goal without measuring our results?

Q. Provide any other supporting information, such as links to websites and social media.

R. [Naylor Love on LinkedIn: #wasteshakedown](#)



Naylor Love's Post



Naylor Love
31,441 followers
1mo · Edited

We're proud to have teamed up with the Climate Action Campus in Christchurch to make it easier for community groups to access unneeded materials coming off our sites – and keep them out of landfill.

Giving leftover materials a second life is a focus for us – especially when they can be used for a good cause – but the logistics of doing so safely from a busy construction site can pose some challenges.

The Trash 2 Treasure scheme means we've been able to easily deliver materials that can be picked up by the public for free once a week - like this reinforcing mesh. We're looking forward to seeing the rest of the industry get involved.

Check out the story here! <https://lnkd.in/g2BvASGx>

#wasteshakedown



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[Naylor Love on LinkedIn: #wasteshakedown](#)

LinkedIn



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Naylor Love's Post



Naylor Love
31,441 followers
1mo

At The Youth Hub in Christchurch we were joined by Joel from [Resene](#) at our monthly recycling BBQ to hear about their Wash Wise scheme. They will take back surplus Resene-branded paint pots and recycle them from free, as well as other brands for a small charge – a service available to all residential or trade customers.

Taking it a step further, they can also provide wash-out bins to separate any chemicals from the water, so that it can be discharged without contaminating the wastewater system.

Thanks, Resene, for leading the way!

#wasteshakedown



62



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[Naylor Love on LinkedIn: Some of our Canterbury team used their volunteer day to get the...](#)

Item 7


Attachment E

LinkedIn

Articles People Learning Jobs Games

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Naylor Love's Post







Naylor Love
31,441 followers
2mo

Some of our Canterbury team used their volunteer day to get the restoration of New Brighton Community Gardens off to a great start, clearing overgrown trees, fixing up the playground and front gate, and building a new grow house.


A big shout out to Radar Geophysical, [Protranz Earthmoving Ltd](#) [Allied Concrete](#) [CARTERS Blacks Fasteners Ltd](#) and [Kennards Hire](#) for their help!

Peter Sheild Emma Williamson



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We've been working with [Tonkin + Taylor](#) on a detailed audit of the timber waste from our Christchurch Youth Hub site for [BRANZ](#). We've segregated the timber waste on site, recording the construction stage and estimating the amount and type. We got together to manually sort the two 9 cubic metre skips of timber we've collected so far, separating it into seven categories and weighing it to calibrate the site data.

All this information will help to build a picture of timber waste through the material and project lifecycle in New Zealand, an important step towards improving timber waste management and reducing the amount of timber that ends up in landfill. We've got more sort and weigh audits planned over the next 6 months.

#wasteshakedown



129 · 6 Comments

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Comment

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Unicom Security

3mo

Congrats to Naylor Love and Tonkin + Taylor for leading the way in sustainable construction practices! 🌱 Your dedication to auditing and categorizing timber waste is not just innovative; it's essential for paving the way to a greener future. This initiative is a shining example of how we can all contribute to reducing our ecological footprint. Unicom Security is all in for supporting eco-friendly

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Item 7

Attachment E

[Sustainability - Naylor Love, Commercial Construction](#)
Truck curtains costs.xlsx (12 Kb.):

Truck curtain repurposing to timber covers							
Item description	Type	Quantity	Amount	Cost A	Cost B	Notes	
4.8m cover alterations	No	5	\$ 595.00	\$ 2,975.00	\$ 2,975.00	Quote	
6m cover alterations	No	5	\$ 620.00	\$ 3,100.00	\$ 3,100.00	Quote	
Purchase of truck curtains	No	10	\$ 50.00	\$ 500.00	\$ 500.00	Estimate	
Transport to manufacturer	No	2	\$ 75.00	\$ 150.00	\$ 150.00	Estimate	
Transport to timber supplier	No	2	\$ 75.00	\$ 150.00	\$ 150.00	Estimate	
Transport back to timber supplier for reuse	No	60	\$ 50.00	\$ 3,000.00	\$ -	Aim is to utilise reverse logistics for returning the covers to our merchant	
Carbon assessment	Sum	1	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	Consultant fees	
Project management	Hours	80	\$ 85.00	\$ 6,800.00	\$ -	Project management of the trial will be conducted free of charge by Naylor Love, this will include input in the carbon assessment	
Publication of findings	Sum	1	\$ 500.00	\$ 500.00	\$ 500.00	Project management fees will be covered by the above, this sum is for professional printing of the case study for distribution to the wider community	
				\$22,175.00	\$ 12,375.00		

Emma Williamson.pdf (73 Kb.):



Emma Williamson

Environmental Manager

Qualifications & Achievements

Diploma of Construction Management
Leadership in Sustainable Business Course
Green Star Accredited Professional, NZ Green Building Council
Site Safe Gold Supervisor

Referee

Phil Bunnage
Project Manager, Orion Group
T. 027 535 2690
E. phil.bunnage@oriongroup.co.nz

Skills & Experience

Emma joined Naylor Love in 2016 as a project manager and has experience in both project management and sustainability management, earning her the title of our resident "greenie." She leads the Canterbury Sustainability Committee and has focused her studies on advancing Naylor Love's Sustaining 4 Key Result Areas.

As an environmental manager, Emma work proactively with site teams to establish and maintain environmental systems and procedures to meet specific requirements such and ensure that reporting is provided in a consistent and effective manner. She looks for new trends and provide leadership across the Canterbury region to support and develop the Environmental capabilities. She works closely with the wider project teams to identify and implement best practice waste reduction stream tailored for each sites and ensure there is a practical and effective waste management solutions and develop a sustainable construction delivery process.

She has Emma is recognised for her strong leadership qualities. She is passionate about sustainability and health and safety on site, encouraging team engagement in a proactive sustainable culture.

Previous Projects

Implementation of BraveGen, a reporting system to capture waste statistics across our Canterbury sites
Development and implementation of Naylor Love Waste and Diversion Reporting
Development of Waste Management Partners
Implementation of Office waste management across our sites
Emission reports and measurements
Environmental SWOT (Strengths, Weakness, Opportunities, Threats) Analysis for business planning
Sustainable materials whole-of-life cost studies and implementing sustainable procurement practices



R. Naylor Love Canterbury Limited

**Contact details in applications retracted – request from CWJC administrator.*

Q. New Zealand Business Number (NZBN), if relevant R. 9429046209108

Q. Registered address

R. 78 Ward Street

Dunedin Central

Dunedin 9016

Q. Postal address, if different

R. 286 Cashel Street

Christchurch Central

Christchurch 8011

Q. First name

R. Emma

Q. Last name

R. Williamson

Q. Position

R. Environmental Manager

Q. First name

R. Emma

Q. Last name

R. Williamson

Q. Total cost of project (\$)

R. 9,625.00

Q. Amount requested from committee (\$)

R. 4,950.00

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

R. N/A

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Q. Start date.

R. 01/10/2024

Q. End date.

R. 01/10/2025

Q. Location:

R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.

R. Subcontractor waste awareness sessions.

Many people who work in the C&D industry are not aware that our industry is accountable for up to 50% of landfill waste across Aotearoa. The intention of these subcontractor sessions is to raise awareness and give people practical solutions to reduce waste.

Key outcomes

- Raise awareness and inform of impact e.g., CO2 emissions from landfill waste
- Get people/companies started on their environmental sustainable journey
- Reduce landfill waste from our sector
- Gather results/statistics and publish the results

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Rather than leave this blank, I'll have a stab in the dark.

April 2023 to April 2024 - Naylor Love Projects in Canterbury emitted 134.87 tonnes of CO2 from sending waste to landfill. This figure does not include transportation, just waste breaking down in the landfill. Our waste by weight diversion rate for the region over the past 12 months is roughly 50%. I'd like to think that we could achieve at least 70% by this time next year after engaging our subcontractors in these sessions.

Q. Detail any other environmental and/or community benefits associated with this project.

R. Recently set up a 'Trash to Treasure' scheme with the Climate Action Campus. Would like to promote this further with the wider community.
CO2 emission reduction for the community.

Q. Outline the key project stages or milestones.

R. - Funding granted

- Secure dates for sessions
- Promote sessions
- Send out invites on Humanitix or similar
- Create course content (tweaked for audience e.g., won't talk to the flooring team about recycling paint and pots)
- Invite guest speakers (tweaked for audience e.g., Marley for PVC recycling scheme aimed at service trades)
- Create take away booklets
- Hold 4 x sessions
- Gather feedback using online survey
- Gather results from our projects October 24 - October 25
- Publish results

Q. Outline the governance structure for the project.

R. 1. Leaders

- Facilitator & co-facilitators

2. Planning team

- Coordination, content creation, logistics and comms
- 3. Participants
 - Subcontractors, waste experts and guest speakers
- 4. Agenda
 - Need to know, why do you need to know it, what can you do? Questions & survey
- 5. Follow-up
 - Analyze feedback and report on it. Follow up with those interested in 1/2 day sessions
- Track waste statistics

Q. What are the measures of success?

R. - Full attendance - 200 people

- Reduction of waste from our construction sites - measured
- Post session survey results

The survey will ask attendees if they are interested in further sessions to help start their 'green' journey. Many find it challenging and don't know where to begin, but starting is crucial. We're considering hosting half-day workshops to support those eager to make progress.

Q. Who are the key stakeholders?
R. Naylor Love
Community/People
Nature
Mana whenua

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?
R. We have Waste Partnership Lists for all regions, detailing how materials can be recycled, reused, or diverted. Each project nationwide has a Site Waste Management Plan, measuring all waste—recycled, donated, or sent to landfill. With over 15 years in construction, from apprentice to project manager, I recently became an environmental manager, combining my passion and industry insight to change our BAU.

Q. What information will be tracked and evaluated at completion of the project?
R. - Attendance
- Waste diversion statistic from our projects across Canterbury
- Post session survey results

Q. What are the key project risks and how will they be reduced or mitigated?
R. The biggest risk is that no one will come. However, with the market getting tighter, we will use our leverage in the industry to encourage our subbies to attend. It make good business sense to add this value to your company when tendering for work.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?
R. A risk assessment will be undertaken prior to the sessions and appropriate controls will be recorded and implemented.

Q. Will the project require any resource consent from the regional council or territorial authority?
R. No

Q. Is your activity an existing permitted activity?
R. No

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Q. Outline any circular economy principles, such as the whole lifecycle of a product.
R. PVC can be recycled back into PVC 10 times Gypsum can be crushed and returned back to the soil Glass can be recycled infinitely Hi-vis clothing can be made into Retex and used for protection on our sites It's endless really, we just need to keep finding and creating more opportunities.

Q. How does the project foster innovation?
R. By asking if participants have a drive to get started on their environmental sustainable journey.

Q. Will the project contribute towards one or more of the following?
R. - Reduction: Lessening waste generation.
- Reuse: Further use of products in their existing form for their original or similar purpose.

- Recycling: Reprocessing waste materials to produce new products.
- Recovery: Extraction of materials or energy from waste for further use or processing, including but not limited to making materials into compost.
- Treatment: Processing waste to change its volume or character so it can be disposed of with no, or reduced adverse environmental impact.

Q. How will the project contribute towards one or more of the above?

R. Education is key to implementing change. Ours is a busy industry, and many people have a desire to recycle, but don't understand how to do it, or the benefits to our planet and their business.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. Improving resource efficiency - education on best practices, highlights impact on cost and environment, encourages practices that reduce the need for new materials.

Commercial benefits - cost savings by diverting waste from landfill, it's cheaper to recycle.

Competitive advantage, demonstrating commitment to sustainability can attract clients and win more contracts. Positive public relations - reputation and trust.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R. - Remove or reduce a waste stream that may enter a waterbody?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. The grant I'm asking for is roughly \$5k, it currently costs \$265.10 per tonne to send waste to landfill. GIB is less than half that cost, hardfill half that cost again. Untreated timber is \$50 per tonne. I've recently completed a case study on one of our current projects that has a diversion rate of 46%. The project saved \$11,000.00 by recycling the 46% rather than sending it to landfill, or put another way, saved 10.38 tonnes of CO2 from entering the atmosphere.

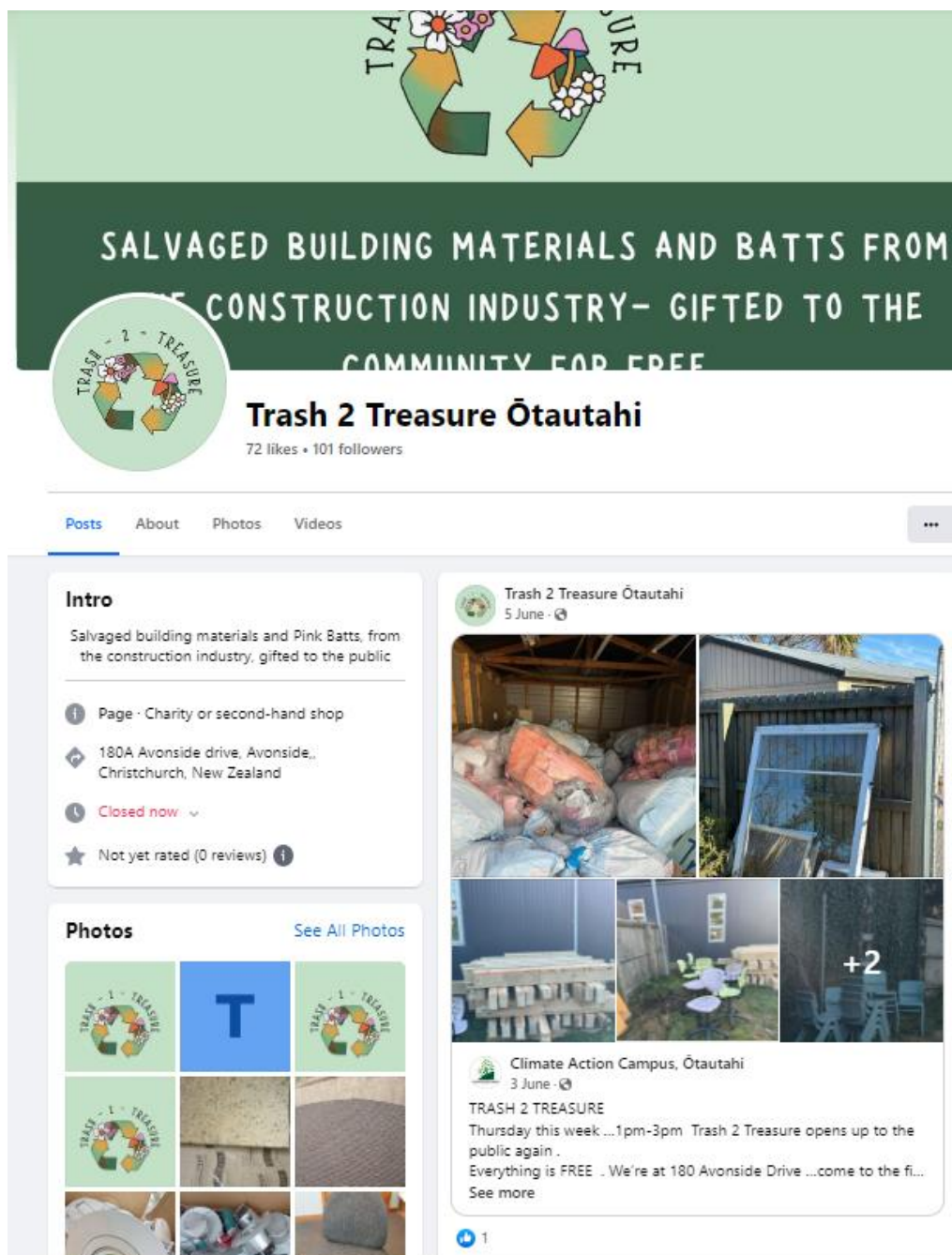
Q. Describe your ability to deliver the project and provide any relevant track record.

R. I understand the construction industry having worked in it most of my professional life, the past 16 years. Change is exceptionally difficult to implement, and you need to give people the how, and the why to make it happen. I have all the technical data to back up both of these points, now I just need a platform to get the information out there.

I've been conducting toolbox talks on our sites recently, and everyone is genuinely interested, but I need to get to reach a wider audience and talk to those in charge of making these changes part of company policy.

Q. Provide any other supporting information, such as links to websites and social media.

R. [Sustainability - Naylor Love, Commercial Construction](#)



[Community Gardens volunteer day - Naylor Love, Commercial Construction](#)

Subcontractor waste awareness sessions.xlsx (13 Kb.):

Subcontractor waste awareness sessions						
Item description	Type	Quantity	Amount	Cost A	Cost B	Notes
Venue hire	no	5	\$ 250.00	\$ 1,250.00	\$ 1,250.00	Shirley rugby club
Coffee cart	no	200	\$ 5.00	\$ 1,000.00	\$ 1,000.00	Based on 40 people attending per session
Breakfast buttie	no	200	\$ 10.00	\$ 2,000.00	\$ 2,000.00	Based on 40 people attending per session
Advertising	sum	1	\$ 200.00	\$ 200.00	\$ 200.00	Flyer
Takeaway resources	sum	1	\$ 500.00	\$ 500.00	\$ 500.00	Booklet
Session planning	hours	40	\$ 85.00	\$ 3,400.00	\$ -	Project management and planning of these sessions will be conducted free of charge by Naylor Love
Facilitating sessions	hours	15	\$ 85.00	\$ 1,275.00	\$ -	Facilitation of these session will be conducted free of charge by Naylor Love
				\$ 9,625.00	\$ 4,950.00	

Canterbury Waste Partnership list_Jan 2024 (1).pdf (232 Kb.):

Canterbury Waste Partnerships – Jan 2024

CANTERBURY WASTE RESOURCE RECOVERY PARTNERS

Company	Service	By	Circular Economy (Recovery, Recycle, Reuse)
<p>Waste Management</p> <p>Margot Hall, Key Account Manager 027 574 3336</p> <p>mhall@wastemanagement.co.nz</p>	<p>Skip bins for different wastes, also provide waste recovery reports for BraveGen.</p> <ul style="list-style-type: none"> • Hardfill • Untreated wood • Metal • Plasterboard • Carboard • PVC / PE • Polystyrene • Soft plastics • Landfill waste • Recycling combo bins • Green waste • Plastic 1, 2 & 5 (smoko shed) • Food waste (smoko shed) • Paper and document destruction • Battery bins 	SM	80%
<p>EnviroWaste</p> <p>Lee-Ann Kruger, Account Manager 021 916 985</p> <p>Lee-ann.kruger@envirowaste.co.nz</p>	<p>Skip bins for different wastes, also provide waste recovery reports for BraveGen.</p> <ul style="list-style-type: none"> • Hardfill • Untreated wood • Metal • Plasterboard • Carboard • PVC / PE • Polystyrene • Shrink wrap • Landfill waste • Recycling combo bins • Green waste • Plastic 1, 2 & 5 (smoko shed) • Food waste (smoko shed) • Paper and document destruction 	SM	80%

Company	Service	By	Circular Economy (Recovery, Recycle, Reuse)
	EnviroWaste also offer an option to their customers for general waste bins to be sent to Waste Co NZ where they go through a sort line and materials can be recovered. This is an additional cost and must be requested. General waste bins that go through the sort line will be mixed with other customers waste and data will be global.		
Waste Co NZ Tania Harris, Sales Consultant 027 825 8817 Tania@wasteco.co.nz	Skip bins for different wastes , also provide waste recovery reports for BraveGen. General waste bins that go through the sort line will be mixed with other customers waste and data will be global (generally 50% recovery). <ul style="list-style-type: none"> • Hardfill • Untreated wood • Metal • Plasterboard • Carboard • Polystyrene • Landfill waste • Recycling combo bins NOTE – all general waste bins at Waste Co go through their sort line. Always best to separate on site if you have the room as this minimises contamination.	SM	80%
Marley Christchurch 129 Shands Road, Hornby South, CHCH 0800 222 922 Hynds Hornby Hickory Place, Islington, CHCH	PVC, free. PVC Golden Rules: <ol style="list-style-type: none"> 1. Only PVC pipe, gutter and fittings. 2. Remove rubber rings, tape and packaging. 3. No heavily soiled products or products used for sewage/black water. Use a rebri form to document waste diversion: rebrl https://www.marley.co.nz/find-a-recycling-drop-off/	SM or subbie	80%

Company	Service	By	Circular Economy (Recovery, Recycle, Reuse)
<p>Dulux Trade Centre CHCH 169-171 Ferry Road CHCH 03 363 8370</p> <p>Dulux Trade Centre Roydvale 4 Sheffield Crescent, Burnside, CHCH 03 358 0760</p>	<p>Paint and paint pots. Recycle, reuse or dispose of it in an environmentally friendly manner.</p> <p>Eligible paints in original Dulux, British Paints, Berger, Cabot's Intergrain, Dryden or Feast Watson packaging can be returned free of charge. On non-Dulux group branded paints, a \$0.25 per packaging litre return and collection fee is applied.</p> <p>Plastic pails are 100% recyclable in NZ by packaging partner.</p> <p>Use a rebri form to document waste diversion: reberi</p> <p>https://www.dulux.co.nz/applicator/services/dulux-paint-take-back-service/</p>	SM, or subbie	100%
<p>Resene</p> <p>Multiple drop off points here</p>	<p>Paint and paint pots. Recycle, reuse or dispose of it in an environmentally friendly manner.</p> <p>Resene will offer good quality Resene paint to community groups for reuse, recycle packaging materials that are recyclable, send solventborne paints to solvent recovery, find alternative uses for waterborne paints, such as graffiti abatement, and dispose of the rest for you.</p> <p>Use a rebri form to document waste diversion: reberi</p> <p>https://www.resene.co.nz/paintwise.php?gad_source=1&gclid=CjwKCAiAtt2tBhBDEiwALZuhAAi8npH64YAndnffXBI7Se6PUK4lu-nfjSoictNoo51f_cdKXwwEnxoC-_AQAvD_BwE#Canterbury/WestCoast</p>	SM, or subbie	100%
<p>Nexan 27 McTeigue Road Halswell, CHCH</p> <p>Jon Elkins Key Accounts Manager 027 445 2209</p>	<p>Plastic and wooden electrical spools, free.</p> <p>Drop off and they will recycle.</p> <p>Use a rebri form to document waste diversion: reberi</p>	SM, or subbie	100%

Company	Service	By	Circular Economy (Recovery, Recycle, Reuse)
Jonathan.elkins@nexans.com	https://www.nexans.co.nz/en/Newsroom/news/details/2023/10/Nexans-commit-to-sustainable-practice-with-the-launch-of-their-Spool-Recycling-programme-.html		
Pallet Improvements 32 Dakota Crescent Sockburn 021 230 7612 03 341 1027 palletimprovements@xtra.co.nz	Pallets, free. Will pick up for free providing you have 20+ Can drop off for free at their yard. Will take plastic providing it's not broken. Will take standard pallet sizes only i.e., 1.2 x 1.2, nothing bespoke or oversized. If you're unsure, send them a photo via email and they'll let you know. Use a rebri form to document waste diversion: reبری http://www.palletimprovements.co.nz/index.html	SM	90%
Plasback https://plasback.co.nz/ Ross Willis 027 492 6795 rwillis@plasback.co.nz	Soft plastics Buy a Plasback bin for your site, or get one off Waste Management. <ul style="list-style-type: none"> • Damp proof membrane • Timber framing wrap, plastic only, not woven • Any type of coloured packaging plastic you can put your finger through e.g., pink batt bags • Shrink wrap • Bubble protection • Fit out protection • Protective plastic film e.g., off roofing iron Use a rebri form to document waste diversion: reبری	SM	100%
SaveBoard www.saveboard.nz Dave Elder 022 392 6390 dave@saveboard.nz	Soft plastics Use their products on your site and they will take all off cuts and soft plastics from your site and make more products with them. Use a rebri form to document waste diversion: reبری	SM/QS/PM	100%

Company	Service	By	Circular Economy (Recovery, Recycle, Reuse)
<p>Shrink wrap</p> <p>Nick Shah 020 443 3555 nick@shrink-wrap.co.nz</p>	<p>Shrink wrap recycling</p> <p>Shrink wrap removed from site is delivered to Mainland Recycling who use it to produce plastic pallets, wheelie bins, PE irrigation pipes, communication pits. https://www.shrink-wrap.co.nz/recycling_program</p> <p>Use a rebri form to document waste diversion: rebri</p>	SM	100%
<p>SR Solutions</p> <p>Chris Grant 027 577 6588 chris@5rsolutions.co.nz</p>	<p>Glass circular economy / recycling. Done in NZ (not sent overseas) https://www.5rsolutions.co.nz/about-1</p> <p>All types of glass. Demo projects, refurbis, or broken window panes. Remade into pink batts, pool and effluent filtration systems, etc.</p> <p>Use a rebri form to document waste diversion: rebri</p>	Site team	100%
<p>Naylor Love</p> <p>Jon Douglas 021 405 217 Jonathon.douglas@naylorlove.co.nz</p>	<p>Hard hats</p> <p>Call Jon or Jacinto or give them your hard hats if they are visiting site. Make sure you remove the harness, earmuffs, stickers, and any other attachments. Lads will drop off to Safety and Apparel who recycle for free.</p> <p>Use a rebri form to document waste diversion: rebri</p>	ALL	100%
<p>Naylor Love</p> <p>Jon Douglas 021 405 217 Jonathon.douglas@naylorlove.co.nz</p> <p>Michela Grobler 021 830 248</p>	<p>Naylor Love branded clothing</p> <p>Drop off to Jon at the yard, or Michela at the office. Clothing then sent to Auckland and made into soft protection for site which you can buy back.</p> <p>Textile Products Bob Wills</p>	ALL	100%

Company	Service	By	Circular Economy (Recovery, Recycle, Reuse)
Michela.grobler@naylorlove.co.nz	bob@textile.co.nz Use a rebri form to document waste diversion: rebri		
Oji Fibre Solutions 85-89 Shands Road, Hornby 03 349 4434	Cardboard recycling. Done in NZ (not sent overseas) https://ojifs.com/ Use a rebri form to document waste diversion: rebri	SM	90%
Expol Cameron Brooks Cameron.brooks@expol.co.nz Deliver to: 10 March Place Belfast Christchurch 03 578 4874	Polystyrene recycling. https://www.expol.co.nz/expol-recycling-process/ Clean and dry polystyrene. Made into waffle floor pods, underfloor insulation, and green beads for filling bean bags. Cost: free to drop off. Contact Cameron for pick up. Use a rebri form to document waste diversion: rebri	Site team & office	100%

Habitat for Humanity https://habitat.org.nz/about-us/ Stephen Roach 027 546 1176 Stephen.roach@habitat.org.nz	Material Recovery Use spare materials for their projects, or will look at any spare materials to be sold in their shops to generate funding for their renovation house scheme in Christchurch / Nationwide Use a rebri form to document waste diversion: rebri	SM/P A	100%
Ecodrop https://ecocentral.co.nz/ecodrops/what-we-accept?id=reusable	Material Recovery Accept a wide array of materials; roofing product, mdf sheets, timber products, fencing and gates, nails and bolts, doors & windows, paint, tools, etc. Check out their website: https://ecocentral.co.nz/ecodrops/what-we-accept?id=reusable Use a rebri form to document waste diversion:	SM	100%

	rebri		
Toner Recycling Ricoh 0800 80 76 76 eservice.ricoh.co.nz	Printer toner cartridges Ricoh responsible waste management. Will courier out a box to put your used toner cartridges in, call for pick up Use a rebri form to document waste diversion: rebri	PA	100%
Community gardens	Material Recovery Take timber offcuts, soil, hardfill, old building materials. Check out the Canterbury Community Gardens website to find your nearest community garden: http://www.ccca.org.nz/ Use a rebri form to document waste diversion: rebri	SM	100%
Menz Shed NZ	Material Recovery Take old building materials / off cuts and make items for the community, including community gardens. Check out the Menz Shed NZ website to find your local contact: https://menzshed.org.nz/canterbury-region/ Use a rebri form to document waste diversion: rebri	SM	100%
Facebook Groups	Material Recovery Sell or give away old building materials / off cuts / etc. Surplus building/ex demo materials NZ Buy sell and trade CHCH Canterbury Buy/Sell/Trade Use a rebri form to document waste diversion: rebri	SM/ QS	100%
Subs Take Away Own Waste	Negotiate with subs to take away their own waste. Paint pots back to supplier Pallets Write this into the Subcontract Special Conditions	SM/ QS/P M	100%
Chemical Waste	Ensure you engage the sub-contractor to remove the oversupply of chemicals safely off site THEMSELVES	SM	0%

Canterbury Resource Sorter Guide.pdf (2517 Kb.):

Emma Williamson.pdf (73 Kb.):



Emma Williamson

Environmental Manager

Qualifications & Achievements

Diploma of Construction Management
Leadership in Sustainable Business Course
Green Star Accredited Professional, NZ Green Building Council
Site Safe Gold Supervisor

Referee

Phil Bunnage
Project Manager, Orion Group
T. 027 535 2690
E. phil.bunnage@oriongroup.co.nz

Skills & Experience

Emma joined Naylor Love in 2016 as a project manager and has experience in both project management and sustainability management, earning her the title of our resident "greenie." She leads the Canterbury Sustainability Committee and has focused her studies on advancing Naylor Love's Sustaining 4 Key Result Areas.

As an environmental manager, Emma work proactively with site teams to establish and maintain environmental systems and procedures to meet specific requirements such and ensure that reporting is provided in a consistent and effective manner. She looks for new trends and provide leadership across the Canterbury region to support and develop the Environmental capabilities. She works closely with the wider project teams to identify and implement best practice waste reduction stream tailored for each sites and ensure there is a practical and effective waste management solutions and develop a sustainable construction delivery process.

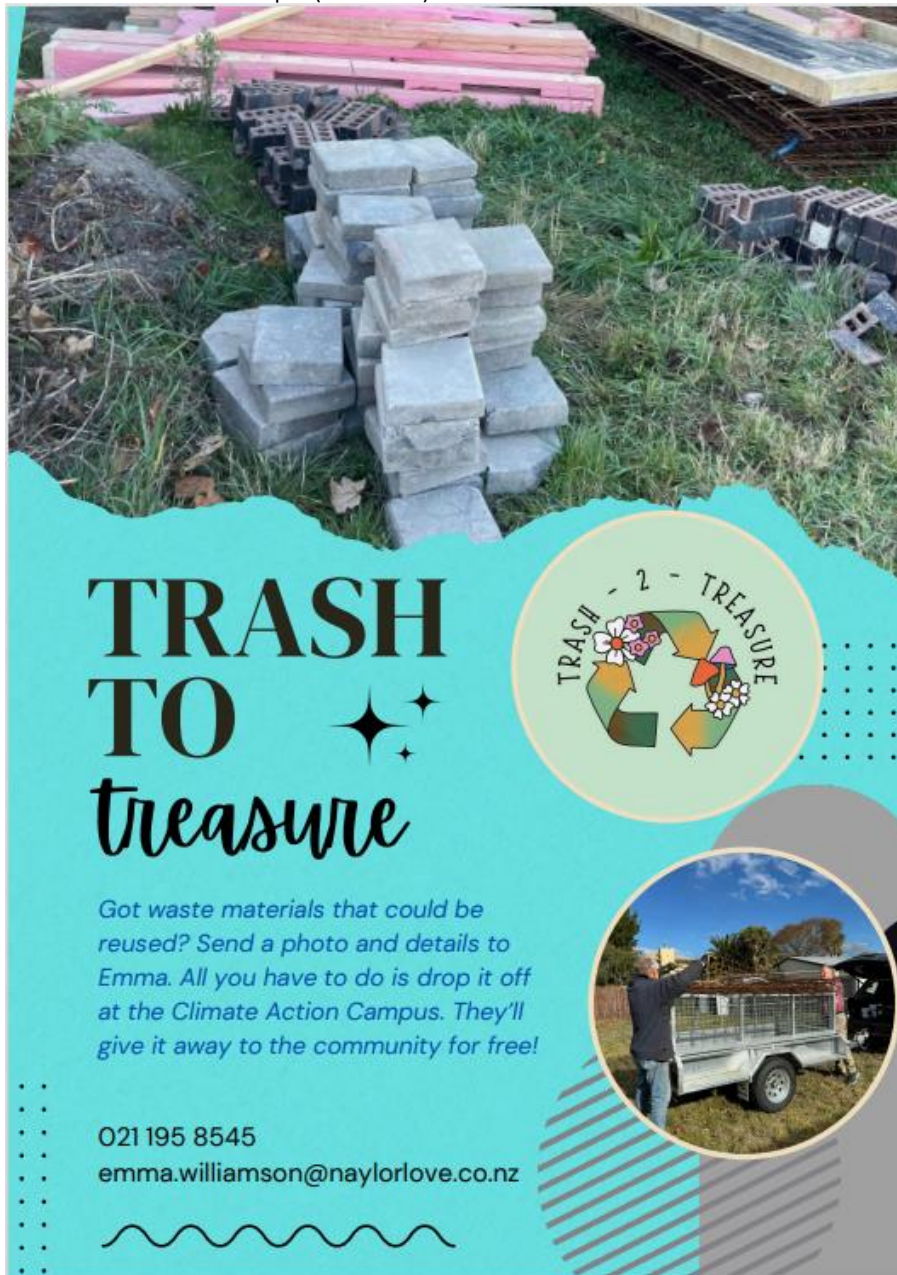
She has Emma is recognised for her strong leadership qualities. She is passionate about sustainability and health and safety on site, encouraging team engagement in a proactive sustainable culture.

Previous Projects

Implementation of BraveGen, a reporting system to capture waste statistics across our Canterbury sites
Development and implementation of Naylor Love Waste and Diversion Reporting
Development of Waste Management Partners
Implementation of Office waste management across our sites
Emission reports and measurements
Environmental SWOT (Strengths, Weakness, Opportunities, Threats) Analysis for business planning
Sustainable materials whole-of-life cost studies and implementing sustainable procurement practices



Trash 2 Treasure Ōtautahi.pdf (12664 Kb.):



Item 7

Attachment F

Canterbury - Sustainability Committee.pdf (2376 Kb.):



Item 7

Attachment F

BraveGen presentation_trade team.pdf (1424 Kb.):



Item 7

Attachment F

Waste Management and Recycling Policy

Naylor Love Enterprises Ltd is committed to ensuring our construction activities demonstrate social and environmental responsibility by treating waste as a resource, with disposal the last possible resort.

The Company will:

- Implement a Waste Management Plan on all our sites and offices.
- Take advantage of all opportunities to reuse and recycle construction materials.
- Minimise waste through good project planning and site management practices.
- Implement site practices that will not be detrimental to the environment.
- Promote our aims to ensure a high level of waste management and a desire to recycle and re-use materials where practical.
- Promote this policy throughout the Company and ensure that all staff receive training appropriate to their roles and responsibilities.
- Provide for regular review and improvement of our Waste Management and Recycling Policy and procedures.
- Engage with all contractors about our Waste Management and Recycling Policy and procedures and contract them to work within its terms.
- Ensure waste implications are considered in the procurement of goods, services and equipment.
- Audit our waste management practices, establish targets and monitor our performance against them.



Trevor Kempton
Chair - Board of Directors



Rick Herd
Chief Executive Officer

Project start up – what's the process?

Waste and Diversion Reporting

Project requirements for setup in BraveGen

Please complete this form and email to jennie.watkins@naylorlove.co.nz, copying in your regional Environmental Manager.

Project number:	
Project name:	
Project address:	
Project Manager:	
Project start date:	
Expected completion date:	
Diversion Target (min 70%):	
Person responsible for upload of waste data for the project:	
Name:	
Email:	
Training required?	Yes / No <small>Please contact your regional Environmental Manager if training is required.</small>

All invoices, reports, receipts etc. related to the various waste streams are to be filed by month in Procore under Health Safety and Environment/Waste Management Plan/Waste Recycling Reports. This is where the person nominated on this form will go to find waste data to upload to our emission software.

Sustainability Report

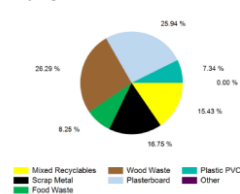


March 2023 Naylor Love Construction Ltd - WM1004030

Recycling Breakdown per Material Profile

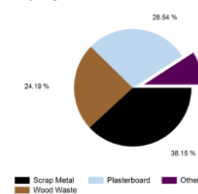
March 2023		
Material Profiles	Spend (\$)	Spend (%)
Wood Waste	\$298	26.29%
Plasterboard	\$204	25.94%
Scrap Metal	\$190	16.75%
Mixed Recyclables	\$175	15.43%
Food Waste	\$94	8.25%
Plastic PVC	\$83	7.34%
Total	\$1,134	100.00%

March 2023: Spend (\$)
Recycling Breakdown



March 2023		
Material Profiles	Weight (t)	Weight (%)
Scrap Metal	2.460	38.15%
Plasterboard	1.840	28.54%
Wood Waste	1.560	24.19%
Food Waste	0.266	4.13%
Mixed Recyclables	0.172	2.67%
Plastic PVC	0.150	2.33%
Total	6.448	100.00%

March 2023: Weight (t)
Recycling Breakdown



Weight					
Year	Month Name	Parent Customer Code/Name	Child Customer Code/Name	Customer Group	Address
2023	June	EC0000216551 Naylor Love Co.	EC0000350661 Naylor Love Co.	All	All
		Waste Type Group		Container Type/Size	Waste Description
		Landfill			
		Recycling			
		Gantry bin 3.5m		Hardfill	14,440
		Gantry bin 7.5m		Metal	67,220
		Wheelee bin 120 litre		Organic	1,780
		Wheelee bin 240 litre		Co-mingled	0,440
		Wheelee bin 660 litre		Paper	0,070
		Wheelee bin 660 litre		Co-mingled	0,050
		Total			69,660
		Total			84,100

Waste reports





REBRI WASTE TRANSFER FORM							
Waste generator:		Postal address:					
Project name/code:		Site address:					
Contact name:	Phone number:	Fax number:		Signature:			
Waste source:		<input type="checkbox"/> Construction		<input type="checkbox"/> Demolition		<input type="checkbox"/> Landscaping	
						<input type="checkbox"/> Infrastructure	
WASTE TYPE	Estimated quantity (m ³ or 100 kg)	Proposed end destination					
		Landfill	Cleanfill	Recycle/process/ manufacture	Reuse	Energy/ incineration	
Plastics							
1. Type 1: PET or PETE (polyethylene terephthalate)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Type 2: HDPE (high density polyethylene)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Type 3: PVC or V (polyvinyl chloride)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Type 4: LDPE (low density polyethylene)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Type 5: PP (polypropylene)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Type 6: PS (polystyrene)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Type 7: Other (acrylic, acrylonitrile butadiene styrene, fibreglass, nylon, polycarbonate, and polylactic acid)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals							
8. Aluminium		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Steel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Brass		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Copper		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Various		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concrete/masonry							
13. Part blocks/rubble		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Part bricks/pavers/tiles/pipes		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Timber							
15. Untreated		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Treated		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Native		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plasterboard							
18. Damaged sheets		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Offcuts		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REBRI Waste Transfer Forms

Estimated weights - Branz



Estimated weight per cubic metre for different material types

	Weight in kilograms										
	1 m³	2 m³	3 m³	4 m³	5 m³	6 m³	7 m³	7.5 m³	8 m³	9 m³	10 m³
Wood	178	356	534	712	890	1,068	1,246	1,335	1,424	1,602	1,780
Wood sheet	200	400	600	800	1,000	1,200	1,400	1,500	1,600	1,800	2,000
Cardboard	38	76	114	152	190	228	266	285	304	342	380
Plasterboard	238	476	714	952	1,190	1,428	1,666	1,785	1,904	2,142	2,380
Mixed/other	225	450	675	900	1,125	1,350	1,575	1,688	1,800	2,025	2,250
Metal	63	126	189	252	315	378	441	473	504	567	630
Paper/plastic	38	76	114	152	190	228	266	285	304	342	380
Concrete	900	1,800	2,700	3,600	4,500	5,400	6,300	6,750	7,200	8,100	9,000
Sweepings	208	416	624	832	1,040	1,248	1,456	1,560	1,664	1,872	2,080

Christchurch project data for 2023

Show 12 months to the end of Dec 2023 [Update dashboard...](#)

Emission Sources Emission Trends

Emissions by Source

INVENTORY NAME	TONNE CO2E	QUANTITY	COST
SCOPE 0			
Waste - Clean landfill/rubble (kg)	0.00	0.00	\$0.00
Waste - Clean landfill/rubble (t)	0.00	1,164.92	\$0.00
Waste - Demolition trade diverted (kg)	0.00	0.00	\$0.00
Waste - Demolition trade diverted (t)	0.00	0.00	\$0.00
Waste - Diverted for reuse (kg)	0.00	0.00	\$0.00
Waste - Diverted for reuse (t)	0.00	333.44	\$0.00
Waste landfilled LFGR Mixed waste - Projects (kg)	0.00	0.00	\$0.00
Waste landfilled LFGR Mixed waste - Projects (t)	198.66	857.12	\$0.00
Waste Recycled - Comingled (kg)	0.00	0.00	\$0.00
Waste Recycled - Comingled (t)	0.00	24.56	\$0.00
Waste Recycled - Green waste (inc food) (kg)	0.00	0.00	\$0.00
Waste Recycled - Green waste (inc food) (t)	0.00	5.93	\$0.00
Waste Recycled - Metal (kg)	0.00	0.00	\$0.00
Waste Recycled - Metal (t)	0.00	59.96	\$0.00
Waste Recycled - Plastic (kg)	0.00	0.00	\$0.00
Waste Recycled - Plastic (t)	0.00	2.84	\$0.00
Waste Recycled - Polystyrene (kg)	0.00	0.00	\$0.00
Waste Recycled - Polystyrene (t)	0.00	1.53	\$0.00
Waste Recycled- GIB (kg)	0.00	0.00	\$0.00
Waste Recycled- GIB (t)	0.00	50.88	\$0.00
Waste Recycled- Timber (kg)	0.00	0.00	\$0.00
Waste Recycled- Timber (t)	0.00	90.06	\$0.00
	198.66	2,591.23	\$0.00

Item 7

Attachment F

BraveGen Entry



Smart Form: 61095 Burnside High School Block 1 and PUDO

This form is intended for: **Sam Clark** [Not Sam Clark?](#)

For assistance with this form please contact: Emma Williamson emma.williamson@naylorlove.co.nz 021 195 8545

Landfilled LFGR Mixed waste (t) (IN0155445)

Jan 2024 tonnes Comments (Optional)

Attach files for January 2024

Select

Select files to upload .pdf, .gif, .jpeg, .jpg, .png, .doc, .docx, .xls, .xlsx

Clean hardfill/rubble (t) (IN0155442)

Jan 2024 tonnes Comments (Optional)

Attach files for January 2024

Select

Select files to upload .pdf, .gif, .jpeg, .jpg, .png, .doc, .docx, .xls, .xlsx

Demolition trade diverted (t) (IN0155443)

Jan 2024 tonnes Comments (Optional)

Attach files for January 2024

Select

Select files to upload .pdf, .gif, .jpeg, .jpg, .png, .doc, .docx, .xls, .xlsx

Diverted for reuse (t) (IN0155444) e.g given to community organisations

Jan 2024 tonnes Comments (Optional)

Attach files for January 2024

Select

Select files to upload .pdf, .gif, .jpeg, .jpg, .png, .doc, .docx, .xls, .xlsx

Item 7

Attachment F

What does 198.66 tonnes of CO₂ emissions look like?



44.2 gasoline powered
passenger cars being driven for one year

To sequester 198.66 tonnes of carbon



You would need to plant 3,285 tree seedlings and
let them grow for 10 years

Questions?

Item 7

Attachment F

Q. Legal entity name
R. Project Lyttelton Incorporated

**Contact details in applications retracted – request from CWJC administrator.*

Q. New Zealand Business Number (NZBN), if relevant R. 9429042809371

Q. First name
R. Jacqueline

Q. Last name
R. Newbound

Q. Position
R. General Manager

Q. First name
R. Jacqueline

Q. Last name
R. Newbound

Q. Total cost of project (\$)
R. \$30,000

Q. Amount requested from committee (\$)
R. \$23,400

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.
R. In house support and contribution from Project Lyttelton and Te Puna Auaha

Page 2 of 3 (2/3)

Q. Start date.
R. 01/10/2024

Q. End date.
R. 30/09/2025

Q. Location:
R. A specific region

Q. What region is your project area?
R. Lyttelton and the Whakaraupo Harbour

Q. Provide a high-level overview of the project and the key outcomes.
R. The Project Lyttelton Garage Sale has been operating since 2012 and receives household goods and textiles from the Lyttelton Harbour community to resell, repair and donate to other groups generating income for other projects and create employment opportunities. Out of The Garage Sale evolved The Lyttel Sew & Sews group to clean, repair, up-cycle and repurpose textiles that would otherwise go to landfill.
This project represents a collaboration for Project Lyttelton through joining forces with new kid on the block Te Puna Auaha – which is a makerspace that houses the Lyttelton Library of Tools and Things, originally incubated by Project Lyttelton, and has large workshop equipment so people can

make and create on a much larger scale involving lathes, woodworking and other machinery. Te Puna Auaha is also going to hold workshops so people can learn new practical skills.

- While textile waste will continue to be repaired and repurposed by the Lyttel Sew & Sews, Te Puna Auaha will do the same service for household items and will allow bulkier household items to be dropped off and up-cycled for the purpose of being sold and diverting waste.
- In addition, workshops will be held at PL (for textiles) or at Te Puna Auaha (for other items) so people can learn how to take items that would otherwise be going to landfill (and have been dropped off for the Garage Sale) and learn how to repurpose them for their own use or for gifting.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Last year an estimated volume figure extrapolated from the measured waste figure is that The Garage Sale recirculated 76 tonnes of donated goods, redirected to other groups 11,000 tonnes and unfortunately took 4 tonnes to Eco drop.

This project will be able to increase the diversion from landfill from goods dropped off to the Garage Sale and also give people the skills to learn how to upcycle goods from their own home that may have ended up going to landfill

Q. Detail any other environmental and/or community benefits associated with this project.

- R. • Wellbeing and intergenerational connection by providing safe and inclusive spaces where people share and learn new skills
- By taking what appears to be a “waste” textile or broken item and repairing it or adding value to it the item’s life span is increased
 - Developing a resourceful culture where people find ways of not throwing out items because they no longer want them or they are a bit broken
 - Lets get our community excited and taking part in action that actually reduces waste now and into the future.

Q. Outline the key project stages or milestones.

- R. • Launch of a workshop series where people learn to upcycle and repurpose and repair
- Launch of a retail outlet to sell the upcycled/repurposed items and can provide a small ongoing income for Project Lyttelton and Te Puna Auaha
 - Creation of video to be shared with wider Canterbury

Q. Outline the governance structure for the project.

- R. • Project Lyttelton is an incorporated society and Charitable Trust with a volunteer Board of 6 people who provide a high level governance and financial oversight. The project will be managed by Jacqueline Newbound (General Manager of Project Lyttelton and Te Puna Auaha Trust Board).

Q. What are the measures of success?

- R. • Lyttel Sew & Sews begins to run educational workshops around soft textile and fast fashion concentrating on re-learning basic repair and reuse skills
- Te Puna Auaha begins to run educational workshops about repurposing and upcycling large items as well as utilizing the resources of their metal and wood workshops to build and repair.
 - The Garage Sale increases the amount of goods it diverts from landfill through these activities
 - A retail outlet is opened to compliment the Garae Sale and increase goods directed and recycled.
 - The Lyttelton Community Garden, The Garage Sale and the Farmers Market increase awareness of waste reduction projects

Q. Who are the key stakeholders?

R. Project Lyttelton, Te Puna Auaha, volunteer upcyclers, re-purposer's, and repairers.
Other Community groups and individuals interested in a similar project.

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. ● Lyttel Sew & Sews is already an established volunteer group and there is a group of volunteers involved with Te Puna Auaha to draw on for other goods aside from textiles.

- Te Puna Auaha has space that could be used as a small retail outlet once it has been organized or another space or pop up arrangement could be utilized depending on the goods.
- Project Lyttelton currently operated a waste programme within the Lyttelton Farmers Market, run the Garage Sale and compost waste in the Lyttelton Community Garden.

Q. What information will be tracked and evaluated at completion of the project?

R. ● Amount of items dropped off to Garage Sale or Te Puna Auaha diverted from landfill

- Number of workshops and people attending workshops
- Anecdotal and feedback forms

Q. What are the key project risks and how will they be reduced or mitigated?

R. ● Workshop equipment can be dangerous if used by people who have not used it before. All people using the equipment for workshops will have a H&S briefing and be supervised by a knowledgeable person.

- Disagreement between Project Lyttelton and Te Puna Auaha about revenue and cost sharing. An MOU will be drawn up at the start of the project with clear agreement on this.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. ● Anyone using workshop equipment will be supervised by a knowledgeable person

- All workshop attendees (for Te Puna Auaha) will be told about risks of using machinery and how to minimise these risks
- Our repairers use protective gear when necessary
- The coordinator will develop an H&S plan for workshops

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. Yes

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Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. The Garage Sale and Lyttel Sew & Sews are good examples of a circular economy in action as it keeps items being used at a higher value level than if they are recycled, for example. They also divert waste from landfill and create a culture of resourcefulness. To support this work we need to give opportunities for our community to re-learn the skills to reuse and repair in their own homes.

Q. How does the project foster innovation?

R. Up-cycling and repurposing are great examples of innovation as the creator needs to think of new ways to add value to an existing product and or repair it to make sure it is still usable. We need innovative thinking to stop the "we can use it if we can recycle it" thinking and really move towards a circular "if it cant be composted then we need to look for an alternate" culture.

Collaboration between local grassroots organizations is an innovative way to reach a far large sector of the community than possible for one organisation alone by combining different skills and resources.

People need to re discover the basic skills that as a generation are being lost - without these skills new and innovate uses or inventions will not be as possible.

- The launch of a shop to sell items that have had value added to them is a new activity for PL

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

Q. How will the project contribute towards one or more of the above?

R. This project will reduce the amount of waste generated and encourage reused by taking items that would have had to go to landfill without further intervention and making sure they get a new life so can be reused

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. The project will turn waste items into items that still have value and can be sold to bring in an income for two community organizations.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R. - Reduce illegal dumping or stockpiling of wastes?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. The project draws on volunteers so is very cost- effective and also uses materials that doesn't need to be bought new so again very low cost. A coordinator needs to be paid to enable consistent hours are dedicated to the project and it runs smoothly.

Based on the last year figure for the Garage Sale it would represent a historic cost per kg of \$250 per tonne (\$23,400/91 tonnes) - however this project is looking to increase the amount of waste out of landfill so will be far less after the year of planned activities.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. • Project Lyttelton's track record speaks for itself. having run a variety of community based projects and events in Lyttelton for over 20 years The Garage Sale has run for 12 years and brings in an income of \$70,000 which is used to fund the Community Garden and other PL projects. The Lyttel Sew & Sews has been running for 18 months. Project Lyttelton and Te Puna Auaha has successfully managed the Lyttelton Library of Tools and Things since 2018.

Q. Provide any other supporting information, such as links to websites and social media.

R. Project Lyttelton

[Project Lyttelton | Community Focussed | 54A Oxford St, Lyttelton, New Zealand](#)

All projects have their own Facebook and Instagram pages

Budget Project Lyttelton Te pua Auraha project budget May 2024.xlsx (11 Kb.):

Item	Cost per hour or unit	Total units or hours	Sub total
		15 hours per week for 52 weeks of year	
Wages for coordinator	\$30	(includes 4 week holiday leave)	\$23,400
Materials	TBC		\$2,000
Video and editing	TBC		\$4,000
Mileage to attend meetings in other Canterbury communities	TBC		\$600
			30,000

0

Te Puna Auaha supporting letter.docx (51 Kb.):

7 Norwich Quay

Lyttelton

12 May 2024



Letter of Support for Project Lyttelton's application to the Canterbury Joint Waste Fund

Te Puna Auaha (makerspace) view Project Lyttelton as our ~~tuakana~~ – older sibling. Their important role in the Lyttelton Harbour Community is visible and sustained. What would Lyttelton be without the weekly Farmer's Market, the Garage Sale and other initiatives that have provide essential at times of need (such as the Lyttelton Timebank).

We are excited to be at the point in our project where our space is operational and we are very keen to work with Project Lyttelton to complement each other and expand the opportunity to divert waste from landfill and inspire creativity in our community.

With the expertise of Project Lyttelton and the tools and space of Te Puna Auaha, we believe this project will be the beginning of a long-term relationship where the two organisations can play on our respective strengths and provide more opportunities to our community, as well as inspiring communities from wider Canterbury.

Ngā mihi

Paul Dietsche

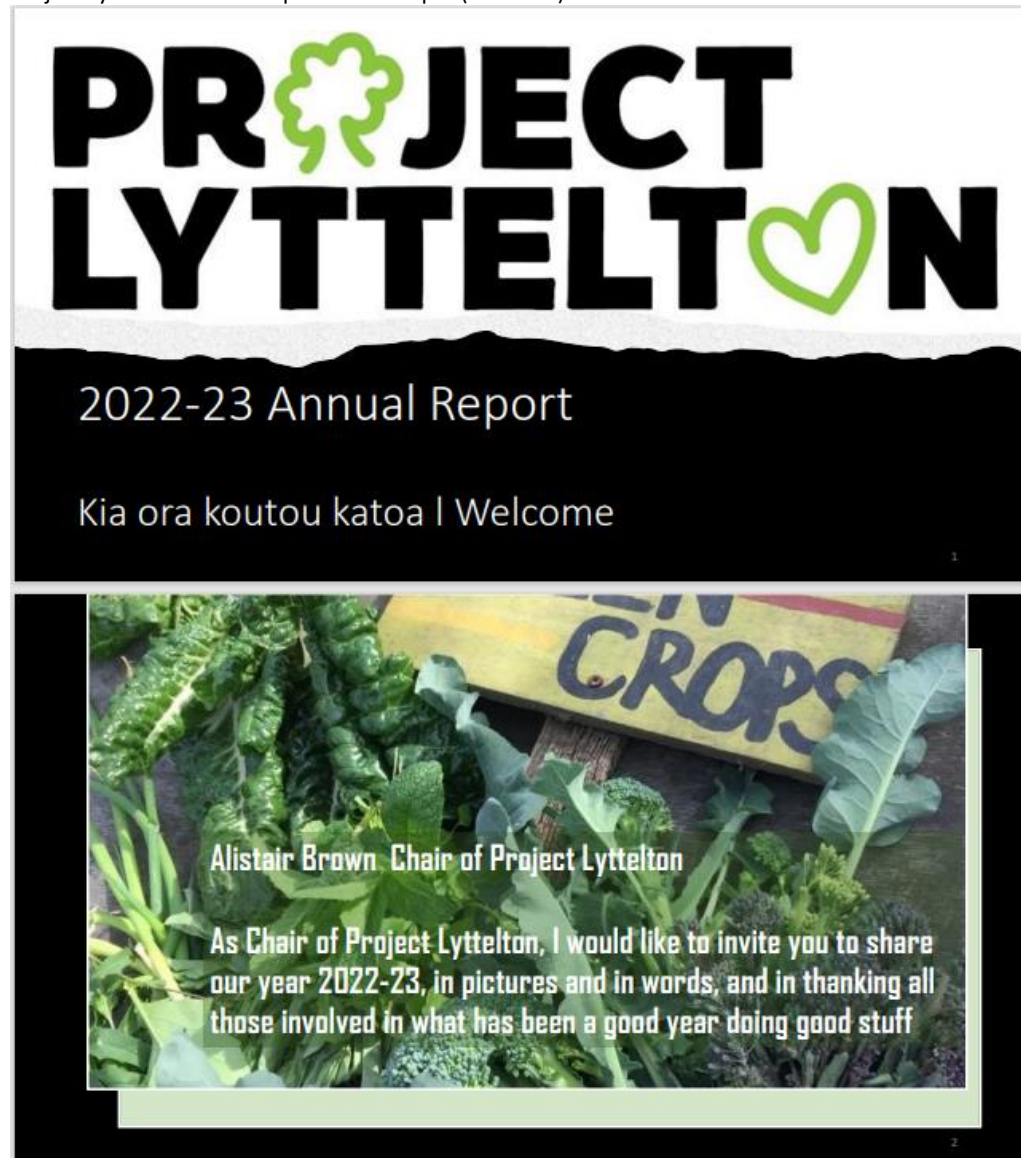
Paul Dietsche

Chair of Te Puna Auaha

Item 7

Attachment G

Project Lyttelton Annual report 2022-23.pdf (6350 Kb.):



Item 7 Attachment G

Report from the Chair

2022-23

This year our established projects went from strengthen to strength:

- **The Barge Sale** - This year we saw an increase in donations, enabling repurposing and upcycling of goods and reducing landfill. Almost \$11,000 was donated to local community groups and services from Saturday trading and 1100 boxes of goods was distributed to other organisations across Christchurch. Many thanks to Velde, Sandy, Jan, Claire and the wonderful Barge Sale team.
- **The Lyttelton Farmers Market** - The Farmers Market continues to be a popular Saturday morning event for the Lyttelton, and wider community attended by an average of 1,400 people each market. This year the talented musicians have been gratefully sponsored by local architect company Bull O'Sullivan. Thanks to Claire, Duncan, Nico, Karen, Bernard and the FM team.
- **Community Garden** - The Community Garden continues to thrive with a growing group of volunteers. Enthusiasm from families in the garden and involvement with the school has prompted the development of the new Childrens Community Garden. The weekly Wednesday shared lunch get together is very popular. Thanks to Felicity, Sue Ellen, Amelia and the green fingered volunteers.
- **Time Bank** - Time Bank has migrated to a new updated software product providing a fresh experience for how people connect in 2023. Many thanks to Skye for her work on this and the many other things she does for Project Lyttelton and the community.
- **Lift Library** - The Lift Library has relocated this year to the information centre, exciting plans are being made to have books available in more locations around Lyttelton. Many thanks to Juliette.
- **Affordable Fruit and Veg** - each week this small, dedicated team of volunteers makes available a bag of affordable produce. A huge thank you to Wendy, Jan and Bob.

New Projects we started this year included:

- **40 Winchester Street** - Project Lyttelton is now leasing this from the Methodist Church and it is providing a great community space and meeting venue. Each week it is the collection point for the weekly fruit and vegetable service as well as a meeting venue for the Mothers and Babies Group, Dance groups, Choir any many others. Thank you to John for everything he contribute to this project this year.
- **Lyttel SewSews** - A very popular and growing group of talented people repairing and repurposing Barge Sale clothing donations and much more. Thanks Roz, Sue Ellen, Anne and volunteers.
- **The Resilience Hub and Community Carbon Coach** - an innovative project looking to offer advice to Lyttelton residents on ways to reduce their carbon footprint and The Resilience Hub that came out of the project with a new concept being developed in consultation with local businesses and organisations as a resource to be available in times of emergency. Thanks Felicity and Helen.

Providing Support and Skills - This year Project Lyttelton has acted as an Umbrella Organisation for other events and projects: Materiki- a three-day festival working alongside Maui Stuart, James Cameron and many others. The visiting Service- a pilot scheme offering a visiting service to senior or vulnerable members of the local community, the Festival of Action - microplastics workshop, The Biodiversity Project- looking to administer a project employing a botanist to conduct a audit of flora and fauna in the harbour area.

We had a new look with an updated logo and signage, a focus on social media presence and a new community newsletter thanks to Skye. We greatly appreciated the recognition of a Civic Award from Christchurch City Council presented by Mayor Phil Matherell. I would also like to thank Rachel Jeffries for her time and commitment to the Board of Project Lyttelton having stepped down as chair in April this year. I would also like to thank my fellow Board members and finally a massive thank you to Project Lyttelton's General Manager Jacqueline Newbound for the incredible work she does and support she continues to provide.



Thank you - Al Brown



Treasurers Report for Year Ended 31 March 2023

It is my pleasure to present to members my report on the finances of Project Lyttelton.

Overall, the year returned a small deficit of \$11,592 (due largely to a reduction in expected grant income) and reflects the hard work put into the Farmers Market and the Barage Sale this year, collectively returning \$42,819 in net revenue despite the increased costs of traffic management. The Farmers Market has started to recover from the extremely tight 2021/2 year. This, combined with the level of grant funding and sponsorship we did receive, has enabled Project Lyttelton to invest in a number of new and exciting projects, including 4U Winchester Street, the Resilience Hub, Lyttel SewSSews and support Project Mataatiki (amongst others). We have been able to increase wages paid to our small team of paid staff, in line with inflation and our obligations as living wage employers.

The detailed notes to the Financial Statements* reflect a high-level report on the financial impact of each individual project as well as the overall management of Project Lyttelton itself and prior year adjustments made at the year end. Project Lyttelton's balance sheet remains strong, with \$109,804 in net assets. However, we need to be aware that this is less than the level of grant funding we receive for 1 year. We are therefore very dependent on this continuing level of grant funding. Our balance sheet has set aside clearly as Receipts in Advance, all monies we have been paid for work yet to be done – this year amounting to over \$70,000.

I wish to extend the Board's sincere thanks for the continued support of our many volunteers and from our funding organisations. With their continued support we can look forward to a similarly effective year ahead.

Mike Johnson - Treasurer Project Lyttelton

*Full financial report 2022-23 is attached as separate report

4



Plenty to Share

Welcome to Project Lyttelton from the PL Team

"A picture is worth a 1,00 words"
and in this year's Annual Report we look to share 63,000 words through our pictures to tell our stories from 2022-23.

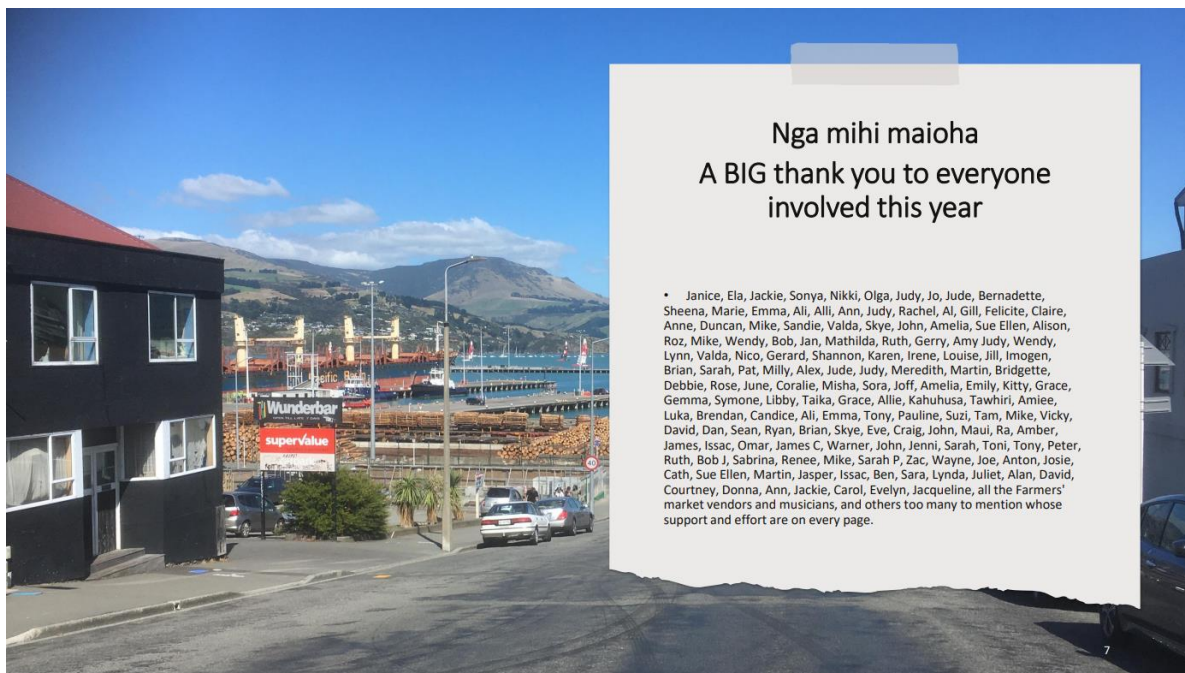
These stories reflect the huge amount of work, laughter, planning, nerves, discussion, management, funding and thought as well as a few setbacks, frustrations and things that didn't go to plan from a truly amazing group of people.

Project Lyttelton is the sum of its people, some paid but mostly not, that look for positive, practical and sustainable actions that we can do here in Whakaraupo to support a resilient future for everyone in a changing and challenging world.

The Lyttelton Community and Childrens Garden | LIFT Library | Affordable Fruit and Veg | The Garage Sale | Lyttelton Farmers Market | Welcome Bags | 40 Winchester Street | Time Bank2.0
The Lyttel SewoSews | The Rubbish Hunt | The Community Carbon Coach | The Resilience Hub

Ngā mihi maioha

Jacqueline Newbound
General Manager on behalf of the Project Lyttelton Team



Nga mihi maioha A BIG thank you to everyone involved this year

• Janice, Ela, Jackie, Sonya, Nikki, Olga, Judy, Jo, Jude, Bernadette, Sheena, Marie, Emma, Ali, Alli, Ann, Judy, Rachel, Al, Gill, Felicite, Claire, Anne, Duncan, Mike, Sandie, Valda, Skye, John, Amelia, Sue Ellen, Alison, Roz, Mike, Wendy, Bob, Jan, Mathilda, Ruth, Gerry, Amy, Judy, Wendy, Lynn, Valda, Nico, Gerard, Shannon, Karen, Irene, Louise, Jill, Imogen, Brian, Sarah, Pat, Milly, Alex, Jude, Judy, Meredith, Martin, Bridgette, Debbie, Rose, June, Coralie, Misha, Sora, Joff, Amelia, Emily, Kitty, Grace, Gemma, Symone, Libby, Taika, Grace, Allie, Kahuhua, Tawhiri, Amiee, Luka, Brendan, Candice, Ali, Emma, Tony, Pauline, Suzi, Tam, Mike, Vicky, David, Dan, Sean, Ryan, Brian, Skye, Eve, Craig, John, Maui, Ra, Amber, James, Issac, Omar, James C, Warner, John, Jenni, Sarah, Toni, Tony, Peter, Ruth, Bob J, Sabrina, Renee, Mike, Sarah P, Zac, Wayne, Joe, Anton, Josie, Cath, Sue Ellen, Martin, Jasper, Issac, Ben, Sara, Lynda, Juliet, Alan, David, Courtney, Donna, Ann, Jackie, Carol, Evelyn, Jacqueline, all the Farmers' market vendors and musicians, and others too many to mention whose support and effort are on every page.



Enthusiastic helpers of all ages in the garden

**Community
Garden**
**PROJECT
LYTTELTON**
& Childrens Community Garden



The Community Garden has continued to flourish over the last year!

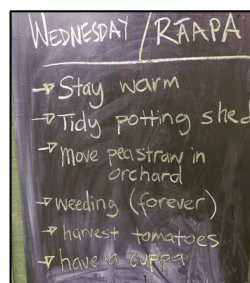
More young families are showing an interest in spending time in the garden which has led us to start developing the lower garden as our Children's Garden and environment space. This will give us scope for building a learning and experiential area for pre-school children (thanks to LPC and Fulton Hogan for their help).

Support for this initiative was shown in the great turnout we had at a working bee dedicated to working in this new space. Thanks to everyone who helped.

Bumper crops of figs, purple peaches, asparagus, potatoes as well as success with more unusual crops such as rampicante and monster gourds.

Shared lunches continue to be a fun, informative time in the garden. We welcome anyone and everyone to come and join us on Wednesdays.

Come and learn, teach or share your knowledge and skills, it is a great way to be active in our community.



Growing food

Growing community

Growing knowledge



Lyttelton Farmers Market 17 years local!

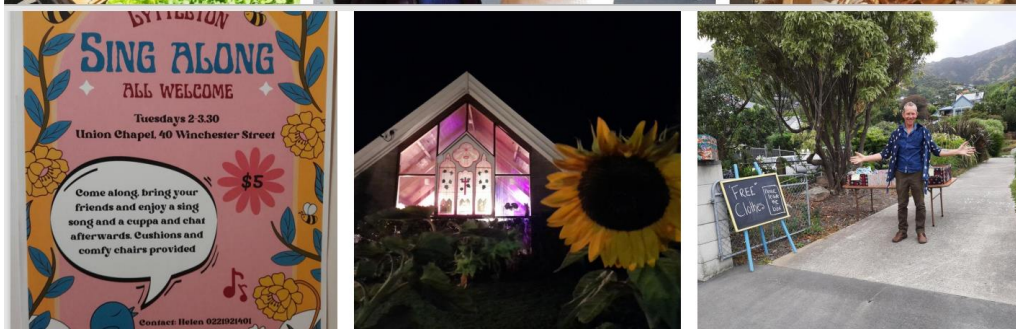
The Lyttelton Farmers Market held a market every week of the year during 2022-23, come rain or shine and even with weather warnings. Local food and local music is at the heart of the market, run by a very small but dedicated team. We were pleased to welcome several new vendors to the Market this year, as well as our returning regulars and local musicians to the market, thanks to the generous sponsorship from Bull O'Sullivan



10



Some of our wonderful vendors from 2022-3



40 Winchester Street

Proudly supported by
PROJECT LYTTELTON

This year the former Lyttelton Community Church was transformed into a new community space "40 WINCHESTER". Its focus is to provide a nourishing place for the enjoyment of the community with new gardens flourishing with flowers, fruit trees and a grass labyrinth, as well much needed repairs to the Chapel building. A number of groups are already utilizing the space and appreciate the care and attention given by John Allen (project coordinator) alongside the support of the volunteers, the neighbours, and friends who collaborate to make this a beautiful place.



Art Dance | Creative Movement | Community Choir | Men's Group | Tango | Young Mothers Group | Nail Clinic | Sing Along | AA Meetings | Concerts | Theatre | Fruit and Veg Collective to name a few ...

12



A beautiful welcoming community space

13






The Garage Sale - our local "Op" shop is open 4 days a week providing Lyttelton with inexpensive everyday items and things they didn't know they need as well as a way of recycling unwanted goods. This year saw the shop being its busiest and with the addition of the Lyttel SewSews the mains focus is re-directing unwanted goods from landfill - and building a great team environment for the many hard-working volunteers who keep the shop running.

\$10,937.61 raised by local community groups in the Garage Sale

Lyttelton Fire Brigade | Diamond Harbour Singers | Lyttelton Tug | Sea Scouts | Diamond Harbour Play Centre |
Diamond Harbour Cancer Support Group | Cass Bay Residents Association | Lyttelton Primary School |
Save the Jetty- Gov Bay | 40 Winchester | Lyttel SewSews | DH Surgery | Community Garden |




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Re-cycle, re-use, re-purpose and re-direct

**LYTTEL
SEW &
SEWS**

Project supported by
**PROJECT
LYTTELTON**

Lytel Sew&Sews keeping textiles out of landfill, while providing purposeful companionship to those willing to share their skills.

Not every donation from The Garage Sale is in the best possible shape, and three volunteers began a journey to find practical ways to keep things out of landfill. They started by taking items that were only slightly damaged, washing and mending donated clothes and returning them, to The Garage Sale, with little tags saying the items had been fixed.

With over 20 kind volunteers willing to help in various capacities and donated equipment such as overlockers and thread, a cohesive group nicknamed Lyttel Sew&Sews began to take shape.

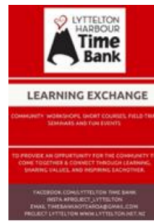
Suddenly old clothes in such disrepair it was unfeasible to mend them, old sheets too thin to use, old raincoats that had lost their water repelling ability old curtains too tatty to save, were deconstructed into their component parts including such treasures as re-usable fabrics, zippers that still worked, domes, buttons, in fact all sorts of valuable bits and pieces with some life left in them.

...and then what?

These creative members began to think of things to make from the rescued materials. Their aim is to make practical and useful items that encourage a community shift to a single use lifestyle. In addition to mending damaged clothes to sell in The Garage Salle or give away to other organizations, Lyttel Sew&Sews make quite lovely cleaning clothes from old sheets and t-shirts, shoulder bags, aprons, produce bags and some clothing.

BOOK Bags
for our
amariki
STORYTIME FOUNDATION
in partnership with
PROJECT LYTTELTON

Made with
kindness,
compassion and
companionship



Proudly supported by
**PROJECT
LYTTELTON**



Time Banking in 2022-23

Time Bank has been an important part of the Project Lytteleton journey since Margaret Jefferies brought the concept to NZ almost 20 years ago. This year, with a change in the software used worldwide, we looked to see how Time Banking could work alongside Facebook and other social media connectors and keep its original philosophy of equity and reciprocity.

With Skye joining the team and our transition to a new software system alongside Facebook, Time Bank's ethos of community connection and small community events is, at the centre of 40 Winchester and the developing Resilience Hub, a project in response to the amazing role Time Bank had in our earthquake recovery.

Now with a weekly broadcast keeping everyone in touch with what's going on, requests for support received and other things happening in our Harbour Time Bank is the ethos of Project Lytteleton. Comments from the community include enjoying the mix of news and events, pictures, and clarity of the dissemination of the information.

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Our weekly community broadcast

19



The LIFT Library

the library of politics, economics, environment and society.

5 popular loans in 2022

A FORAGER'S TREASURY: A NEW ZEALAND GUIDE TO FINDING AND USING WILD PLANTS Johanna Knox profiles edible plants commonly found in NZ and advice on where to find/harvest and use them

THE GOOD ANCESTOR: HOW TO THINK LONG TERM IN A SHORT-TERM WORLD Roman Krznaric— Quick guide to how we can leave the world better than we found it

LESS IS MORE: HOW DEGROWTH WILL SAVE THE WORLD Jason Hickel - We need to restore the balance.

REGENESIS: FEEDING THE WORLD WITHOUT DEVOURING THE PLANET George Monbiot— How our changing understanding of the world beneath our feet could allow us to grow more food with less farming

New Zealand Lifestyle Block (a monthly magazine) Suitable for all readers interested in growing and cooking your own produce



20



21

22

Proudly supported by
PROJECT LYTTELTON



An affordable box of inexpensive fruit and veg delivered to Lyttelton each week available for pick up from 40 Winchester Street every Wednesday.
Run by an amazing dedicated team of three volunteers working in all weathers to pack, repack and ensure deliveries are available every week.



Other things we do

Hāere mai
Welcome to
Lyttelton
HARBOUR

Supported by The
Lyttel Sew&Sews
a handmade bag
of information and
goodies delivered to
people new to
Lyttelton



The Community Carbon Coach

Working in the time of COVID this project looked to support individuals to reduce their everyday greenhouse gas emissions and reduce individual carbon footprints.

The focus became waste reduction, as well as providing learnings round where the energies were and how to communicate change, at a time where people wanted to stay safe, delivered in a practical doable local way.

Project Lyttelton has now taken on the mantle of being a Carbon Coach through its projects. It has also taken us down the road of developing a Community Resilience Hub which will be a big feature of our work in 2023-24.

Public talk on Tiny Houses

by Everett Norris of EverHomes

Lyttelton Community Church
40 Winchester St
Tuesday April 12th
7-8pm

Plastic Free July Workshops on Waste

In collaboration with Lyttelton Library

Monday July 18th 10am-11am
Tuesday July 19th 10am-11am
Wednesday July 20th 10am-11am

Sourdough 101

23

Project Matariki

Connecting us to the history of the whenua and the people of Whakaraupo

JUNE 2022

Kia whakatōmuri te haere whakamua
Walk backwards into the future with eyes fixed on the past.

Project Lyttelton was proud to support Maui Stuart and his team to run Whakaraupo's Inaugural Project Matariki over three amazing nights at Living Springs.

"Umbrella-ed" Groups

supporting others to do what they do best.

The Biodiversity project is looking to support a group to employ a botanist to audit the plants around the Harbour

SAFARI STOMP

AFRICAN DRUM + DANCE EXPERIENCE for KIDS

with special guests
Mageni Gilewot + Ankit Gupta

May 12th, 10th, 20th
4-5pm
Lyttelton Library

Chinehou Collective

FESTIVALS OF ACTION

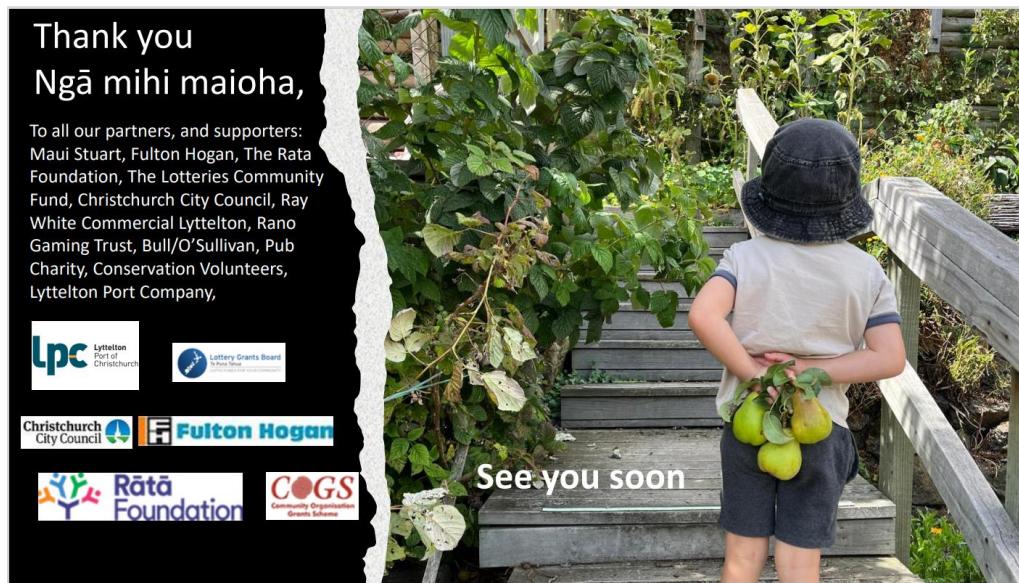
Project Lyttelton were happy to administer and support *The Festival of Action*

24

Matariki dawn

photograph courtesy Maui Stuart

25



Halswell Menz Shed

Q. New Zealand Business Number (NZBN), if relevant R. 9429047470149

****Contact details in applications retracted – request from CWJC administrator.***

Q. First name
R. Tim

Q. Last name
R. Joyce

Q. Position
R. Shed Manager

Q. First name
R. Des

Q. Last name
R. Thomson

Q. Total cost of project (\$)
R. \$27,460

Q. Amount requested from committee (\$)
R. \$11,613

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.
R. Have applied to Mainland Foundation for \$4,784 for the purchase of one 6m container We will contribute \$11,063 towards the project

Page 2 of 3 (2/3)

Q. Start date.
R. 02/09/2024

Q. End date.
R. 30/11/2024

Q. Location:
R. A specific region

Q. What region is your project area?
R. Christchurch

Q. Provide a high-level overview of the project and the key outcomes.
R. This project is aimed at diverting timber and timber packaging from landfill.
This is achieved by collecting pallets and timber packaging from kerbside and selected suppliers to:
- strip down and use the timber for projects
- reuse crates where possible - as per examples provided
- to strip suitable plywood from pallets for sale for DIY projects, thereby generating income for the Shed to help us serve in the community.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. We do not have ready access to a weighbridge to confirm weights - but the trailer loads available to us if we had better facilities is in the 10,000kg - 30,000kg per year

Q. Detail any other environmental and/or community benefits associated with this project.

R. The environmental benefits are reduced waste to landfill.

The community benefits are substantial in that we provide a facility where (mostly) retired men can find purpose and companionship at a time in their lives when men's health is most at risk from loneliness, lack of meaning and isolation. Many of our members regularly express their gratitude for what we provide and for some, it is their sole reason to get out of bed in the morning. The timber recycling is a key component of this as there is always work for those who come along and who have no other projects to work on.

Q. Outline the key project stages or milestones.

R. 2 Sept '24 - order materials and carport ready to commence work

10 Sept '24 - commence work on site

30 Nov '24 - complete physical works, including all racking etc Dec '24 - commence up-scaled recycling operations Mar '25 - report on material through put since new facilities in place

Q. Outline the governance structure for the project.

R. Overall responsibility - Tim Joyce - Shed Manager Project management - Des Thomson

Q. What are the measures of success?

R. Timber available for Shed projects and for members of the public to purchase Plywood sales increase - to help the Shed remain a viable operation and to provide materials for public DIY projects Timber diverted from landfill

Q. Who are the key stakeholders?

R. Menzshed members

Members of the public

Businesses generating timber waste

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. This project is achievable as both the Shed Manager and Project manager have extensive experience in project implementation - see relevant experience on attached document The Shed manager was a key member of the project team for the tendering, rollout of the CCC kerbside collection and processing contracts and the implementation manager for the 15 year operations contracts for kerbside collection, recycling processing, organics processing and EcoDrop contracts. He was awarded the CEO's excellence for his involvement with this project.

The Project manager has also been involved in major contracts both in NZ and overseas, including a role as voluntary project manager on a community facility utilising over 5000 volunteer hours over 5 months

Q. What information will be tracked and evaluated at completion of the project?

R. The build phase will be monitored and reported on when complete.

The project itself is on-going indefinitely and material processed will be recorded and reported.

Q. What are the key project risks and how will they be reduced or mitigated?

R. Key risks include:

- funding not approved - then scaled back operation will be necessary

- project lead not available - then Shed Manager has the necessary skills and experience to complete the build (and vice-versa) Over all - risk factor is minimal over all aspects of the project and on-going processing.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. The Halswell Menzshed has a Health and Safety policy and the this project will have a relevant plan prepared and implemented by our Health & Safety Officer.

Q. Will the project require any resource consent from the regional council or territorial authority?
R. No. The structure is moveable - no building or resource consent is required and this is a permissible activity on the site.

Q. Is your activity an existing permitted activity?
R. Yes

Page 3 of 3 (3/3)

Q. Outline any circular economy principles, such as the whole lifecycle of a product.
R. The circular economy principles being implemented are that the original product has been constructed from materials that have a second use. We are taking the product from its initial purpose and recycling, reusing or repurposing the materials for a secondary life. We are dealing with untreated products so the end of life use of these products can be composted.
The nails that we remove are collected and sold to our local scrap metal dealer, for further refining and reuse.

Q. How does the project foster innovation?
R. The project fosters innovation by providing our members and the public with a range of timber products that can be reused. See our attached document for a snap shot of how the products have been used.

Q. Will the project contribute towards one or more of the following?
R. - Reduction: Lessening waste generation.
- Reuse: Further use of products in their existing form for their original or similar purpose.
- Recycling: Reprocessing waste materials to produce new products.
- Recovery: Extraction of materials or energy from waste for further use or processing, including but not limited to making materials into compost.
- Treatment: Processing waste to change its volume or character so it can be disposed of with no, or reduced adverse environmental impact.

Q. How will the project contribute towards one or more of the above?
R. This project contributes to many aspects of the above. Examples are set out in the attached document.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?
R. This project helps businesses reduce their waste. We provide feedback to organisations who request the information as to how we have contributed to their waste minimisation targets and triple bottom line reporting.
This reporting is generally in the way of photographic evidence of what we remove and where relevant, how the product was used.

Q. Does the project reduce any hazardous substance or production of hazardous waste?
R. No

Q. Does the project:
R. - Reduce illegal dumping or stockpiling of wastes?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.
R. We cannot quantify a cost per kg saving, but our projected income from the sale of reused/ recycled timber is between \$15,000 and \$20,000pa. Based on the projected weight of what we anticipate to divert this would equate to \$1 / kg of timber diverted.
It is also saving companies the cost of dumping, currently at \$415 / tonne.
This is in addition to the saving on greenhouse emissions from landfill and truck movements between ChCh and Kate Valley.

Q. Describe your ability to deliver the project and provide any relevant track record.
R. Please see attached document

Q. Provide any other supporting information, such as links to websites and social media.

R. Our website: [Halswell Menzshed](#) | [MENZSHED New Zealand Incorporated](#)

Attached are a couple of letters of support

2024.05 CWJC funding - Project Cost Summary.pdf:



Proposed timber recovery and recycling centre

	Description	Sum / Qty	Hours	Rate	Value
1	Supply only 6m x 4m kitset carport from Durasteel as quoted	4,678.26			\$4,678.26
2	Take delivery of kitset carport and assemble, including fixing roofing, spouting etc. 4 men 2 days		64	\$65.00	\$4,160.00
3	Supply only trailer jockey wheels for fixing to carport legs	4		\$347.82	\$1,391.28
4	Engineers fee for the design and supervision of piles and holding down anchors	1,150.00			\$1,150.00
5	Supply and fit turnbuckle - galv jaw and jaw	4.00		\$23.36	\$93.44
6	Cut and weld plates to carport legs, prime and paint, bolt jockey wheels in place. 1 man 4 hrs		4	\$65.00	\$260.00
7	Saw cut hotmix sealed yard, excavate pile footings, supply and install reinforcing and hold down anchors, supply and place concrete	8		\$72.00	\$576.00
8	Labour to carry out the above work. 4 men 1 day		32	\$65.00	\$2,080.00
9	6m shipping container as quoted - CSL	4,160.00			\$4,160.00
10	Strip out existing shelving and reposition in new container - 2 men 1 day		16	\$65.00	\$1,040.00
11	Supply of 50 x 50 x 6 steel angle for racking to hold plywood and timber. As quoted - United Steel. 18 lengths x \$78.32	1,409.82			\$1,409.82
12	Plywood shelving for racking above 1.3m	450.00			\$450.00
13	Build and install shelves / racking in the new container. 2 men 2 days		32	\$65.00	\$2,080.00
14	Consumables - welding rods, grinding wheels, screws, roof screws etc		Sum		\$350.00

Sub total - excl GST: \$23,878.80

Plus GST \$3,581.82

TOTAL PROJECT COST \$27,460.62

Other funding:

Current application with Mainland Foundation - container	incl GST	\$4,784.00
Halswell Menzshed contribution - labour	incl GST	\$11,063.00

TOTAL VALUE OF THIS APPLICATION: \$11,613.62

2024.05 CWJC - Funding application.docx (3194 Kb.):

Funding application



**for increasing the efficiency and output
of our packaging and construction waste
diversion and recycling programme**

Achieving:

- Waste avoidance
- Reduction of waste to landfill
- Resource recovery
- Recycling
- Repurposing
- Reuse

Canterbury Waste Joint Committee

Waste minimization project funding

May 2024

Executive Summary

We thank you for writing to us (last year) advising of the availability of funding for waste avoidance, reduction, recycling and repurposing. Over the last four years we have built up an enviable track record of diverting waste timber from landfill by recycling, repurposing and reusing construction and packaging waste. Through this process we are also generating a steady income stream for the Shed while providing reasonably priced / free goods for others in the community.

The sound financial viability of our venture, whilst providing opportunities for retired men in our community to maintain purpose and companionship at a time when many are vulnerable to isolation and deteriorating health has got to make this a project worthy of your consideration.

The possibility of receiving financial assistance by way of a grant has inspired us to carefully review our operation over this last year. We have considered a range of options but consider the most cost-effective medium-term solution is for a relocatable carport type structure plus a container for storage of recycled plywood and timber for sale or reuse.

Currently all our dismantling work is done outside, weather permitting, with plywood for sale being stored on trolleys in our covered workshop area and moved outside when we need access to machinery. The other timber, crates, and the like stored outside.

Our Menzshed currently operates from the grounds of St John of God hospital, with whom we have an excellent relationship, providing complementary services on the same site. However, our tenure cannot be guaranteed forever, so having relocatable buildings provides an added level of financial security for the Menzshed.

Please review our experience and expertise in our application and below and we look forward to our favourable consideration for funding for this project.

Background – Halswell Menzshed

Halswell Menzshed was established 11 years ago after Roger Spicer, a retired Baptist Minister and Mark Anderson, Facilities Manager at St John of God Hospital, were attending a men's health meeting sponsored by CCC.

After the meeting they got together and as a result Halswell Menzshed was established on the grounds of St John of God hospital.

They decided that an affiliation to the Menzshed organisation was the way to go as Menzshed is an international organisation established for the benefit of men's wellbeing. The retirement phase of a guy's life can be challenging especially if no plans have been put in place. But in a MenzShed men find purpose, comradery, and fulfillment. Men generally have a smaller circle of friends than women, so the Shed offers opportunities to foster new friendships outside the social circles their partners establish. Many couples find that after retirement, the shock of suddenly being with each other 24/7 can cause friction, so a Shed is a great place to escape the stresses of 'underfoot syndrome', and as a result we find that women are among the most ardent supporters of Sheds.

Many of our members regularly remind us that the Shed gives them a reason to get up in the morning. New members regularly search us out at the end of each session to thank us for being able to come along.

We now have more than 150 members with an average of over 450 attendees at the Shed each month. We have 43 volunteers donating over 700 hours of their time per month for the benefit of other members and the wider community.

In the last couple of years, we have worked with / assisted the following organisations:

Brackenridge, Emerge NZ, pathways, St John of God hospital, Department of Corrections, Hillmorton Hospital, Courtyard Preschool, Somerfield St, Halswell Bowling Club, Hornby Bowling Club, Tai Tapu Riding School, Seven Oaks Primary School, Christchurch City Council, Anglican Church Chatham Islands (historic building restoration), Oaklands School, Halswell Community Hall, Aidanfield Christian School, Seedlings Early Learning Centre, Special Needs Library, House of Cards, Port Hills Predator Free and Lyttelton Street Play Centre.

We also built a bed / bunk unit as a step-by-step project for The Shed Magazine, and then donated it to a deserving family. We also leave bags of free firewood at our gate for people to help themselves.

Many people bring in furniture and appliances for repair.

We are open to our members every morning, Monday to Saturday, 9am to noon.

We also have a lady's session on Wednesday evenings, a session for those with disabilities between 1-2pm on Thursdays and provide our facilities and a supervisor for Brackenridge residents on a Wednesday afternoon.

We have worked closely with our City Councilors and Community Board members over this time and have established a good track record and reputation in the community.

Our waste diversion / reduction / recycling & repurposing journey

We started collecting pallets left by companies at kerbside but have since established relationships with selected companies to assist them in achieving their waste reduction targets.

One of our members observed the amount of packaging and timber waste being put in skips at the Engineering Workshops at Christchurch Airport. He put a proposal to them that the Halswell Menzshed could take their packaging waste and reuse / repurpose it. We are now part of their waste diversion strategy and reporting.

Our current outside operation is severely restricted by the number of days we can operate, to dismantle, sort and then store goods ready for sale, recycling or re-use:





Trying to juggle space with no dedicated place for the wood – this covered area has machinery and equipment which is now difficult to access:

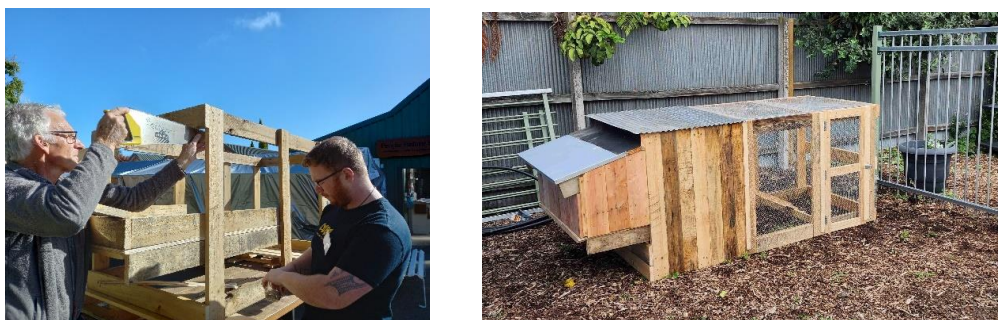


Example of what is available:



Recent projects using timber from pallets diverted from landfill:

Chicken coop – for Oaklands School – for one of their environment education projects



Play house – Christmas raffle – manufactured from recycled timber and plywood from pallets.



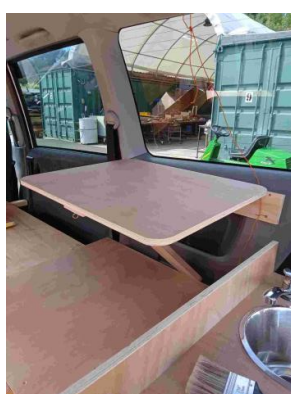
Fundraiser for the Shed – Christmas wine bottle boxes for local Law Company. All timber was from recycled pallets, as were the shavings.



Reject slab of wood – with severe splitting – creatively saved, by using epoxies to become a table top



Recycled pallet materials used to convert the back of a van into a simple camper



Bunk / desk project that we built for Christmas edition of The Shed magazine showing step by step guide as to how to build this unit.

The bunk ends were cover sheets of customwood recovered from a joinery workshop, the ladder and bed base were made from old pallets and even the hand rail at the top was recycled from an old bunk. This unit was then donated to a family chosen by one of the trusts at South West Baptist Church.



This bowl was manufactured from a 400mm long off-cut of a 400 x 100 laminated timber beam from a building site.



Timber offcuts used for chopping boards including assisting Canterbury-Westcoast Helicopter Rescue with their fundraising efforts:



Recycled plywood, timber and a slab of wood used to build a retractable dining bench in a Tiny Home being built using a considerable amount of recycled timber, including the floor which was the base of a large packing crate.



Sample projects built by members using recycled timber from pallets diverted from landfill



Farwell gift for previous Shed Manager

Bird house



Repurposed crates from Engineering Workshops, ChCh airport – rabbit hutch and dog kennel



Experience of project leads

Tim Joyce, Shed Manager, was employed by the Christchurch City Council from 2005 until his retirement in October 2019.

One of Tim's first jobs after moving to Council was the integration of contracts and services from Banks Peninsula District Council in to CCC portfolios. This included the integration of all waste and recycling collections, transfer station and drop offs.

This was then followed by the switch from rubbish bags and recycling crates to a three-bin kerbside collection. Tim was one of the project leads on this and the implementation manager for the whole kerbside collection and processing. At 480,000 wheelie bins, this was the largest bin rollout ever undertaken in the Southern Hemisphere. He was also involved in the writing and awarding of contracts for the construction and operation of the MRF and Compost facilities, the Operation of the EcoDrops as well as the wheelie bin collection contract.

Tim was awarded the Chief Executive's excellence award for his involvement in the implementation of these contracts. In addition, while Tim was responsible for the Solid Waste Team the kerbside collection system consistently performed in the top 10% of all of the council's services in their annual ratepayer surveys.

Tim was also Unit Manager of City Water and Waste for nearly two years managing an annual opex budget of over \$76m and was project sponsor of over \$700m capital projects in the 10 year plan and \$100m of this in the current year construction phase. Also, while in this role one of his managers, Kevin Crutchley, was driving recycling initiatives with building contractors and other businesses in the city.

Prior to moving to CCC Tim had 12 years in contracting services to councils in NZ and Australia while employed by Serco Group NZ and Transfield Services.

Des Thomson, Project Manager, has been on the Steering Committee for the Halswell Menzshed since he retired in 2014.

During his time at the shed Des has coordinated the establishment of the two engineering workshops, outdoor covered work area, dust extraction system and other improvements. He also has developed the HSE systems for the shed.

Prior to retirement he was employed by Fluor (Project Management Consultants) as HSE Manager from 2014 to 2006 on major construction projects in Australia, Saudi Arabia and Abu Dhabi.

In Abu Dhabi on the Sour Gas Project, Fluor as PMC managed the delivery of the Utilities Package with Samsung as EPC contractor - value US\$1.5 billion. This included construction of a 10,000-man camp with all associated infrastructure and construction of utilities - steam, water, power, pipe racks and main control building.

Des's role was initially based in South Korea ensuring the HSE requirements of the client were incorporated by Samsung in the HSE construction procedures documentation and detail engineering design of the facility. He participated in HAZOP reviews, model reviews, and HSE Impact Assessments. He also managed the South Korea Emergency evacuation plan for the Seoul team.

During the 3-year construction phase he had a team of 10 FLUOR HSE Field Specialists monitoring the safety compliance of the EPC contractor and 21 sub-contractors. Mechanical completion was achieved in Feb 2014 with 40 million safe man hours and a work force of over 8000

In Australia Des was HSE manager for the Fluor Australia \$1.15 Billion Prominent Hill Gold mine project. Des's team of 6 safety advisors had safety oversight of the construction of a village for 1200 people, 127km of underground water supplies and pumping stations, 133KV and 33KV transmission lines and 8Mtpa flotation process plant and tailings dam. In Jan 2009 the project achieved over 4-million-man hours LTI free with a peak workforce of over 1000 people.

From 2006 to 2002 Des was based in Australia working for Comalco on the new Gladstone Alumina refinery. During the construction phase of the \$1.5 billion refinery, he was the Comalco Adviser to the principal contractor (Bechtel) on site construction safety and at the same time set up the safety systems for the new operations group in the refinery.

He had a team of 8 security staff, 3 nurses and one Doctor, 1 hygienist and a team of 20 emergency responders when the refinery commissioning began in 2004.

Prior to moving to Australia in 2002 Des was employed by NZ Aluminium Smelters with roles in engineering, training, contractor management and safety.

During 2000 he was the voluntary building project Manager for \$600,000 changes to a community facility. This was completed using a building contractor and organizing 5000 hours of voluntary labour over 5 months.

What we are seeking funding for:

To enable us to more efficiently dismantle and store the plywood and timber, we require:

- a dedicated covered space 6m x 4m to allow work to be undertaken under cover
- a 6m container complete with racking, for storage and sale of product.

Our plan is to:

- purchase a second-hand 6m container which will allow us to transfer stored materials from half of an existing 12m container on site.
- The west 6m will then be fitted out with racking for storing plywood and other recycled timber
- Adjacent to the end of this 12m container we will erect a 6m x 4m carport type structure, which can be moved should St John of God require access across our yard, or to allow us to reposition it for events.

A break down of costs and quotes is attached.

Appendix 1 -

Values of the Halswell Menzshed

People Before Projects

The needs of others are more important than our projects.

A Place for Everyone

Connecting socially, working cooperatively

Good as We Are

Despite our limitations we will make the best use of our days for the sake of others.

Targets not Deadlines

To avoid stress, we avoid setting deadlines.

Giving is Good

There is more reward in giving to others than receiving.

Creativity is Cool

We explore ways to be use our creativity for others and ourselves.

Encouragement not Cursing

Our language and behaviour are not to cause offense.

Safe not Silly

No one gets hurt and we don't harm the environment.

Alan Aitken - MenzShed Support Letter.pdf (42 Kb.):



25 November 2022

To Whom This May Concern

Regarding: Halswell MenzShed

I am a Management Consultant specialising in charities and not for profit organisations. Since 2005 I have worked with a great many groups in Canterbury and even at national levels. My work has included policy and systems building, fundraising, training, staff recruitment, crisis management, strategic planning, and merger/acquisition activity.

Part of this has been regular work with the impressively diverse range of organisations associated with South West Baptist Church (SWBC) of which Halswell MenzShed is one. As part of a broader SWBC collaborative project I was able to visit the MenzShed and provide help with strategic planning.

I really enjoyed my time with them. It is great to see a service that provides a well organised, safe, and productive space for men to get together. Halswell MenzShed gives predominantly older men a platform for friendship and even community service through the work they do.

I commend Halswell MenzShed to you as a solidly run organisation that genuinely serves the men who join it and the broader community as well.

Warm Regards

Alan Aitken
Director
Evermore Enterprises Ltd

Item 7

Attachment H

Virginia - SJoG - letter of support.pdf (199 Kb.):



St John of God Hauora Trust

HEALTH AND ABILITY SERVICES
St John of God Halswell

29 November 2022

To whom it may concern

Re: Halswell Menz Shed Application

The Halswell Menz Shed is an integral part of the St John of God Halswell (SJOG) community. Residents regularly join men from the community to work on projects together. This gives residents meaningful activity, social connection and allows them to make a contribution to their community.

The men from the Menz Shed also make a contribution to SJOG by opening their shed door to our service and assisting with maintenance or repairs as required.

A strategic objective of SJOG is to contribute to the local community and the collaboration between the two organisations is an important mutual relationship.

The Halswell Menz Shed is a well-established group of men who regularly spend time together and they have between them a wide variety of skills. We have every confidence, and we know from experience, that the work carried out by the Halswell Menz Shed is done in a professional manner and will comply with any legal requirements.

St John of God Halswell fully supports the application from the Halswell Menz Shed for funding.

Yours sincerely



Virginia Spoors
General Manager
St John of God Hauora Trust

A. 26 Nash Road, Halswell, Christchurch 8025 | P. +64 (03) 338 2009 | F. +64 (03) 338 2008 | E. enquiries.halswell@sjog.org.nz

Manaakitanga | Aroha | Whakaute | Tika | Hiranga
Hospitality | Compassion | Respect | Justice | Excellence

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Digital Future Aotearoa - Recycle A Device

Your form "Canterbury Waste Joint Committee grant" has received the following response:

****Contact details in applications retracted – request from CWJC administrator.***

Page 1 of 3 (1/3)

Q. Legal entity name
R. Digital Future Aotearoa

Q. Registered address
R. 14 Wise St, Addington, 8024

Q. Postal address, if different
R. Level 2, 14 Wise St, Addington, 8024

Q. First name
R. Bronwyn

Q. Last name
R. Scott

Q. Position
R. General Manager

Q. First name
R. Bronwyn

Q. Last name
R. Scott

Q. Total cost of project (\$)
R. \$107,000

Q. Amount requested from committee (\$)
R. \$20,000

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.
R. This budget details the operating costs for RAD in Canterbury for one year.

We have an active application with Rātā Foundation and Ashburton District Council, however we have been unsuccessful with grant applications with Christchurch City Council due to their priority areas. Additionally, we have Spark Foundation funding which will be used to co-fund regionally.

Our 23/24 CWJC funding is due to be exhausted by the end of November 2024, and the new request will help fill the CCC gap and line us back up with the local government financial year.

Page 2 of 3 (2/3)

Q. Start date.
R. 01/12/2024

Q. End date.

R. 30/06/2025

Q. Location:

R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.

R. Digital Future Aotearoa (DFA)'s Recycle A Device (RAD) programme is an innovative initiative that diverts unwanted laptops from waste streams and teaches high school students and community members to diagnose and repair them. Refurbished devices are then gifted to rangatahi (young people) who need them for employment, education, connecting with services, and general participation in society, but would otherwise have difficulty accessing them. This not only reduces e-waste but also provides valuable skills to students, encourages behavioural change regarding waste and the circular economy, and ensures devices reach those who need them most.

RAD's unique approach involves establishing an accessible and effective option for reuse instead of disposal, significantly increasing awareness of alternative end-of-life options for electronics. By refurbishing laptops, RAD emphasises resource reuse and educates the public about landfill issues, planned obsolescence, and e-recycling, promoting a broader view of waste reduction beyond recycling. This fosters community engagement, teaches essential repair skills, and shifts mindsets towards sustainable consumption.

We kindly request continued funding from CWJC so we can continue the work we are doing into 2025. The benefits extend beyond waste reduction, providing skills training, peer support, and employment opportunities. Our past experiences have shown that engaging local schools and community groups increases awareness of waste diversion and digital equity.

RAD's work occupies a unique place in the waste hierarchy by encouraging waste avoidance, reduction, reuse, and recycling. Success for us means expanding our impact in Canterbury (and nationwide), engaging more community members, and fostering a widespread rethink of waste, repair, and recycling practices. By supporting RAD, it is a contribution towards a more inclusive, connected, and environmentally conscious New Zealand.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. 500 laptops at an average of 2.3kg each = 1,150kg/year

Q. Detail any other environmental and/or community benefits associated with this project.

R. The Recycle A Device (RAD) programme addresses the substantial issues of e-waste and digital inequity in Aotearoa with a comprehensive and innovative solution. By refurbishing unwanted laptops, RAD reduces e-waste and promotes a circular economy, prioritising reuse over disposal. This approach breaks the cycle of planned obsolescence, encourages long-term behavioural change, and fosters a mindset shift towards sustainable consumption. RAD's efforts align with several of the United Nations' Sustainable Development Goals (SDGs), contributing to broader sustainability metrics. Additionally, RAD empowers communities by providing technical skills training, bridging the digital divide, and ensuring digital inclusion for rangatahi (young people). This digital inclusion is crucial for their independence, self-sufficiency, and active participation in society, enabling them to connect with their community, access educational and employment opportunities, and shape their own futures. The programme also enhances community resilience and wellbeing, fostering mutual support networks and cultural identity. By addressing both environmental and social challenges, RAD not only mitigates the impacts of climate change but also confronts societal norms that perpetuate exclusion, providing tools and skills for a more sustainable and equitable future.

Q. Outline the key project stages or milestones.

R. Established RAD clubs at Mt Hutt College, Te Aratai College, Ashburton Library, Ashburton College, Christchurch Boys High School, Hillmorton High School, Hornby High School, Riccarton High School, Hagley Literacy Centre, TechMate and Ellesmere College Te Kāreti o Waihora continue to grow and thrive. We also have groups interested in training in late 2024 such as Shirley Boys High School. We require ongoing funding to ensure the sustainability of the programme in these areas as well as create community impact sessions - 'fix one, keep one' training days for groups not placed to run a club (like the hugely successful session at the Waitaki Resource Recovery Trust).

Funding will be used to ensure skills learnt are maintained (educational resources, regular access to subject matter experts and trainers), for required parts to refurbish the laptops which are fixed and gifted into communities and for our Community and School Liaisons to offer support, guidance and act on requests from these clubs, ensuring the programme is best meeting their needs. As each of the Canterbury-based clubs are at different stages of establishment, the support needed to develop and sustain the programme varies.

Project stages:

Early 2024 - establish new clubs in Canterbury and retrain groups who require it (COMPLETE)

Mid-late 2024 - 'fix one, keep one' training to be organised alongside interested groups with high device access need (IN PROGRESS)

Early 2025 - Establish new RAD clubs as funding, laptop supply, interest and need dictates

Mid 2025 - 'fix one, keep one' training to be organised alongside interested groups with high device access need

Throughout 2024 and 2025 - support the established clubs with parts, ongoing education and technical support (IN PROGRESS)

Q. Outline the governance structure for the project.

R. Recycle A Device is a Digital Future Aotearoa (DFA) programme. DFA was established as a grassroots, multi-stakeholder initiative with people and organisations who are passionate and experienced in improving digital technology education and reducing inequities. Our core team and kaitiaki team have experience working to address the digital divide, change attitudes towards waste, and collaborate with community groups.

The governance function is provided by the Digital Future Aotearoa Board of Trustees. An independent kaitiaki rūpū is in place for RAD to guide and advise.

The RAD kaitiaki team includes:

Greg Scrivin - a bilingual Science and Digital Technology teacher at Te Wharekura o Mauao.

Owyn Aitken - Remojo Tech co-owner who founded the Aotea College programme that RAD grew from.

Siddharth Kumar - a technology leader who has championed Digital Equity and Inclusion even before these terms were popular.

Joel Umali - Lead intrapreneur for tech and innovation at The Southern Initiative of the Auckland Council. Joel has previously worked as an economist, aid worker, and advisor for international

development projects focusing on community empowerment, social finance and digital inclusion, and has been involved in a number of digital equity initiatives in Aotearoa.

Q. What are the measures of success?

R. DFA's vision: Aotearoa has excellent and equitable life outcomes.

The main measure of success for RAD would be if we no longer needed to exist - if the short and long-term benefits of our work and the work of others led to an Aotearoa in which repairing, reusing and reducing waste is prioritised, the circular economy is flourishing and the digital divide has been bridged.

In the short term, we will measure success by growing the number of Canterbury-based organisations choosing to donate their laptops to us year on year. Success will also be determined by not just the number of schools and students participating in the refurbishment process, but by the nature of having a sustainable Club operating. And finally, success will be measured by how many laptops we are able to gift to whānau.

Q. Who are the key stakeholders?

R. DFA and RAD receive support from many businesses, government entities, individuals and community groups. Stakeholders include the DFA team (including kaitiaki), financial supporters and funders, device donors (including Fletcher Building, Cook Brothers Construction, The Warehouse Group, and Silver Fern Farms), businesses we work with during our process (including Entelar, RemarkIT, BMS-IT and Echo), waste management companies (including EnviroNZ and Ashburton Resource Recovery Park), school and community group members, participating rangatahi and their whānau, and other groups (including government) working towards educational, environmental and community development goals.

In Canterbury, we also currently work with Te Aratai College, Christchurch Boys High School, The Loft, Linwood Library Te Kete Wānanga o Ihutai, Techmate, Tagata Moana Trust, Linwood Medical Centre, Canterbury District Health Board, Mt Hutt College, Ellesmere College-Te Kāreti o Waihora, Ara, Ashburton College and more.

This funding would allow us to maintain these relationships and create relationships with new stakeholders.

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. We know this project is achievable because it has already shown to work effectively (since 2020) and we have the processes in place to implement a scaling up of our programme. We are lucky to work with knowledgeable individuals, groups and businesses in the waste minimisation space and other areas to gain support and assistance where needed.

Our core team and kaitiaki team have experience (both before working with RAD and at RAD) working to address the digital divide, change attitudes towards waste, and collaborate with community groups.

The RAD operations team includes:

Bronwyn Scott - establishment Programme Manager of RAD and now the General Manager of Digital Future Aotearoa.

Kelsey Hallahan - Programme Manager, responsible for maturing processes and smooth operations.

Becks Harris - Donor Liaison. Becks gets the word out about our kaupapa to form partnerships with key supporter stakeholders.

Eva Riddell - School and Community Liaison. Based in Ōtautahi, Eva's role is to make sure schools have everything they need to thrive, while also identifying and working with community groups best placed to distribute RAD laptops. For most of her career she has worked with Māori whānau through advocacy, iwi development, and Māori enterprise. She has organised over 45 RAD high school training days and community workshops across NZ, directly benefiting hundreds of people. Eva works with community groups including churches, district libraries, and iwi to donate refurbished devices to those in need.

Anthony Manu is our Tāmaki Makaurau-based School and Community Liaison, with a focus on supporting our kaupapa in the Waikato and north.

The scope and scale of our future plans are ambitious but achievable, and we have mapped out a clear and realistic plan for the ongoing nature of our programme based on both our overarching goals and the data created by our work so far. Our project plan has scalability and flexibility baked in as the pipeline of funding and device donations is a documented active risk, therefore we must plan and adapt.

To date, RAD has delivered 82 training workshops for over 1,230 rangatahi to develop e-kaitiakitanga. We have diverted 10.25 tonnes of e-waste from landfill or recycling by giving laptops a new life in NZ. In 2023, we were able to provide our programme at a cost of \$186 per laptop which is far less than purchasing a second hand device via retail or wholesale channels.

Q. What information will be tracked and evaluated at completion of the project?

R. We have established robust measurement processes to assess and improve the impacts of our work. Since starting our mahi, RAD has collected quantitative and qualitative data, demonstrating significant positive results in contributing to an environmentally, economically, and socially equitable and sustainable Aotearoa. We are open to sharing more details about our data collection methods and considering your recommendations, provided they do not compromise the privacy of our participants.

Quantitative data is tracked through our systems, monitoring each laptop's serial number from donation to recipient, calculating diverted hazardous waste and materials, and tracking the number of attendees in refurbishment classes and participating groups, as well as the number of schools and community groups conducting ongoing refurbishment activities. Our year on year progress shows the positive impacts of this circular economy initiative with 3.6 tonnes of e-waste given new life across NZ in 2023.

Qualitative feedback and storytelling are crucial for understanding our success. We maintain relationships with schools and community groups for continued support and feedback, recognising that one participant's involvement in RAD can significantly impact their whānau and community by increasing skills, access, and future opportunities. We are committed to making data-driven improvements to ensure our initiatives continue to benefit the environment and society.

Testimonials for RAD programme and the impact on businesses, community groups, individuals and their whānau include:

"We had an amazing day – learning so much more about Laptops, what is found under the cover, what icons mean and how to fix problems. Searching Net for information. We love our new laptops especially because our parents can't afford laptops for each of us. We now have independence and not having to share the family laptop." - Workshop attendee

“We love working with RAD and being a small part of the positive impact that their innovative model creates for schools, rangatahi, communities and the environment” - Julia Jackson, Head of Purpose and Sustainability at Kiwibank

Q. What are the key project risks and how will they be reduced or mitigated?

R. While proven and potential positive impacts of RAD’s work have been outlined extensively in previous questions, it is important to also identify and acknowledge any potential risks and negative impacts. These include:

Health and safety risks

Digital Future Aotearoa (RAD is a DFA programme) is an Accredited Social Services Provider - Level 4 - to the Ministry for Social Development. All our staff and contractors are Police Vetted under this policy, and we have procedures in place to ensure the safety, health and wellbeing of both our team and the tamariki under our care. Our training and support of those within the RAD programme is able to take place remotely, we have 5 team members based in different regions - 2 in Christchurch, 1 in Auckland, 1 in Hamilton, and 1 in Dunedin - so remote communication and collaboration is foundational to our mahi. We also have peer trainers across the North and South Islands who are able to host refurbishment classes, so our in-person work is not hampered by geographical travel restrictions.

Additionally:

- Our tools, resources and equipment are safety checked prior to being on school/community group grounds.
- We provide static bands when required during the refurbishment process and train participants in their use.
- We teach theory as well as practical skills so that participants understand the dangers of working on electrical equipment and best practices for safe refurbishing.
- A teacher or mentor is present at workshops and ongoing refurbishment group meetings to ensure tools and devices are being used correctly and safely.

We believe the scope and scale of RAD is ambitious yet achievable, with a clear and realistic plan based on our goals and data. As a not-for-profit, RAD relies on ongoing funding and support, and we manage funding risk by having a naturally scalable and flexible project plan. Our broad societal benefits allow us to apply for funding in areas such as waste minimisation, education, and community support.

300,000 new laptops are purchased each year by NZ-based government and business sectors, with most of those laptops replacing older versions that enter the second hand market. We are seeing a slowdown in purchasing new devices post-pandemic and also in the current economic climate, however, there will always be a large number of second hand devices available, we just need to intercept them! Large businesses refresh their devices every 2 to 5 years. We maintain secure, ongoing relationships with donors, and RAD’s reputation and growth, along with new product stewardship regulations, will only enhance our support and collaboration.

The Digital Future Aotearoa board and the RAD kaitiaki team maintain an active risk register. We have the applicable public liability insurance to carry out our work. Please follow up with us if you identify any potential risks not outlined above, and we will be happy to discuss our approach to mitigating and managing them.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. We agree with the guiding principle of HSWA that workers and others need to be given the highest level of protection from workplace health and safety risks, as is reasonable, and that key to this is proactively identifying and managing risks.

Digital Future Aotearoa and Recycle A Device take responsibility for the health and safety of our staff, volunteers and those we work with to the extent that we can, and encourage individuals to take reasonable care for their own health and safety and that their actions don't adversely affect the health and safety of others. RAD has identified potential risks throughout our process and put systems and procedures in place to be followed to mitigate these risks, more detail on this can be found in our answer to the question "What are the key project risks and how will they be reduced or mitigated?". We are constantly learning from our work and interactions with others to identify what we are doing well and what we could be doing better. We are putting these learnings into action to protect ourselves and those around us.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. Yes

Page 3 of 3 (3/3)

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. RAD works not only to keep the resources we work with in use for as long as possible but also encourages learning and behavioural change around unhelpful approaches to waste and the circular economy.

By recovering and regenerating products and materials at the end of each service life, RAD's work extends the life of the devices we work with for as long as possible, diverting them from landfill, e-waste and e-recycling into a second, useful life. While all devices currently in use will at some point end up in the waste cycle, this will be much further into the future than it would usually be without RAD intervention. Refurbishment and rehoming is postponing rather than preventing an end of life for these devices with our process teaching skills and encouraging a mindset that leads to more repair and less waste overall.

RAD also works with others in the waste minimisation space in New Zealand to push for the Right to Repair and exert pressure on decision-makers (government, manufacturers, retailers) to introduce and uphold policies that ensure a product will be designed for the longest use possible, and be easily repaired, remanufactured or recycled effectively.

Q. How does the project foster innovation?

R. RAD is innovative in its design, approach and engagement. RAD bridges the digital divide and reduces inequity by transforming e-waste management. By collecting and refurbishing pre-loved laptops, RAD addresses e-waste, upskills young people, promotes education around the circular economy, and provides future career pathways. This approach fosters community participation and behaviour change, contributing to long-term waste reduction and social equity.

RAD is a co-designed, community-driven programme that emphasises strong partnerships and flexibility. This approach builds trust, fosters community, and promotes self-determination, allowing individuals and groups to tailor RAD's processes to their needs. RAD encourages participation in tech careers, particularly among underrepresented groups such as female, Māori, and Pasifika-identifying students. By removing barriers and promoting STEM ambitions, RAD taps into the potential of diverse talent, enriching the tech industry with new perspectives and innovative thinking. Through

these efforts, RAD proves that innovative, community-centric solutions can be both rewarding and achievable, inspiring participants to value their unique perspectives and cultural contributions.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

- Recycling: Reprocessing waste materials to produce new products.

- Recovery: Extraction of materials or energy from waste for further use or processing, including but not limited to making materials into compost.

Q. How will the project contribute towards one or more of the above?

R. Reduction: participation in RAD encourages behavioural change away from engaging in planned obsolescence - instead prioritising repair and reuse, leading to less consumerism and in the long term less creation of new products being created with a short life span, large use of virgin materials, and associated negative environmental impacts.

Reuse: RAD reuses devices that were designated as 'waste' to build digital skills and access and benefit the community. In doing so, we teach the skills and encourage the mindset change needed for people to repair and reuse devices and other products in the future. Any devices donated to RAD that aren't suitable for refurbishment (around 4% of donated devices) are stripped for addition to our parts library and these parts used in future device refurbishment.

Recovery: A small percentage of donated devices are not able to be refurbished. In these cases RAD has an e-waste policy which includes the directive to strip any useful parts for a parts library, reuse any parts across devices where possible, only order new parts when necessary and double-check with a trainer or group leader before designating anything as e-waste. We partner with RemarkIT and Computer Recycling (Echo) for the ethical disposal of any e-waste resulting from the refurbishment process. Both RemarkIT and Echo have a reputation and transparent process that makes us confident that they are using ethical procedures and standards to process e-waste.

Recycle: as outlined above under 'Recovery', anything donated to RAD that is not reused or recovered is recycled responsibly.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. By prioritising reuse and reduction of waste (unwanted devices), the Earth's limited resources are used in a more sustainable manner than if these devices were to be sent to landfill or recycled and then brand new replacement devices purchased. RAD participants' new repair skills and reconsideration of 'waste' encourages long-term behavioural change that leads to less consumerism, breaks the cycle of planned obsolescence and leads to a reduction in inefficient use of resources.

There are many commercial benefits for those we work with - device donors gain a reputation for supporting their communities and reducing negative environmental impacts just by getting rid of their waste in a different way, schools and community groups receive free training in new skills that have short and long term positive impacts, and device recipients have a new ability to participate in education, the economy and society. These benefits are symbiotic - high-profile device donors bring a trustworthiness and confidence for others considering working with RAD, keen school and community group refurbishment participants help keep RAD going by fixing up devices for us to gift, and device recipients being more engaged and capable of participating in society benefits the tech industry and NZ society in general.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R. - Reduce illegal dumping or stockpiling of wastes?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. New research from Echo shows that 45% of business owners don't know what to do with their e-waste, and only 25% have formal e-waste policies. It's no wonder only 2% of the 80,000 tonnes of electronic waste produced in NZ is recycled in New Zealand annually, resulting in potentially tens of thousands of tonnes worth of valuable materials ending up as toxic landfill fodder. Even e-waste that isn't sent to landfill and is instead recycled can have negative environmental impacts both in Aotearoa and overseas.

While RAD's goals might seem small compared to the amount of e-waste created, the importance of gifting fit-for-purpose laptops into the community while increasing community skills and participation at a cost to the programme of only \$186 per device should not be overlooked both when assessing cost-effectiveness and potential for long term positive impacts.

In 2023, RAD diverted 3.6 tonnes of e-waste from landfill for a total operating cost of \$441,564, equating to \$122 per kilogram of waste diverted.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. All aspects of RAD foster and encourage local development, support and input. We believe that equitable and inclusive planning and action requires the input and support of the community members that are most impacted by the issues and will be most impacted by the implementation of any potential solutions. RAD's flexible framework and focus on strong partnerships and mutually beneficial relationships allows for individuals and community members to work with us in a way that makes the most sense for them, addressing their specific wants and needs, and providing the largest positive impact possible as determined by those who are impacted by societal issues (rather than imposed from the outside).

Please check out our impact report from 2023 to see a snippet of our track record.

Q. Provide any other supporting information, such as links to websites and social media.

R. [Digital Future Aotearoa](#)

[Recycle A Device](#)

[Digital Future Aotearoa | LinkedIn](#)

[Page couldn't load • Instagram](#)

[Recycle A Device | LinkedIn](#)

[Digital Future Aotearoa - YouTube](#)

[Demand for back to school devices at an all time high | RNZ](#)


[Charity connects communities through recycling laptops \(1news.co.nz\)](#)

[Laptop 'hustlers' give old computers a second life for those in need | Stuff](#)

[RAD connection with Ara | Te Pūkenga gifts 60 laptops to students in need - Ara](#)

[RAD project marks impressive 2023 with donations & accolades \(itbrief.co.nz\)](#)





RAD budget Canterbury 24_25.pdf (410 Kb.):



Budget for Recycle A Device - CWJC

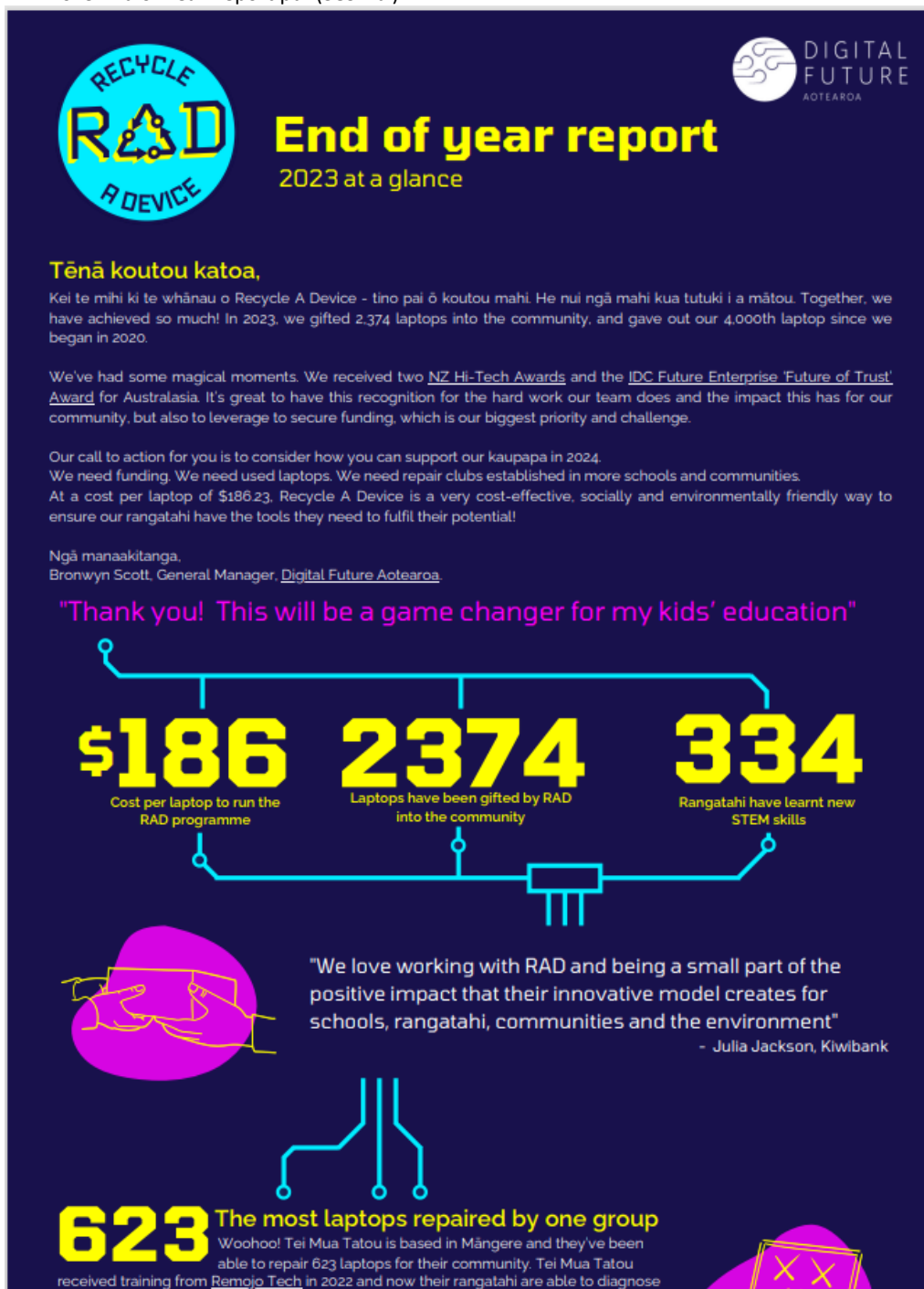
This budget outlines the estimated cost to run Recycle A Device in Canterbury for one year, including supporting established Clubs and 2 training workshops which can be for a retraining, a new school, or a 'Fix 1 Keep 1' community day.

Item	Cost
<i>Workshop costs</i>	
2 x One day training workshop for 20 ākonga who learn how to refurbish a device, with the aim that there'll be 20 laptops available to be gifted that day	\$7,000
Travel and accommodation for trainers (location dependent)	\$2,000
Parts for 40 laptops, equipment (i.e. screwdrivers, etc)	\$1,000
Freight, logistics, coordination	\$1,000
2 x catered lunch for approx 20 ākonga + trainers and staff	\$1,000
Sub-total	\$12,000
<i>Ongoing costs</i>	
Cost per device - ākonga lead refurbishment @\$190/laptop x 500 (includes management, admin, freight, parts, etc)	\$95,000
TOTAL	\$107,000

www.digitalfutureaotearoa.nz

RAD 2023 End of Year Report.pdf (389 Kb.):



RECYCLE RAD A DEVICE

DIGITAL FUTURE AOTEAROA

End of year report

2023 at a glance

Tēnā koutou katoa,

Kei te mihi ki te whānau o Recycle A Device - tino pai ō koutou mahi. He nui ngā mahi kua tutuki i a mātou. Together, we have achieved so much! In 2023, we gifted 2,374 laptops into the community, and gave out our 4,000th laptop since we began in 2020.

We've had some magical moments. We received two NZ Hi-Tech Awards and the IDC Future Enterprise 'Future of Trust' Award for Australasia. It's great to have this recognition for the hard work our team does and the impact this has for our community, but also to leverage to secure funding, which is our biggest priority and challenge.

Our call to action for you is to consider how you can support our kaupapa in 2024. We need funding. We need used laptops. We need repair clubs established in more schools and communities. At a cost per laptop of \$186.23, Recycle A Device is a very cost-effective, socially and environmentally friendly way to ensure our rangatahi have the tools they need to fulfil their potential!

Ngā manaakitanga,
Bronwyn Scott, General Manager, [Digital Future Aotearoa](#)

"Thank you! This will be a game changer for my kids' education"

\$186	2374	334
Cost per laptop to run the RAD programme	Laptops have been gifted by RAD into the community	Rangatahi have learnt new STEM skills

"We love working with RAD and being a small part of the positive impact that their innovative model creates for schools, rangatahi, communities and the environment"

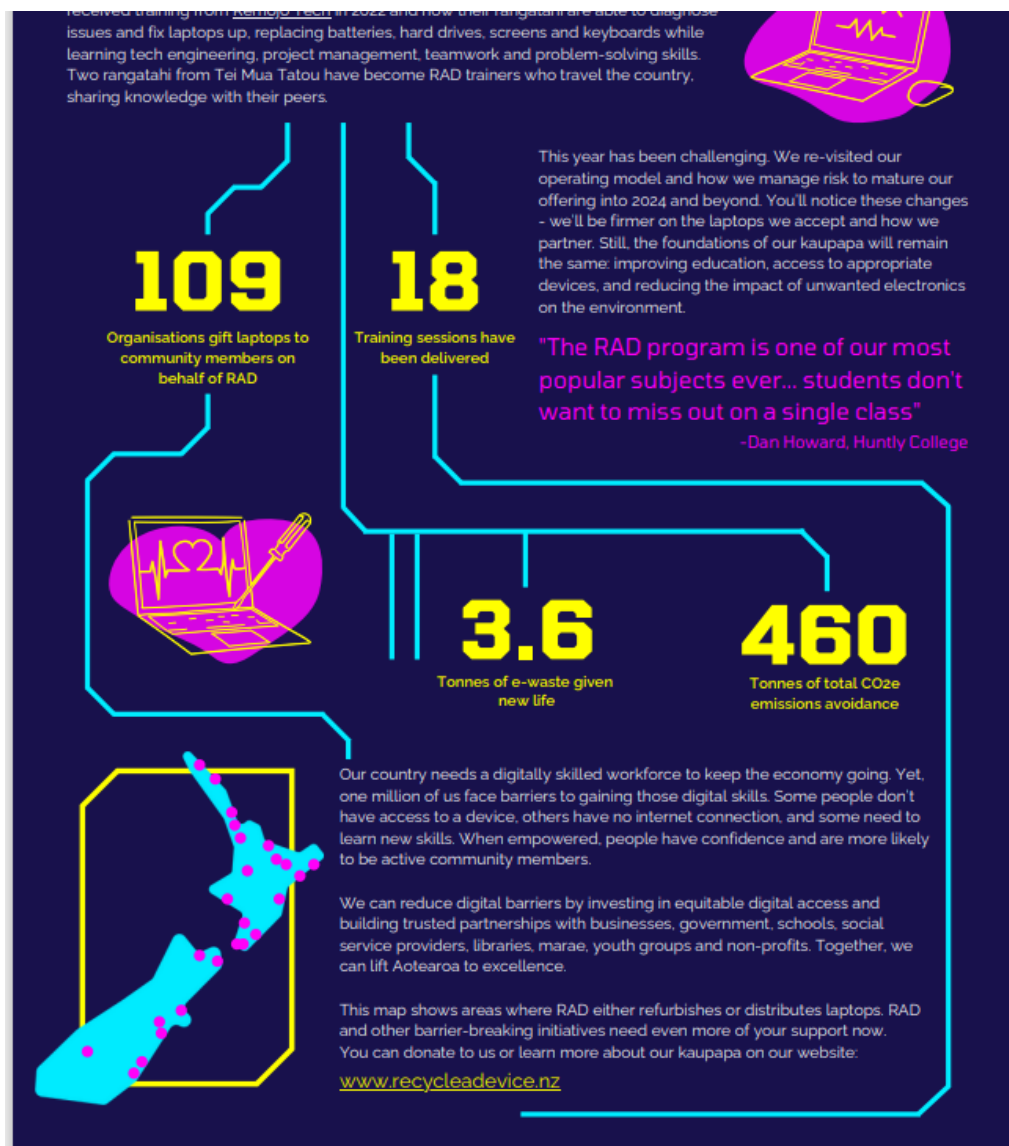
- Julia Jackson, Kiwibank

623 The most laptops repaired by one group

Woohoo! Tei Mua Tatou is based in Māngere and they've been able to repair 623 laptops for their community. Tei Mua Tatou received training from [Remojo Tech](#) in 2022 and now their rangatahi are able to diagnose

Item 7

Attachment I



All Heart NZ Charitable Trust

Q. New Zealand Business Number (NZBN), if relevant R. 9429043359677

****Contact details in applications retracted – request from CWJC administrator.***

Q. Postal address, if different

R. P O Box 300373

Albany

Auckland 0752

New Zealand

Q. First name

R. Caroline

Q. Last name

R. Wearn

Q. Position

R. Business Manager

Q. First name

R. Joseph

Q. Last name

R. Youssef

Q. Total cost of project (\$)

R. \$90,000.00

Q. Amount requested from committee (\$)

R. \$50,000.00

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

R. We have funding from Hoku Foundation to develop our impact nationally in developing corporate sustainability and create positive social and environmental outcomes. We will also apply to National Lottery Committee to develop our work nationally.

These funds, along with our own investment of time and resources will make up 60% of the project cost.

Page 2 of 3 (2/3)

Q. Start date.

R. 01/09/2024

Q. End date.

R. 31/03/2025

Q. Location:

R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.

R. This project involves developing corporate and construction resource recovery leading to waste reduction in the Canterbury region.

All Heart NZ is a profit-for-purpose organisation dedicated to making corporate sustainability simple. Our 'Theory of Change' which was developed in collaboration with Ākina Foundation is that, by raising the sustainability standards and practices of the top 0.5% of businesses in Aotearoa New Zealand, we influence 50% of our workforce and grow a more sustainable society. By developing people and places through All Heart Stores we maximize resource recovery, significantly increasing positive environmental and social outcomes and reducing the amount of waste going to landfill. With the support of CJWC funding in 2023, we partnered with Spreydon Baptist Community Ministries Trust to establish All Heart Store Christchurch as a resource recovery hub serving the Canterbury region. We now intend to target companies to engage our services throughout the Canterbury Region which will reduce the amount of waste going to landfill.

Key Outcomes:

1. Corporates will be redirecting redundant resources away from landfill and to community good by engaging our ReDirect service.
2. Corporates will change their behaviour in terms of their sustainability practices by engaging our ReThink service.
3. Corporates are educated, network and share ideas around sustainability through meetings, events and training opportunities and our impact partners are trained in using our services throughout their business.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Since March 2017 All Heart NZ has diverted over 6 million kgs (6,000 Tonnes) of corporate redundant items from landfill. This is with a 90% diversion from landfill rate. This is equivalent to 4,344 Tonnes of carbon avoided. In the last financial year, 2023 to 2024 we diverted 1,134 Tonnes of corporate and construction items from landfill which is equivalent to 821 Tonnes of carbon avoided. Now that we have established All Heart Store Christchurch as a resource recovery hub in Canterbury (officially opened in May 2024), which is our first site in the South Island, this will significantly increase the amount of corporate waste which could be diverted from landfill. This could be 80-100 Tonnes in the first year, with increasing amounts as the hub is established

Q. Detail any other environmental and/or community benefits associated with this project.

R. Environmental - the amount of waste going to landfill will be significantly reduced because of the increased activity of waste diversion in the region. This will have long term environmental benefits in seeing attitudes changing around sustainable practices of corporates. This contributes to the move to a circular economy solution and ultimately zero waste. This project involves our Impact Development Manager and our ReDirect and ReThink Managers working proactively with corporates in the region to educate and offer our services to increase the environmental benefit.

Community – the establishment of All Heart Store Christchurch has shown the collaboration with local community partners and these relationships will continue and grow. To date we have supported 487 different communities, such as Vision West in Christchurch. A key community benefit is providing opportunities for employment, training, and volunteering, particularly for rangatahi gaining work experience. All Heart Store Christchurch has recently hired Flynn Adamson, a school leaver looking for part time paid work along with an internship. As a member of Volunteering Canterbury, volunteers will also be referred who are looking for work experience. This has a significant impact on the individual, their whanau and the whole community when they are engaged in meaningful work which often leads to paid employment.

Q. Outline the key project stages or milestones.

R. Stage 1: All Heart NZ's team will target our existing corporate clients who have a presence in the Canterbury region and also seek out new opportunities to work with businesses, including:

- Our National Relationships Manager who runs our ReDirect service will focus on corporates in the Canterbury region – for example, she recently visited Europlan, Lincoln University and SF Projects on a day trip to develop relationships and plan an upcoming redirection project.

- Our Sustainability Development Manager who runs our ReThink service will focus on any national clients who have a Christchurch base. All Heart NZ is on a mission to change the way businesses think about sustainability, from procurement to end of life in order to reduce waste throughout their business. For example, we recently carried out a waste audit for one of our Impact Partner, Waste Management's clients.
 - Our National Rangatira All Heart Stores has visited regularly to support the establishment of the Store and will continue to do so, to also embed our community relationships.
- Stage 2: Our Impact Partner Programme is a way for businesses to take their sustainability efforts to the next level. Our Impact Development Manager is a dedicated account manager for 65 Impact and Sustainability Partners we currently work with and will be able to develop these contacts further. For example, we have our Annual Impact Report Event in June which is a chance to network with our partners and encourage their sustainability efforts.
- Stage 3: Follow up our corporate contacts and run a networking event in Christchurch, such as part of our Sustainable Lunch series – which are organised to educate, connect and empower key decision makers and to share ideas of best practice to encourage upskilling in knowledge and practice of corporate sustainability.

Q. Outline the governance structure for the project.

R. Caroline Wearn, All Heart NZ Business Manager will oversee the Project. Anntoinette Du Toit (Impact Development Manager), Julie Knell (National Relationship Manager) and Molly Hicks (Sustainability Development Manager) will work closely with the wider All Heart NZ team and Christchurch All Heart Store in identifying and connecting with local interested businesses. L.J Unuia (All Heart National Rangatira) and Joseph Youssef (Chief Encourager) will provide support. All Heart NZ Charitable Trust is run by a highly competent Board of Trustees – our Board Chair is a professional Chair for commercial businesses, and we have recently recruited two new Trustees, one in sustainable finance and the other a well-known sustainability manager. The Trust was established in October 2016 and has been operating successfully for 7 ½ years with sound governance by the Board and a senior management team overseeing operations.

All Heart Store Christchurch is a locally owned and run Trust - Spreydon Baptist Community Ministries Trust was established in 2008 so is of long standing, with a purpose of providing social services to the wider community. This is with oversight of South West Baptist Church.

Q. What are the measures of success?

R. Engaging more corporates in the Canterbury region to redirect redundant items from landfill and changing their behaviour by rethinking sustainability throughout their business.

Engaging with the local community in the area - businesses, customers, community providers, zero waste specialists. Engaging with corporates in the region to partner on resource recovery projects to contribute to a circular economy. Raising awareness around corporate waste minimisation and sustainability.

Q. Who are the key stakeholders?

R. All Heart NZ, staff, licensed partners, board. Our local partner, Spreydon Baptist Community Ministries Trust and South West Baptist church. Local existing corporate partners we have - such as OfficeMax, The Warehouse Group, Waste Management and Europlan who will be able to redirect more resources through the local hub. Local freight partners - Allied, Business Relocations, SF Projects, Relocate and Affordable Movers. Local community collaborators - 24/7 Youth Work, E tu Tangata, Vision West, ReMarkit, AIM Agape Ministries. National funders such as Hoku Foundation and National Lottery who are supporting our work around Aotearoa New Zealand.

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. All Heart NZ was established in October 2016 and has grown considerably in the last 7 plus years. We have developed a reputation as specialists in corporate resource recovery and have established five resource recovery hubs around Aotearoa New Zealand for corporate and construction waste

diversion. We have developed partnerships with the largest corporates in New Zealand around sustainability and have a database of over 2,200 corporates receiving our comms. We have developed national partnerships around waste minimisation, such as OfficeMax providing end of line or end of life stock to our Stores and waste audits for Waste Management clients. We run a Sustainable Lunch Series each year which has been very successful in Auckland, with high profile speakers sharing their sustainability efforts. This provides an opportunity to network, share ideas and best practice and encourages businesses to change their procurement, waste management and resource recovery efforts. Please see the attached photos with an example of an invitation and comms around a lunch we ran on 17th May 2024. We also network with the Zero Waste Network, Sustainable Business Network and Sustainable Business Council and have funding from a number of sources in the area of changing corporate sustainability behaviour in Aotearoa New Zealand. Joseph Youssef and Julie Knell are founding members of All Heart NZ and Caroline Wearn, the project manager has been with All Heart NZ for 6 years. We successfully completed the project with CJWC in 2023 and opened a new resource recovery hub, All Heart Store Christchurch, in May 2024.

Q. What information will be tracked and evaluated at completion of the project?

R. We will continue to measure our data of: • Number of corporates being offered our services • Number of corporates directly working with us • Number of signed Impact Partners • Weight in kgs diverted from landfill • Diversion rate of items picked up and avoiding landfill • Monetary equivalent of items for community good • Number of communities supported • Number of All Heart Stores • Number of Full Time Employee equivalent across the operations • Number of volunteers across the operations • Number of training opportunities provided We will also be able to share stories of the positive social and environmental impacts of expanding our work which encourages corporates to change their behaviour, raises the sustainability standards and practices of the largest corporates and increases waste minimisation and corporate resource recovery.

Q. What are the key project risks and how will they be reduced or mitigated?

R. 1 Partnering with a local corporate or community who is later found to be unethical or not environmentally sound in their practices - Mitigation: We have trusted partners and, as well as personal recommendations, also carry out research as needed on potential collaborative partners who will be more closely involved in larger aspects of our work. To date we have had no issues with corporate or community partners.

2 Competition from other re-sellers or community organisations in the area offering solutions to corporates for redundant items which do not save waste going to landfill - Mitigation: We have developed close relationships with our competitors which means we work with them, rather than being seen as a threat.

3 Costs are higher than budgeted - Mitigation: Carefully plan, research and budget so there are no surprises.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. . All Heart NZ has a comprehensive Health and Safety process and systems, our Board Chair Ant Carter and CE Joseph Youssef, along with our Office Manager have overseen implementation of all our team using the Safe365 App, and carrying out an external audit by independent auditors, leading to our recent accreditation through Qualify365 as Tōtika accredited (an industry recognised accreditation). We have a current H&S Policy, Manual, documentation and risk assessment process. Our team are trained on using the Safe365 App when attending on client sites and we would comply with any H&S requirements of our own corporate clients when visiting or hosting meetings on their premises.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. Yes

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Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. Our support of corporates to ReDirect and ReThink corporate waste ensures that, rather than a linear economy of 'take, make and dispose', resources are used for a prolonged period and repurposed to have multiple life cycles. Our service redirecting corporate and construction items keeps products and materials in use and maximises the life cycle of these items. In the last financial year alone, we have collected 1,147 Tonnes of corporate items and diverted 90% from landfill which represents 821 Tonnes of carbon avoided. Examples include corporate furniture that has been repurposed, upcycling e-waste, end-of-life and end-of-line products, excess stock as well as kitchens and soft deconstruction. Our ReThink service supports corporates to strategically design and build circular solutions for unwanted resources. Our education and reporting, as well as waste audits, gives corporates the tools to review what products they have and how these resources can remain in use for longer or change procurement practices to reduce waste, such as the packaging type or recycling.

Q. How does the project foster innovation?

R. All Heart NZ's sustainability framework is the first national framework of its kind in Aotearoa New Zealand with the ability to answer the waste created by our corporate partners. While not only focusing on end of life we also offer corporates the tools to embed sustainability in their business practices (ReThink) and have created a pathway to upcycle resources that are not easily reintegrated into the economy, creating employment and education opportunities in the process (our All Heart Stores). Our community hubs are based on an innovative model of collaboration with corporate and community partners, local business, customers, and local government. Collaboration is a paradigm shift within the competitive environment businesses believe they must operate in, and it is our partnerships that puts us in a prime position to provide corporate and construction materials to be repurposed, upcycled and transformed into reusable products. Our ReThink services, while supporting corporates in their sustainability journeys, have as their main goal, the transformation of our society. Our Theory of Change is that by raising the sustainability standards and practices of the top 0.5% of businesses* in Aotearoa, we change the behaviour of 50% of our workforce and indirectly influencing their families and friends – growing the movement for a more sustainable society. *By number of employees: 2840 businesses employ 1,206,800 people.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

- Recycling: Reprocessing waste materials to produce new products.

- Recovery: Extraction of materials or energy from waste for further use or processing, including but not limited to making materials into compost.

Q. How will the project contribute towards one or more of the above?

R. All our work with corporates, including our ReDirect and ReThink services, our Impact Partner Programme and the Sustainable Lunch Series encourages all our corporate clients to join in all these: Reduction, Reuse, Recycle. Reduce corporate and construction waste going to landfill by providing a resource recovery solution for corporate partners. Reuse these products by reselling or donating to be used again in the community. Recycling any items such as metal desk legs if the desktops are unusable.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. The whole project will be to encourage businesses to improve resource efficiency throughout their operations - to grow and improve their commitment to maximise the life cycle of their items -

resources are used for a prolonged period and repurposed to have multiple life cycles. One learning from a recent Sustainable Lunch Series talk, was that implementing sustainable practices can be financially beneficial and does not need to cost more.

We charge a fee for our ReDirect and ReThink service which ensures we are commercially viable as an organisation. Selling the items redirected through our Stores creates funding for the local Store to provide employment, training and volunteering opportunities.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R.

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. The long term impact of educating businesses in the Canterbury region to reduce waste and manage their resources will be huge. The investment of our specialist team's time in targeting Canterbury corporates for new opportunities and to develop our current Impact Partners in the region further, will have significant outcomes for many years to come. The funding of the project will therefore be cost-effective in terms of ongoing reduction of corporate and construction waste going to landfill in the region.

Each time we invoice a corporate with redirected items, this is based on the weight in kgs which we record. We use a conservative estimate of the re-sale value of redundant items which shows the equivalent value for communities receiving this which is \$2.57 per kg.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. As noted above under the experience of the legal entity in waste minimisation, All Heart NZ is now well established in the corporate sustainability field after 7 ½ years. We have a significant track record of developing innovative services to respond to corporate's needs and successfully completed many projects in Auckland and around Aotearoa New Zealand. We have diverted over 6 million kgs of corporate and construction waste from landfill to date and have a dedicated team of experience staff, Board and partners to deliver this project.

Please refer to our website for current details about our Services, Impact Partners, Accreditations and Memberships.

Q. Provide any other supporting information, such as links to websites and social media.

R. Website - Home | All Heart NZ Facebook - All Heart NZ | Auckland | Facebook and All Heart Store | Facebook LinkedIn - All Heart NZ | LinkedIn

[All Heart NZ – For businesses who believe in sustainable operations that positively impact people and our planet.](#)

All Heart NZ Canterbury Waste Joint Committee Corporate and Construction Waste diversion Budget 2024-25.xlsx (12 Kb.):

All Heart NZ Charitable Trust								
Canterbury AHNZ Corporate Sustainability Lunch Series 2024/25								
Budget 1 September 2024 to 31 March 2025								
	September	October	November	December	January	February	March	Total budget
Income								
Co-funding - National Lottery, Hoku Foundation	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$35,000.00
Potential Event income and sponsorship	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000.00	\$5,000.00
Total Income	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$10,000.00	\$40,000.00
Less Cost of Sales								
Venue Hire and Catering	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00
Total Cost of Sales	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,000.00	\$4,000.00
Gross Profit	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$6,000.00	\$36,000.00
Less Operating Expenses								
Advertising - website, social media, CRM	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$14,000.00
Salaries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Business Manager	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$1,000.00	\$4,000.00
Chief Encourager	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$1,000.00	\$4,000.00
Impact Development Manager	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$10,500.00
National Rangatira All Heart Stores	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,500.00	\$7,500.00
ReDirect Manager - National Relationships	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$10,500.00
Office Manager	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00	\$1,000.00	\$4,000.00
ReThink Manager - Sustainability Development	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$10,500.00
Travel expenses - attend meetings and events	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$14,000.00
Utilities - office support, subscriptions eg Dropbox	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$7,000.00
Total Operating Expenses	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$14,000.00	\$86,000.00
Net Profit	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$7,000.00	-\$8,000.00	-\$50,000.00

All Heart NZ Canterbury Waste Joint Committee - Corporate and Construction Waste diversion Photos May 2024.pdf



Canterbury Waste Joint Committee

All Heart NZ Charitable Trust

Corporate & Construction Waste diversion project

1. Example of corporate interaction to develop using our service to redirect items from landfills:

8th May 2024 – Julie Knell, our National Relationships Manager, flew to Christchurch to have meetings with several corporate clients to develop relationships and increase our reach.

Tim Gunther from Europlan (an office furniture provider and designer) is one of our Impact Partners and introduced us to his client, Lincoln University, regarding an upcoming redirection job



Courtesy from Lincoln University, Julie Knell All Heart NZ and Tim Gunther, Europlan



Europian share an office building with SF Projects, another Impact Partner of ours providing freight and logistics services



Tim from Europlan with Scott Baker and Thomas Rudin from SF Projects

Whilst in Christchurch Julie took Tim to visit our newly opened All Heart Store Christchurch

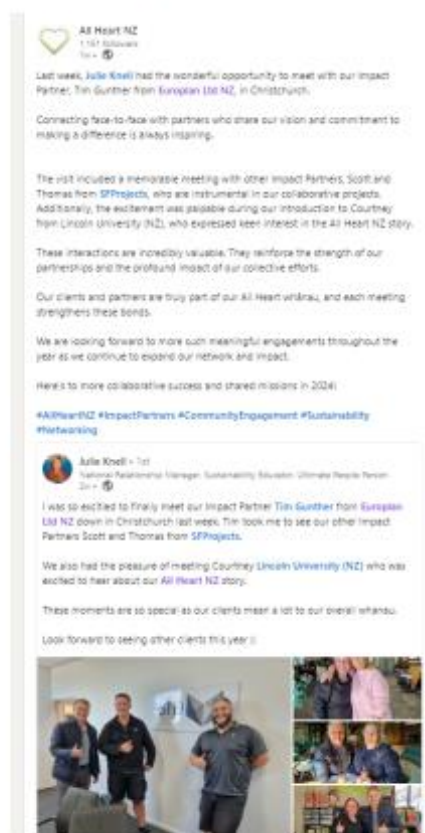


Tim with Alanah Matthews, Store Manager



Julie with Alanah Matthews, Store Manager

Social media post on LinkedIn after the day promoting this to our corporate audience of 1,151 followers on LinkedIn



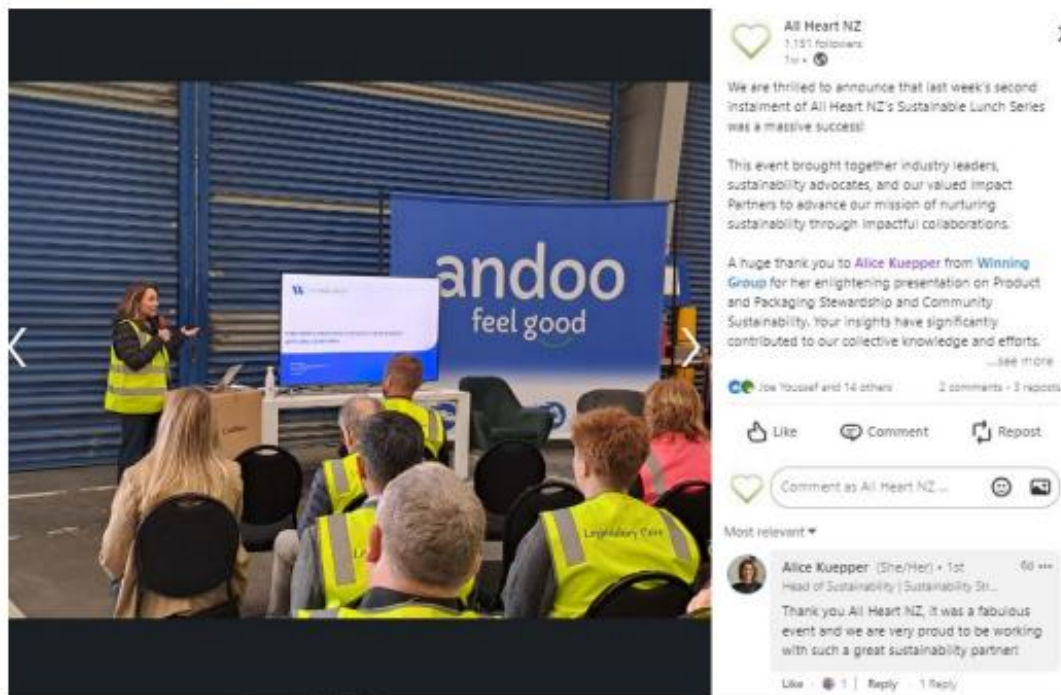
2. An example of our Sustainable Lunch Series to educate, network and support corporates in their sustainability efforts to reduce the amount of commercial waste going to landfill:
Invitation for the event on 17th May 2024 hosted by The Winning Group at Ports of Auckland



Comms promoting the event



Comms after the event

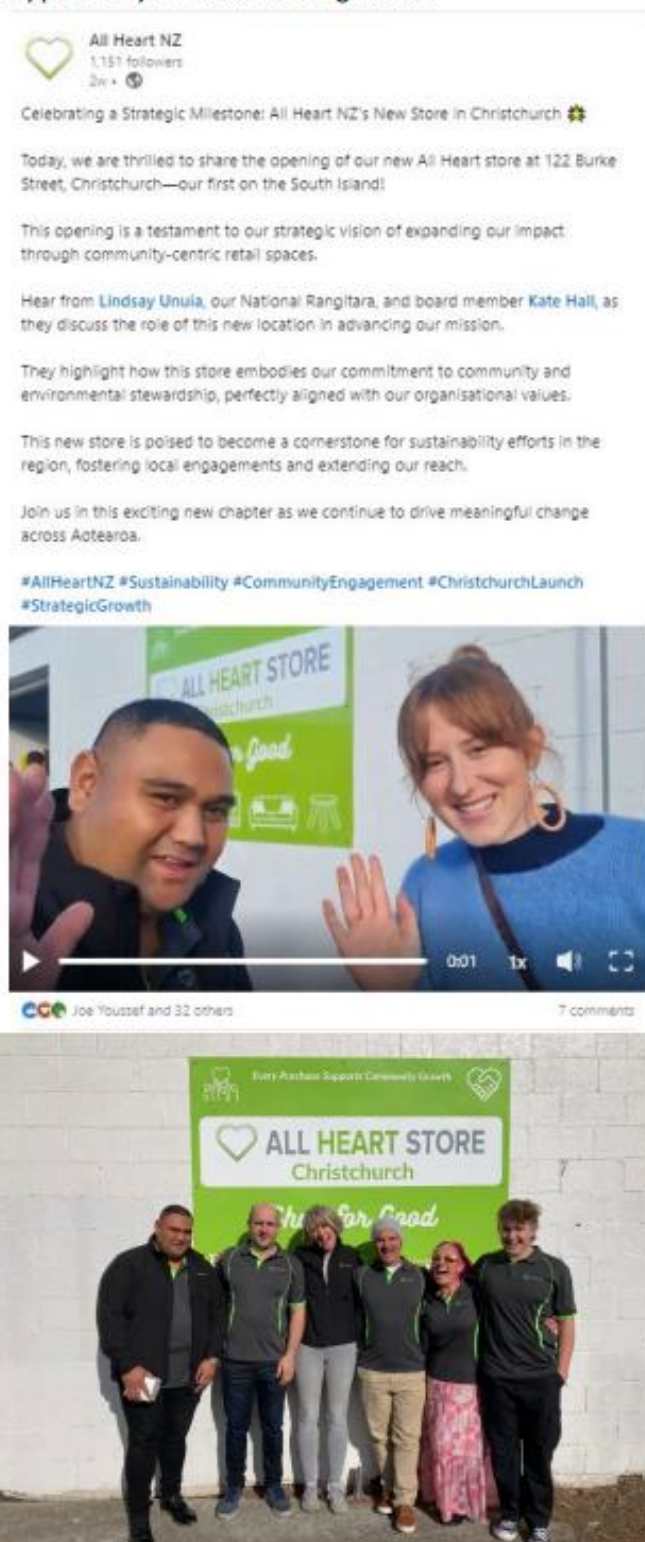


Item 7

Attachment J

3. Opening of All Heart Store Christchurch on 5th May 2024

Comms around our successful establishment of a new resources recovery hub to serve the Canterbury region supported by the CJWC funding in 2023



Sustained Fun Limited

Q. New Zealand Business Number (NZBN), if relevant R. 9429047710481

**Contact details in applications retracted – request from CWJC administrator.*

Q. First name
R. Anthea

Q. Last name
R. Ibell

Q. Position
R. Co-founder

Q. First name
R. Anthea

Q. Last name
R. Ibell

Q. Total cost of project (\$)
R. 17300

Q. Amount requested from committee (\$)
R. 8100

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.
R. Previously we have co-funded ourselves and through in-kind support from local organisations that have run events for the campaign.

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Q. Start date.
R. 31/07/2024

Q. End date.
R. 22/01/2025

Q. Location:
R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.
R. The toy industry is the most plastic intensive in the world with a linear business model based on high consumption of disposable plastic toys.
World Sustainable Toy Day is a campaign launched by Christchurch business, Sustained Fun to shine a spotlight on the environmental impacts of the toy industry and celebrate sustainable solutions. It is held on the 3rd Friday of November (one week before Black Friday) to encourage the public to think about their purchasing behaviours, and to highlight the importance of sustainability heading into the busy Christmas period.

In 2024 we will build upon the campaign by holding in-person and online events that foster a love for nature, connection with family and communities, reduce waste to landfill and increase awareness about the link between toys and climate action.

The theme for World Sustainable Toy Day 2024 is 'Connecting with Nature' and focuses on providing a meaningful connection to nature for young and old, because this has been shown to be a driver or environmental action. "Children's connection to nature, their previous experience in nature, their perceived family value toward nature, and their perceived control positively influenced their interest in performing environmentally friendly behaviors." (Cheng, J. C.-H., & Monroe, M. C., 2012).

The free events will include:

- Waste free water fights using EcoSplat reusable water balloons - reducing waste into the environment and fostering reusable, circular economy solutions.
- Nature treasure hunts that get whanau, school groups and attendees to explore their immediate surroundings and look closely at the natural world.
- Toy repair café - fixing broken toys in turn reducing waste and connecting individuals with sustainable organisations in the community and fostering a 'repair culture'.
- Making toys from waste - creating something useful from waste diverted from landfill, these workshops not only find a new use for waste, but get children and families thinking about the waste they create and sustainable alternatives.

All of these events provide opportunities for people to connect with nature and each other, building a more resilient, environmentally focused community.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Our campaign has two parts: waste minimisation and behaviour change.

Through workshops with local organisations we will divert waste from landfill and with waste free water fights we will be reducing the amount of waste (single use water balloons) entering our waterways. These figures are hard to estimate as we don't yet have the details confirmed.

The behaviour change aspect of the campaign is much harder to measure over time but all of our messaging is backed by peer reviewed science on how to engage children in talking about climate change, the best ways to provide agency for environmental actions and most importantly, doing these in a way that does not increase anxiety around climate change.

Q. Detail any other environmental and/or community benefits associated with this project.

R. The World Sustainable Toy Day campaign has both environmental and community benefits to the community.

The campaign holds the toy industry accountable - shining a spotlight on the environmental impacts of the industry.

Highlights the connection between toys and climate change, as well as the positive impact that sustainable toys can provide towards climate action. Toys that align with a family's values, provide ways for them to foster climate confident kids.

Providing opportunities to repair broken toys reduces waste as well as increases repair 'culture'.

Connecting individuals with organisations that can provide these services (for things other than toys as well), helps form a circular economy network throughout the region.

Making toys from waste provides an opportunity to engage families in kōrero around waste, what is and isn't recycled, sustainable alternatives and create something tangible to take away with them. Creative opportunities for children like this allow for expression of their feelings, discussion and also developing problem solving skills. (Mutch, Carol & Latai, Leua. (2019).) Connecting individuals with families and

nature - this value put on the natural world has shown to increase sustainable living actions, builds trust and resilience in families, which in turn provides support for young people with climate anxiety. By attending in-person events, whānau have opportunities to connect with other attendees, making them feel part of a group/community which in turn enhances collective action for climate change. They are also provided an opportunity to ask questions and have kōrero around climate change and toys.

Q. Outline the key project stages or milestones.

R. Project start date July 2024

Project milestone:

Update resources for 2024 theme - 'Connecting with Nature'

Contact supporter organisations and reach out to new supporters Create resources around the theme for supporters and the general public Organise guest speakers for webinars (for example Toy Libraries, Jiminy Eco Toys) Organise in person events for the day (including sustainable water fight with Airforce Museum, toy repair event, toy making workshop with Creative Junk, nature games with Envirokids, ReDiscover Hub, South Canterbury Eco Centre) Celebrate on the day - 15th November Write up summary report Project finish date 22 Jan 2025

Q. Outline the governance structure for the project.

R. World Sustainable Toy Day is hosted annually by Sustained Fun co-founders Anthea Ibell and Helen Townsend. We will organise and undertake all the promotion and logistics. Local organisations will host their workshops with our support. We will attend, promote and provide Health and Safety paperwork for these.

Q. What are the measures of success?

R. Project success will be measured by:

The number of community groups and schools that participate in the in-person and online events Number of attendees to in-person and online events Engagement on social media (Insta, Facebook, LinkedIn) Website visits to the WSTD website Feedback from participants and parents about how their understanding of the link between toys and climate change has increased.

Photos from events

Stories about from participants, hosts, supporters Publicity through social media, local and national press

Q. Who are the key stakeholders?

R. Canterbury Region

by supporting tamariki to be resilient and climate confident in a time of growing eco-anxiety.

by showing the world that Canterbury is stimulating and hosting kōrero and action climate change wellbeing.

Canterbury Joint Waste Committee

World Sustainable Toy Day's climate education supports the committee's environmental goals of reducing waste in the region.

Waste diverted from landfill through better toy purchasing choices and repairs will directly impact the councils via reduced waste volumes and carbon emissions.

Children

By providing a strong foundation of nature connection, trust and creativity to be resilient and adaptable to climate change anxiety and taking positive environmental actions.

Schools

by providing interesting and relevant activities that they can use in teaching ākonga about connecting with nature, climate change and eco anxiety.

The community

by showcasing local solutions and connecting people with other organisations that are working towards a carbon neutral Christchurch. Eg EnviroKids, Creative Junk and more.

Local business

World Sustainable Toy Day is supported by local retailers such as Smarty Pants, Industria, Yellow Zebra (Lincoln), Unichem Rolleston Central Pharmacy, The Makery (Leeston) and the Airforce Museum. Showcasing sustainable toys and hosting events will increase awareness of eco friendly options that allow families to make climate positive purchasing decisions.

The environment

The environment is a key stakeholder in all of our work - we ensure that we respect and consider all aspects of environmental stewardship in our campaign.

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. Sustained Fun have been hosting World Sustainable Toy Day since 2022 - successfully hosting in person and online events that discuss each year's theme including 'Toys that Last' and 'Towards a carbon neutral toy industry'. With over 25 supporting businesses and organisations both locally and internationally, they have reached over 50,000 people and hosted important conversations with the toy industry and the general public around using toys to create climate confident kids.

Anthea has worked in waste minimisation and sustainability education in Christchurch for over 8 years. Her other company, Remix Plastic has engaged thousands of people around the country in conversations around reducing household waste, promoting second hand shopping as a sustainable alternative to fast fashion and highlighting conservation success stories. Her work with Sustained Fun includes product and packaging design, marketing, managing World Sustainable Toy Day 2022 and 2023.

Acknowledgements include:

Finalist 2024 Ocean Champion Award, Seaweed Finalist 2023 Australian Toy Association Rising Star Award
Finalist 2021 Women of Influence Awards, Business Enterprise category Finalist 2020 Sustainable Business Awards, Communicating Impact

Helen and Anthea have strong environmental networks in Canterbury and New Zealand as well as the support of community groups and organisations to run this campaign.

Q. What information will be tracked and evaluated at completion of the project?

R. Website visits

Resource downloads

Social media reach and engagement

Number of People talked to/contacted (ie number of schools, organisations, meetings) Number of events (ours and others, including in person and online events) Waste from events (last year was 0kg!) Number of supporters Number of local community organisations involved See our end of project report from World Sustainable Toy Day 2023 for examples of this evaluation.

Q. What are the key project risks and how will they be reduced or mitigated?

R. The key project risks include:

- Time dependent tasks not being completed in time - this is mitigated through early organisation and a large buffer before World Sustainable Toy Day to ensure time to correct any errors and adapt to any last-minute changes.
- event attendee injury - all events will have appropriate Health and Safety risk assessments to mitigate any injuries. These will be covered with collaborating organisations well in advance to ensure time to add any risks identified by others.
- Lack of capacity to fulfill all of the campaign goals - receiving funding from CJWC will allow a much wider capacity for personnel. We have also designed all of the campaign marketing materials to be updated easily, embedding future proof designs throughout, allowing for streamlined planning each year.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. The Health and Safety required is covered under the Sustained Fun Health and Safety Policy and accompanying forms and risk assessments. Each workshop/event will have a specific risk assessment to cover all Health and Safety protocol.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. Yes

Page 3 of 3 (3/3)

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. World Sustainable Toy Day promotes a circular economy 'culture' through promoting repair and reuse and provides opportunities for individuals, families and groups to take part in these activities with free events.

The campaign also promotes sustainable purchasing by educating around how to invest in good quality, long lasting toys that provide open ended play.

Q. How does the project foster innovation?

R. The World Sustainable Toy Day campaign is the first of its kind in the world. It connects toys with climate change and this is a space that is completely unexplored by climate action activists and educators until now. By having local events in Canterbury, we have linked local kōrero with global networks and have built further on our foundation of supporters and followers.

The campaign is still new, and entering into the third year we can see a lot of potential for hosting really important conversations around supporting our young people with the stress of climate change.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

Q. How will the project contribute towards one or more of the above?

R. All of our World Sustainable Toy Day events will help educate around reducing waste and keeping toys in use.

For example our waste free water fights educate on the waste created by single use water balloons and the threat they pose for waterways. Reusable water balloons reduce this waste and encourage families to switch to reusable options.

Our making toys from waste workshop will highlight ways to divert waste, and get people thinking about ways to avoid single use waste in their lives.

Toy repair cafes will extend the life of toys that may otherwise be disposed of and empower people to take care of, and fix what they have.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. World Sustainable Toy Day encourages the use of reusable over single use toys - reducing waste in the environment including public parks and rivers.

By promoting sustainable toys (including brands by Sustained Fun) and showcasing local shops that have sustainable toy selections, we are encouraging consumers to purchase longer lasting, more eco-friendly

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LinkedIn [Sustained Fun](#) | LinkedIn

WSTD 2024 budget.xlsx (12 Kb.):

Stage 1: Establishment								
Branding and design for 2024 campaign	600							600
Creating stand alone World Sustainable Toy	2000							2000
Marketing and promotion: meeting with local	1000					1000		2000
Contacting more supporter organisations and	600					300		900
Printed banner and other promotional materials: Futureproof so can use every year						1000		
								0
Stage 2: Organisation								
Contact and propose events with local organisations						600		600
Contact and propose and organise webinar e	600					200		800
Organise and promote events including:						3000		
Drop in at Enviroid kids	100							
Wastefree water fight with Airforce Museum								
Nature Kids tre	200							
Creative Junk waste diversion toy maki		100						
Toy repair café					100			
Press release	600							600
								0
Stage 3: Live events								
Professional Photography	2000							2000
Personel (Including kind support)		400	400	200		1000		2000
Resources for workshops	100					200		300
								0
Stage 4: Assesment and summary								
Gather feedback from participants						400		400
Write up summary report						600		600
Total	7700	500	500	300	200	8100		17300
Percentage allocated	45	3	3	2	1	47		100
In kind	9200							

World Sustainable Toy Day 2023.pdf (6884 Kb.):



Sustained Fun Limited

PROJECT COMPLETION



World Sustainable Toy Day was celebrated on 17th November 2023 with both online and in person events throughout November including:

- Celebration event on Nov 13th at Te Hapua Halswell Library, showcasing local solutions for sustainable toys.
- Webinar for Toy Library Federation of New Zealand and Australian Toy Library Association on the topic of "How Toy Libraries Can Promote Sustainability."
- Waste-free water fights using EcoSplat Reusable Water Balloons with Cashmere Primary School and St Bernadette's School
- Online campaign including showcases and informative blogs.
- Free downloadable resources for groups to initiate kōrero around sustainable toys.

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SUMMARY OF EVENTS

Online campaign

- Blog series including discussion questions for groups and organisations to delve further into the topics:

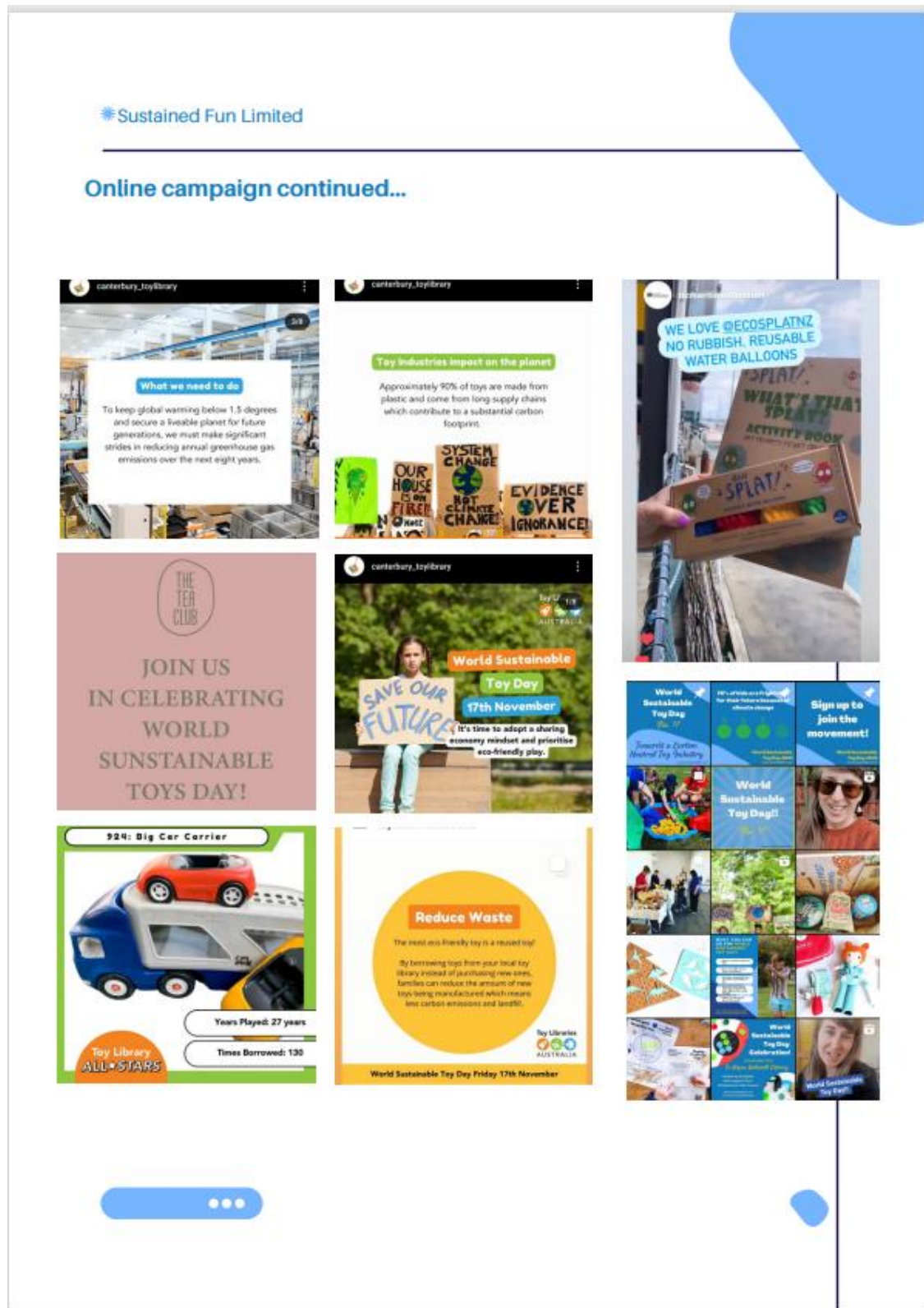
- Earth Overshoot Day: What's the Future of the Toy Industry?
- What's the Carbon Footprint of the Toy Industry? (And does the number matter?)
- Reducing Carbon by Prioritising Quality over Quantity
- How to Measure Carbon Emissions
- Reducing Carbon at Source
- Climate Anxiety
- World Sustainable Toy Day

- Social media posts including toy industry waste statistics; ways to reduce toy waste; the environmental impact of toys.

- Free download activity sheets for schools, shops, organisations and toy libraries.

- Large online reach with organisations creating posts of their own and showcasing the campaign.





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Celebration Event

- Showcased local organisations including Creative Junk - Early Childhood Resource Centre, Halswell Toy Library, Christchurch Envirokids, Earthlove (Honeysticks and Trees that Count), Remix Plastic and EcoSplat Reusable Water Balloons.
- Included a 'Toy Swap' table where people could bring and swap a toy; a toy repair service where two soft toys were fixed.
- Creative Junk offered materials for attendees to make their own marble run and tic-tac-toe games.
- Remix Plastic showcased recycled plastic toys including a spirograph made from 3D printer waste from the Christchurch Libraries.
- Free activity sheets were available for attendees.
- 47 attendees
- Zero waste - no rubbish to landfill.
- Designed posters and info sheets so that they can be used again for future events.



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Webinar

- Online presentation for the Toy Library Federation of New Zealand and shared among members.
- Free downloadable Toy Library Sustainable Toy Audit.



Waste Free Water Fights

- Full day of waste free water fights at Cashmere Primary School and a morning of water fights at St Bernadette's School. 100 EcoSplat Reusable Water Balloons used, replacing single-use ones. 8 classes of average 25 children, ranging from year 1 to 8.
- Water fight was part of the school's fundraising campaign using EcoSplat Reusable Water Balloons to help educate and empower the community to reduce their waste.





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QUALITY

“ Toy Libraries, by their nature, promote a focus of sustainability: encouraging parents to borrow, rather than buy. The Toy Library Federation of NZ was proud to actively promote and take part in World Sustainable Toy Day, and supports the objectives and mission statement that it espouses. Toy Library Awareness Week is an event that occurs annually, and the theme for 2024 is “Play for a Greener Tomorrow”, focused primarily on sustainable play and eco friendly toys that will not only spark creativity, but also help reduce the environmental impact of the toy industry. There is a natural friendship between World Sustainable Toy Day, Toy Library Awareness Week, and The Toy Library Federation as a whole: we have a shared vision and objective to promote safe, fun, sustainable play for all children. We very much look forward to a continued relationship, and joint advocacy of a carbon neutral toy industry.”



Lauren Lincoln, National Coordinator
Toy Library Federation of New Zealand

“ 164 Toy Libraries around NZ
Toy Libraries service approximately 11,120 families, with about 18,000 children on their books. So the impact of a webinar targeted at Toy Libraries, with a sustainability focus, is potentially huge. I do know that several toy libraries also shared the resources and activity and fact pages to their networks as well, so I think the overall reach of this project was very successful.”

Lauren Lincoln, National Coordinator
Toy Library Federation of New Zealand

“ The Halswell Toy Library was happy to be involved in the event. Promoting sustainable toys and education through play is one of our key priorities and promoting this within our community is of high importance to us. Thank you for organising this event.”

Gemma, Halswell Toy Library

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“

Creative Junk's vision is "a world where we recycle, reuse and rethink in a creative, imaginative way" and this aligns so well with the values behind World Sustainable Toy Day.

We were thrilled to be involved in the celebration event at Te Hapua Library - we love opportunities to connect with the community and build relationships that support looking after people and planet.

The World Sustainable Toy Day team have made it so easy to be involved; organising and promoting the event so we just turned up on the day.

We look forward to being involved in future events!

”

Christine Glayson, Manager
Creative Junk Early Learning

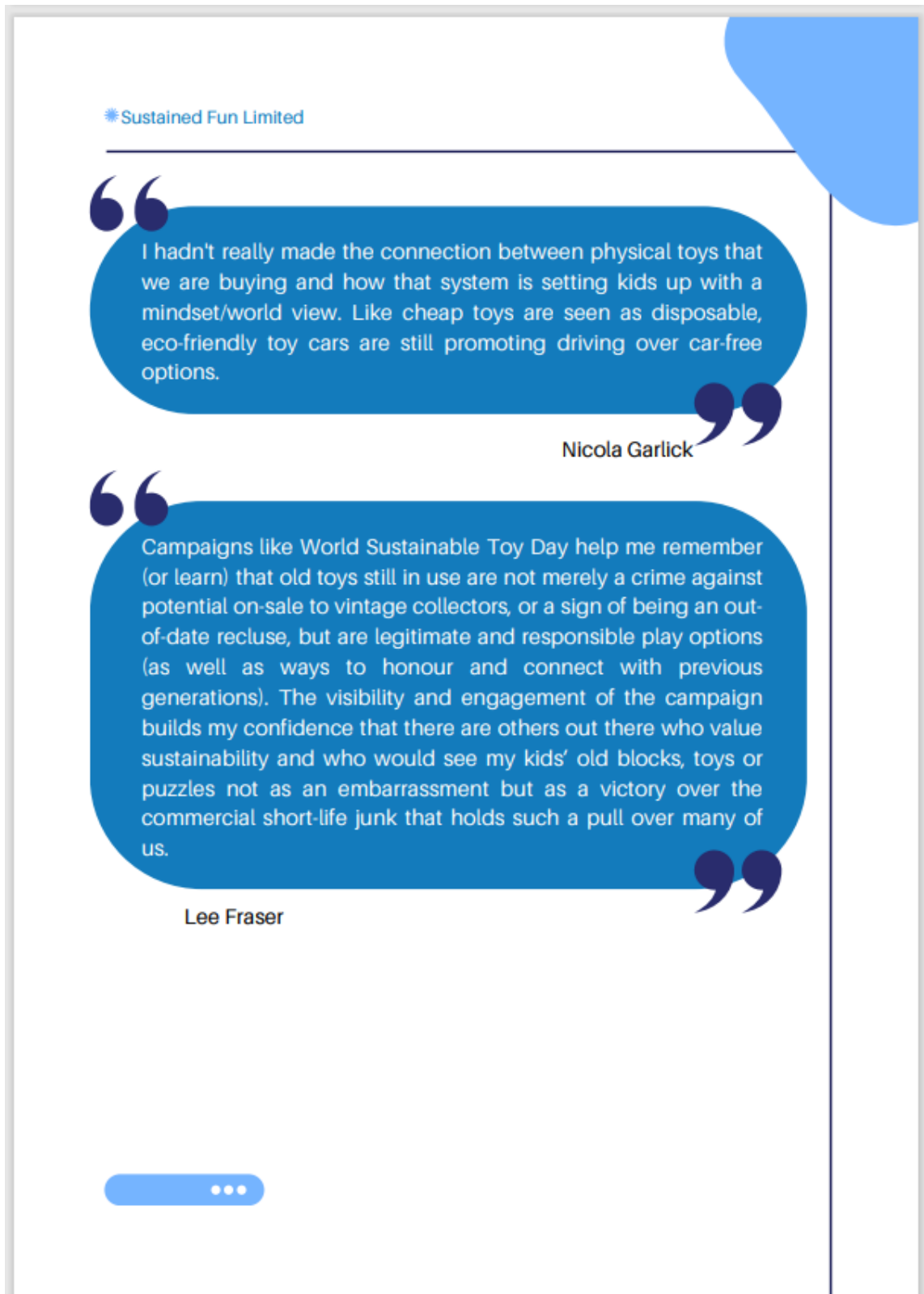


Creative Junk collects unwanted materials from around the community and offers them for sale to the public for use in creative projects.


From early learning materials, props for hire to craft resources, they provide a valuable service to over 380 members (families, groups and organisations) Canterbury wide.

**CREATIVE
Junk**





The infographic features a light blue background with a darker blue abstract shape in the top right corner. It contains two quotes in white text boxes, each preceded by a large white quotation mark. The first quote is by Nicola Garlick from Sustained Fun Limited, and the second is by Lee Fraser. A small blue button with three white dots is located at the bottom left.

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“ I hadn't really made the connection between physical toys that we are buying and how that system is setting kids up with a mindset/world view. Like cheap toys are seen as disposable, eco-friendly toy cars are still promoting driving over car-free options. ”

Nicola Garlick

“ Campaigns like World Sustainable Toy Day help me remember (or learn) that old toys still in use are not merely a crime against potential on-sale to vintage collectors, or a sign of being an out-of-date recluse, but are legitimate and responsible play options (as well as ways to honour and connect with previous generations). The visibility and engagement of the campaign builds my confidence that there are others out there who value sustainability and who would see my kids' old blocks, toys or puzzles not as an embarrassment but as a victory over the commercial short-life junk that holds such a pull over many of us. ”

Lee Fraser

...


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"As a member of the PTA, I supervised a fun-day at Cashmere Primary, in which each year group participated in an EcoSplat eco water balloon fight. It was great to see, not only the joy that this experience brought to the kids, but also the teaching moment around innovative solutions towards sustainability. Exposure to seeing a different way of thinking about traditional water balloons has the potential for kids to reconsider other ways to introduce reusables and alternatives to traditional unsustainable products into our lives. It prompts a normalcy to imagine something different. And boy did these kids also have such a fun day in the process!"

Jenafer,
Cashmere Primary School



Cashmere Primary School fundraised with EcoSplat reusable water balloons in Term 4.




IMPACT

One of the global trends in sustainability is carbon emissions. Measuring, reducing, offsetting, carbon is the buzzword for governments, businesses and organisations. With its very intangible nature, carbon can be quite a confusing topic, especially with the added challenge of identifying green washing.

This topic of conversation is why we chose carbon as the theme for the 2023 World Sustainable Toy Day campaign. When we announced it, we had numerous people tell us they were excited for the opportunity to learning about how toys and climate change are connected and how they can then teach others about it.

Who benefits from World Sustainable Toy Day?



Children are given ecofriendly solutions for toys that align with what is being taught in schools around climate change and climate action.

Climate conscious **parents** are empowered by knowing there are options for toys that align with their values.

Members of the toy industry are engaged in a conversation around carbon emissions and climate impacts of products. Be this manufacturers or toy shops.

Sustained Fun has continued their work educating and empowering whānau to take climate action.

Community organisations have an opportunity to connect with each other and the general public through events and online presence. Toy libraries have been heavily engaged with the campaign and have leveraged it for marketing to their communities.

Christchurch City Council has supported a project that engages the local community in a conversation around carbon emissions and their reduction goals.

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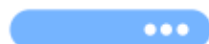
IMPACT

How was innovation and/or sustainability in Christchurch advanced by your project?

The World Sustainable Toy Day campaign is the first of its kind in the world. It connects toys with climate change and this is a space that is completely unexplored by climate action activists and educators until now. By having local events in Christchurch, we have linked local kōrero with global networks and have built further on our foundation of supporters and followers.

Christchurch City Council has ambitious carbon reduction goals and we feel that by supporting World Sustainable Toy Day, they have provided opportunities for local action that will contribute to reaching these targets.

The campaign is still quite new and entering into the third year, we can see a lot of potential. We are already exploring opportunities for World Sustainable Toy Day 2024 and look forward to continuing this work locally, nationally and globally.





FUTURE

World Sustainable Toy Day
Nov 15
Connecting with Nature

www.sustainedfun.com

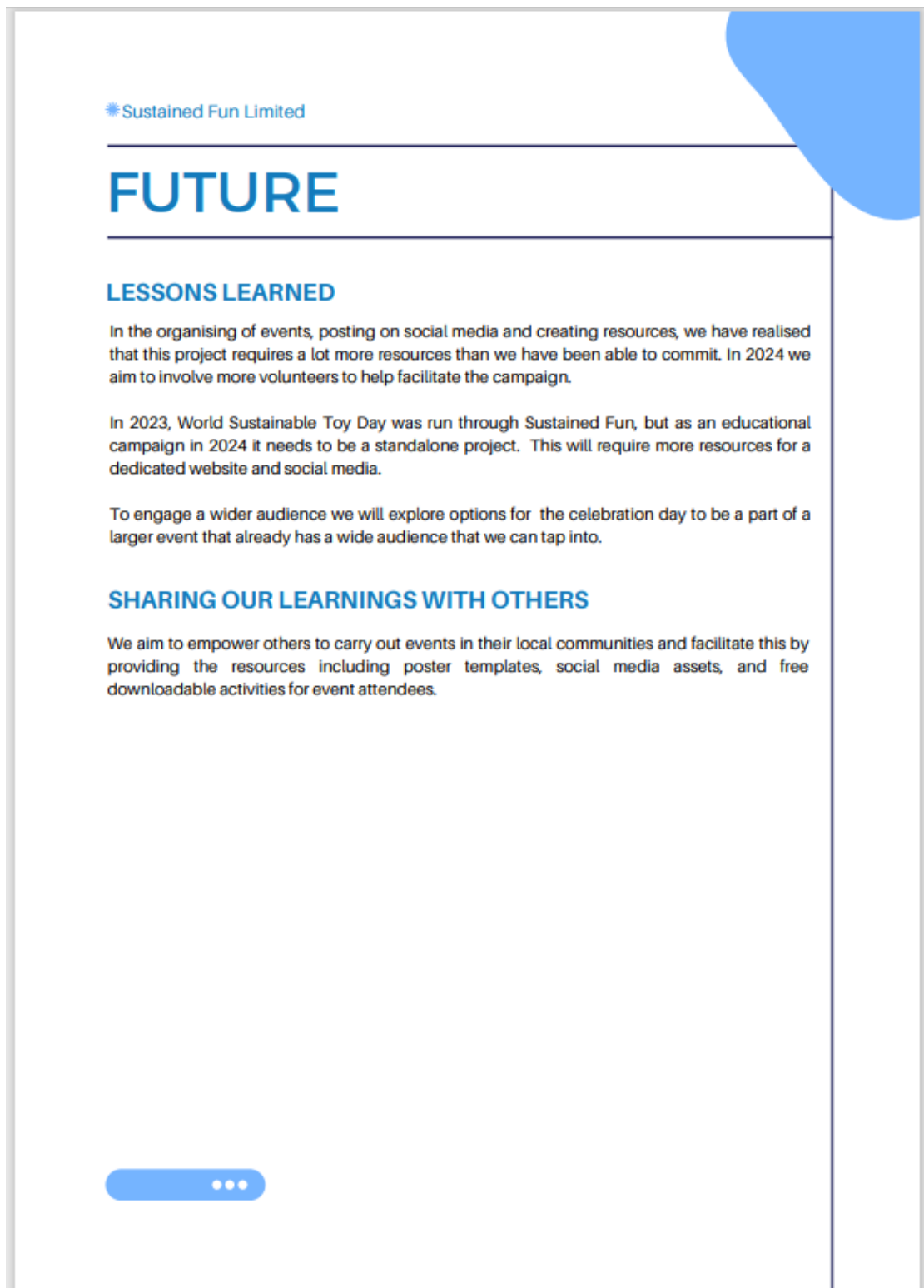
WHAT HAPPENS NEXT?

Following on from the success of both the 2022 and 2023 World Sustainable Toy Day campaigns, we will continue in 2024 with the theme of 'Connecting with Nature'.

We have chosen this theme because there is an appetite for understanding how toys and climate action are connected - this topic will allow us to educate about the importance of fostering a love for the environment through play.

We intend to actively expand our audience to climate conscious parent groups around the world including Parents for Climate Aotearoa and Parents for Climate Australia. We have already started these conversations and are excited about the opportunities to help educate their audiences on the link between toys and climate change.

We alternate between public focused themes and industry focused themes. 2023's theme of 'Towards a Carbon Neutral Toy Industry' was targeted towards the industry players and 2024's theme of 'Connecting with Nature' is public focused. We set the theme based on global discussions and requests from the public.



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FUTURE

LESSONS LEARNED

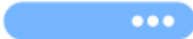
In the organising of events, posting on social media and creating resources, we have realised that this project requires a lot more resources than we have been able to commit. In 2024 we aim to involve more volunteers to help facilitate the campaign.

In 2023, World Sustainable Toy Day was run through Sustained Fun, but as an educational campaign in 2024 it needs to be a standalone project. This will require more resources for a dedicated website and social media.

To engage a wider audience we will explore options for the celebration day to be a part of a larger event that already has a wide audience that we can tap into.

SHARING OUR LEARNINGS WITH OTHERS

We aim to empower others to carry out events in their local communities and facilitate this by providing the resources including poster templates, social media assets, and free downloadable activities for event attendees.



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FINANCIAL ACCOUNTABILITY

Between applying for and receiving funding from the Council, we had reduced the scope of the 2023 campaign as we could see we wouldn't have resources to do the teacher workshops/working groups we had initially set out to do.

The online and local events were carried out as proposed with a few adjustments to the organisations involved based on availability. When organisations were not able to be present at the in person events, accommodations were made to include their fliers, displays etc to still promote their work.

FUNDING BREAKDOWN

Total budgeted: \$15,400
Council allocated \$8,900 (58%)
In kind Budget \$6,500 (42%)

Total spent: \$7,870
Council funding \$4,200 (53%)
In kind \$3,670 (47%)

See attached budget for full details.





Waste-Ed with Kate Ltd

Q. New Zealand Business Number (NZBN), if relevant R. 9429033762005

****Contact details in applications retracted – request from CWJC administrator.***

Q. First name

R. Acacia

Q. Last name

R. Davis-Pio

Q. Position

R. Program Coordinator

Q. First name

R. Acacia

Q. Last name

R. Davis-Pio

Q. Total cost of project (\$)

R. \$92,081.00 + GST

Q. Amount requested from committee (\$)

R. \$51,387.60 + GST

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

R. We have secured sponsorship in the form of a discount from our suppliers, to allow for more products to be provided to students in the region.

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Q. Start date.

R. 01/07/2024

Q. End date.

R. 01/07/2025

Q. Location:

R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.

R. We are proposing to deliver our “Waste Free Period Program” to at least 22 Secondary schools in the Canterbury region.

Alongside the education, at these sessions, we can provide each school with 100 reusable period products, that would be provided for free to the students who attend.

After the session is completed, we provide students with a feedback form to complete, which allows us to report back on the impact of the program.

Students are also provided with a video module follow up package to further their learnings and assist with any trouble shooting.

The Waste Free Period Program is an initiative that aims to educate students and staff about the reusable options that are available to manage their period/menstrual cycle. Navigating a life-changing experience such as a period can be an overwhelming time especially with the amount of information that's out there.

Our Waste Free Period Program uses an interactive presentation to empower students to embrace their cycle while also encouraging them to make informed decisions when choosing which product is best for themselves and the environment.

In this day and age there are more options than ever to manage a period and often these are single-use products, however, this program aims to dive deeper into reusable options.

The targeted outcomes are:

- Educate as many students as possible in the target secondary schools
- Provide an unbiased educated knowledge base to the students to allow for informed decision making for those educated.
- Inspire a portion of the students to make the switch to reusable products, resulting in positive social outcomes for the individual, and positive environmental outcomes for the region due to the reduction in single use waste.

We would target the below schools:

Mount Hutt College, Hagley Community College, Lincoln High School, Mairehau High School, Riccarton High School, Twizel Area School, Craighead Diocesan School, Mountainview High School, Kahui Ako - Roncalli conjoined schools, Kaiapoi High School, Kaikoura High School, Amuri Area School, Opihi College, Oxford Area School, Hornby High School, Rolleston College, Rangiora High School, Darfield High School, Ashburton College, Craighead Diocesan School, Waimate High School, Mackenzie College

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. According to 2017 statistics, there are 1.3m women of menstruating age that are disposing of an average of 348 million tampons per year into our landfills. This equates to 4.9 tonnes of menstrual waste per year.

Our education is centred around the use of reusable products, which when used, reduces the amount of waste a user is sending to landfill significantly.

We are unable to exactly quantify the exact number of people who will switch to reusable products, so are unable to estimate the waste diversion, but we do report back on students intentions to try reusable products. A high level estimate based on the products that are resourced through this program is:

For a 5-year period, it is estimated that someone will typically use 1500 individual single use products (Whether they use internal or external products). If all 2200 products as part of this program are used to their fullest capacity, over a 5 year period we could see a reduction in single use Period products going to landfill of 3.3million individual products.

Each of these diverted products are also obviously packaged individually, so there is a diversion of these from landfill as well.

Q. Detail any other environmental and/or community benefits associated with this project.

R. As discussed in the previous questions, not only does the region benefit from the reduction of single-use waste, the students educated will be empowered and inspired by the education. The switch

to a reusable period product is a long-term money saver, and will provide greater social outcomes for the community.

We also see those who are educated, passing on the knowledge to friends and family too, extended the benefit of the education beyond just those who are able to be in the room on the day.

Teachers who attend the session are also then educated and upskilled on the products should they get further questions.

Q. Outline the key project stages or milestones.

R. 1. Initial engagements with schools phone calling/emailing.

This can begin as soon as the funding is confirmed, as giving Schools as much time to plan as possible is crucial.

2. Booking in a time slot with each school.

Once initial interest is gained, we can begin to book the schools into efficient trips.

3. Presenting within the school.

Delivery will be arranged as per the booked schedule, and will play out throughout the duration of the project.

4. Survey collection on the day + staff surveys in the following week(s).

At the end of each session, surveys are provided to the students, and then we send out a link for staff to enter their feedback digitally.

5. Reporting.

When the entire program worth of deliveries is completed, we compile a report outlining the impact and reception of the program.

Q. Outline the governance structure for the project.

R. There is no specified governance structure needed for this program. Our team of three all play a role in the deliverance of this program, and assistance from Council or Committee staff/members is completely optional.

Q. What are the measures of success?

R. • All 22 schools will have received a 1-hour long presentation.

• All products provided will be provided to interested students and the remainder left with school nurse/teacher in charge for later distribution. This is an option we like to provide as some students will be too "shy" to take product in front of others.

• Minimum of 2,000 students will be educated on reusable menstrual products once the program has concluded.

• Positive and constructive feedback from students and staff at all schools that receive the education.

Q. Who are the key stakeholders?

R. Canterbury Joint Waste Committee.

Canterbury Region.

Waste-Ed with Kate

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. This program originally started with a trial at Timaru Girls High School in 2017 and has been ever-growing since then. In this time, Waste Educator and Director, Kate Fenwick has been taking these

sessions herself and has employed a full-time staff member to oversee and coordinate the entire program.

This program has been run from as far south as Queenstown and as north as Kaipara/Whangarei. In 2023, the program grew and is now offered in over 20 council areas and reaches over 60 schools per year. With two available presenters, our ability to deliver the project is extremely strong. Please refer to the previous CJWC report to further learn on our ability to deliver this, and other program reports can be provided on request.

Q. What information will be tracked and evaluated at completion of the project?

R. To quantify the results of this initiative, we will ask teaching staff as well as students at each school to provide feedback following the presentation.

Data collected post-presentation will include: Whether they thought the program was valuable, how likely they are to use reusable products moving forward, and what their information takeaway from the presentation was.

One (1) month post presentation, a follow up email with an online survey will be sent to all schools for follow up responses. Data collected during this time will include: Which product(s) do you take home after the presentation? Have you tried reusable products since going to the presentation? If you have decided to not use reusable products, what is the main reason?

Q. What are the key project risks and how will they be reduced or mitigated?

R. Union/teacher Strikes

In the past union strikes meant that students had a lot of scheduled time off school and caused many issues for us when trying to book in sessions, such as:

- Limited available days to present
- Reluctancy to book a session
- o Caused by Senior Leadership Team (SLT) members being concerned that their students were missing out on valuable learning time.

Unfortunately, unforeseen circumstances such as teacher strikes are out of our control but we are very aware of the likelihood of them occurring and can manage this risk by maintaining consistent contact with each school leading up to the event.

We also have a local (Christchurch based) facilitator who can present the session at alternative dates if the originally booked date no longer suits, which means we don't have to travel down on a standalone day.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. When entering any school facility we are under the health and safety of each school and will abide by their procedures and instructions.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. The program does not require any resource consent from regional council or territorial authority.

Q. Is your activity an existing permitted activity?

R. Yes

Page 3 of 3 (3/3)

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. As this program is not a physical product, the main circular economy principle to be considered is around the products given out to the students.

The products provided are Menstrual Cups, and Reusable Menstrual Pads, which are reusable, washable products, designed to last a long time. Each use of these products eliminates the need for a single use product to be used and disposed of.

Q. How does the project foster innovation?

R. Our program is forever being updated, reworked and developed to be as educational and entertaining for the student audience. We have recently developed interactive elements to further engage students, and cement the learnings of the talk.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

Q. How will the project contribute towards one or more of the above?

R. The Waste Free Period Program encourages and rangatahi (young people) to start to reduce the amount of disposable menstrual products they might use by moving to reusable menstrual products. The program also covers the correct disposal of single-use menstrual products and the repercussions of flushing tampons/disposable pads.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. Increased use of reusable products results in less single use products to be required to be created.

These learnings around a very specific product may also flow on to other behaviour change in other aspects of life.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. Yes

Q. How does the project reduce any hazardous substance or production of hazardous waste?

R. Yes, as reusable products also ensure that potentially hazardous human waste is not disposed into the general waste stream.

Q. Does the project:

R. - Improve health and safety for waste collectors, personnel working at transfer stations or sorting facilities?

- Remove or reduce a waste stream that may enter a waterbody?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. The key aspects of this project that are cost-effective are:

- School sessions are booked into "Trips", where we try to get to as many of our target schools in the smallest amount of time. This could be during an existing trip to the region for other work, or an efficient stand alone trip.

- Large amount of processes and resources that have already been developed outside of this project and funding, that are able to be used to administer and deliver this program.

- Existing relationships with some of the high schools allows the admin budget to be reduced compared to cost of programs for areas that we have never delivered in before.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. This program originally started with a trial at Timaru Girls High School in 2017 and has been ever-growing since then. In this time, Waste Educator and Director, Kate Fenwick has been taking these sessions herself and has employed a full-time staff member to oversee and coordinate the entire program. This program has been run from as far south as Queenstown and as north as

Kaipara/Whangarei. In 2023, the program grew and is now offered in over 20 council areas and reaches over 60 schools. With two available presenters, our ability to deliver the project is extremely strong. Please refer to the previous CJWC report to further learn on our ability to deliver this, and other program reports can be provided on request.

Q. Provide any other supporting information, such as links to websites and social media.

R. Our website is: [Waste Education with Kate — Waste-Ed with Kate \(wastedkate.co.nz\)](https://wastedkate.co.nz)

Social media: Instagram - wastedwithkate, Facebook: Waste-Ed with Kate The past report for CJWC is attached, and please request if you'd like to see any additional reports for when the project was completed in other parts of the country.

Quote QU0192.pdf (139 Kb.):



DRAFT QUOTE

Canterbury Joint Waste

Date
31 May 2024

Quote Number
QU-0192

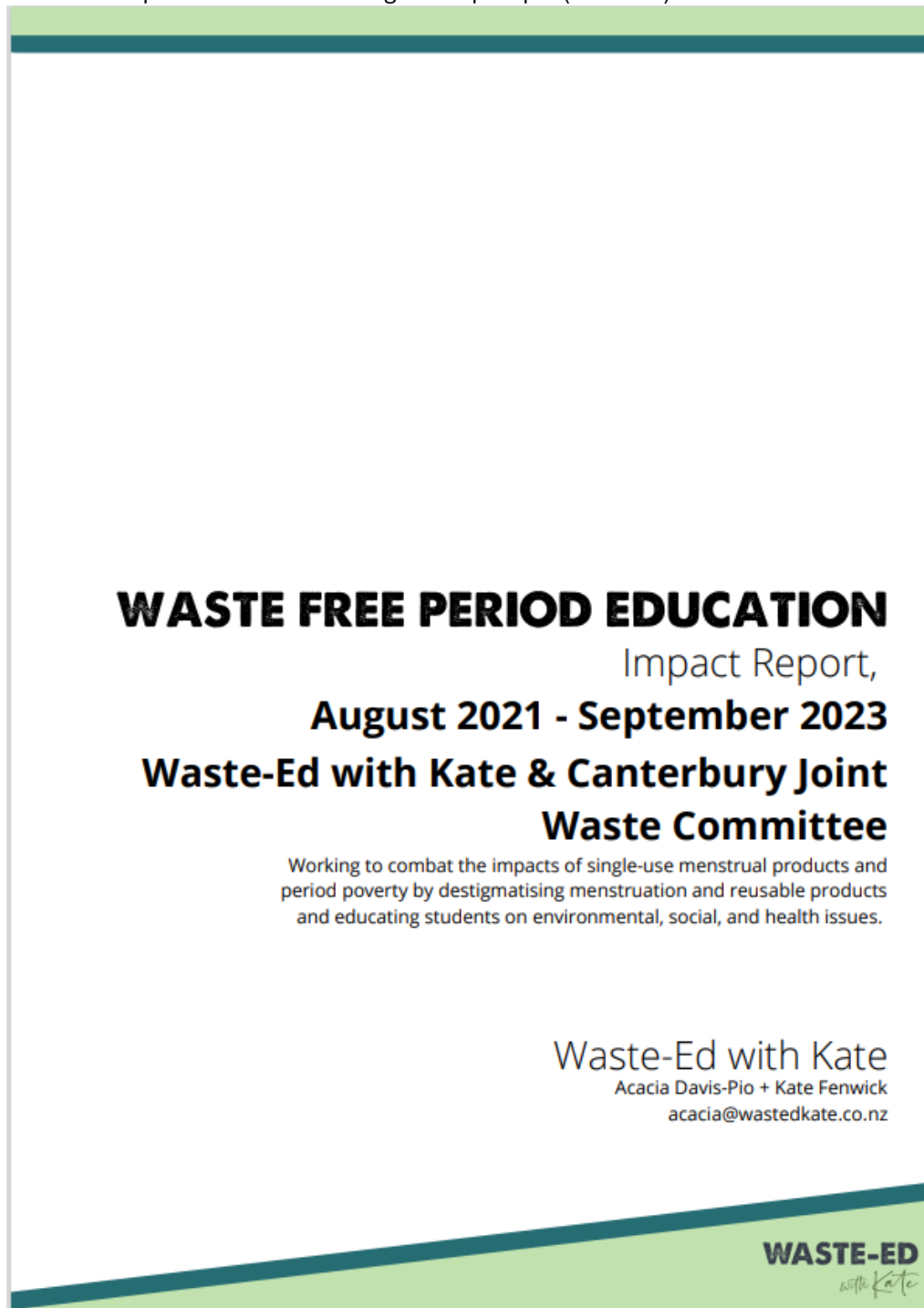
Reference
2024 School Sessions

GST Number
95-230-172

Waste-Ed With Kate Limited
18 B Earl Drive
Katikati 3129
NEW ZEALAND
Phone 027 22 11 242
Email
kate@wastedkate.co.nz

Description	Quantity	Unit Price	Discount	Amount NZD
Waste Free Period Workshop - 1 School	22.00	1,310.00		28,820.00
Includes: 6 x Hours admin: Including working with council, contacting schools to gauge interest, then booking and setting up the program and products per school / group (\$570) 1 x Facilitation of program per school / group (\$450) 1 x Provision of online resource module videos for extended learning (\$100) 2 x Hours Reporting/Following Up per school (\$190) = \$1310 admin / set up and facilitation				
Period Products for 22 schools. Per school: 50 reusable pads x \$7 - \$350 50 menstrual cups x \$9 - \$450 Cost: \$800 RRP value: \$2650+	22.00	2,650.00	69.80%	17,606.60
Travel Expenses recharged to council:	1.00	4,565.00		4,565.00
Where possible, we would combine the travel with an existing trip into the region.				
We currently have a trip confirmed to Christchurch in September 2024, and March 2025. There would still be cost as we would need additional rental cars etc.				
This quoted cost is a high level estimate due to the unpredictable nature of travel costs.				
If there are any additional funds saved through efficiency savings, this can be funnelled towards extra products for the students.				
Fastway Yellow Sticker - to south Island To courier the products down to the hotel ahead of our arrival. (2 schools per box)	11.00	36.00		396.00
Subtotal (includes a discount of 40,693.40)				51,387.60
TOTAL GST 15%				7,708.14
TOTAL NZD				59,095.74

CJWC - Completed 2023 Period Program Report.pdf (6126 Kb.):



Item 7

Attachment L

BACKGROUND

ENVIRONMENTAL IMPACT OF TAMPONS

According to Statistics New Zealand (2017), there are approximately 1.26 million women of menstruating age (12-50 years old) who together use around 350 million tampons per year.

This equates to around 5,000 tonnes of waste being sent to New Zealand landfills every year that can take hundreds of years to break down.



HEALTH IMPACT OF TAMPONS

Tampons are typically made of bleached cotton and various plastic materials. However, as they are not classed as medical products in New Zealand.

Manufacturers are not required to provide detailed product information (including manufacturing processes). This means there's a lot of grey-area in terms of their health implications.

One of the known risks being Toxic Shock Syndrome.

PERIOD POVERTY

'Period poverty' is a multifaceted issue that involves the inaccessibility of menstrual products for women experiencing financial hardship or from low-income families.

A 2018 KidsCan survey found that approximately 29% of young women under 17-years-old have missed school or work due to not having access to menstrual products.



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BACKGROUND CONT.

REUSBLE MENSTRUAL CUPS



Typically made from medical-grade silicone, reusable menstrual cups can last 10+ years.



They can be used for up to 12 hours at a time before being removed, rinsed and reused, and sterilised between cycles. This makes them a much safer, healthier, less stressful, and more environmentally friendly option than tampons.



Menstrual cups are the most cost-effective menstrual option – approx. \$0.25/month as opposed to \$10/month for tampons.

REUSBLE MENSTRUAL PADS



Typically made from layers of an absorbent fabric with a waterproof backing and snap closures on the wings, reusable menstrual pads work in the same way as disposables do, but without the chemicals and rubbish.



They can be used for 4-6 hours at a time before being folded, bagged, and washed when convenient, making them ideal for teenagers and those who prefer external menstrual products.



Reusable pads cost approx. \$2.50/month as opposed to \$9/month for disposables and can last up to 5 years, making them an extremely cost-effective and sustainable choice.



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SUMMARY

The Waste Free Period Education initiative aims to destigmatise menstruation and reusable menstrual products, equipping students with the knowledge and tools to make informed decisions and handle their periods without so much of the emotional and financial stress it often comes with.

The 'Waste-Ed with Kate' team spoke with students from **Years 6 to 13** (and/or staff members) in groups of **10 to 300** people. Familiarising over **2,900** people with the concepts of waste minimisation and reusable menstrual products.

OUTCOMES

PROGRAM REACH

26

In-person Sessions/
Schools Visited

37 +

Online Sessions

2900 + Students engaged during in-person sessions

PRODUCTS PROVIDED

370

MENSTRUAL CUPS

1480

REUSABLE PADS

300

PERIOD UNDERWEAR

During this round of sessions we were very generously donated 300 pairs of period underwear to giveaway to students. These were donated by AWWA Period Care.

AWWA

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PARTICIPATION

All schools who participated in the CJWC Waste Free Period Program have been listed:

Council	School	No. of Students	Session Type
Christchurch	Hagley Community College	70	2 x In-person
Christchurch	Riccarton High School	200	1 x In-person
Christchurch	Mairehau High School	70	1 x In-person
Christchurch	Hornby High School	90	1 x In-person
Selwyn	Lincoln High School	25	1 x In-person
Selwyn	Darfield High School	315	1 x In-person
Selwyn	Rolleston College	300	1 x In-person
Waimakariri	Rangiora High School	20	1 x In-person
Waimakariri	Kaipoi High School	200	1 x In-person
Waimakariri	Oxford Area School	129	1 x In-person
Ashburton	Ashburton College	530	2 x In-person
Ashburton	Mount Hutt College	145	2 x In-person
Hurunui	Amuri Area School	60	1 x In-person
Kaikoura	Kaikoura High School	75	1 x In-person

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PARTICIPATION CONT.

Council	School	No. of Students	Session Type
MacKenzie	Twizel Area School	40	1 x In-person
Timaru	Craighead Diocesan School	200	2 x In-person
Timaru	Mountainview High School	160	2 x In-person
Timaru	Roncalli College	100	1 x In-person
Timaru	Opihi College	120	2 x In-person
Timaru	Kahui Ako - Conjoined Schools Timaru	50	1 x In-person

ONLINE SESSIONS

To extend the education, every initially targeted school was provided with our online learning modules to complete at a time that suited them.

At the time of writing not all schools have take up this opportunity as of yet but they will have this opportunity in 2024.

This is to provide the education to as many students as possible, given the disruptions caused throughout this program as already mentioned.

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PARTICIPATION CONT.

Council	School	No. of Students	Session Type
MacKenzie	Twizel Area School	40	1 x In-person
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RESULTS

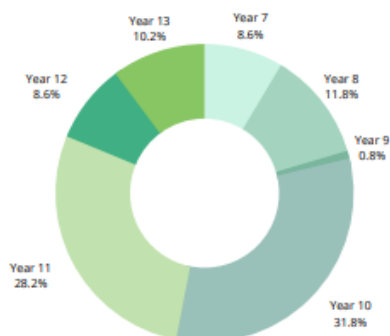
To evaluate the success and impact of the initiative, the respective contacts from each school, as well as any student who wished to, were asked to complete a survey. Something of note when reading this report is that this program has been carried out over a two-year period and in this time our data collection method has changed.

For majority of these sessions, we used online Google Forms to collect data from staff and students. With this method, **125 responses** were received from students. This response rate was rather disappointing considering this method was used in over 20 schools, where over 2,120 students were educated. The online method requires us to follow up numerous times for more response. In this case each school was followed up approx. 3 times to be distributed to students again.

We discovered that we were having this same issue in numerous programs and decided to trial a paper survey data collection method. With this method, **122 responses** were received from students. This response rate was considerably more effective seeing as this method was used in only 6 schools, where 770 students were educated.

Although some questions were provided in both data collection methods, others may pertain to paper surveys or online surveys only. The results of these surveys are as follows:

STUDENT REPRESENTATION



STAFF REPRESENTATION

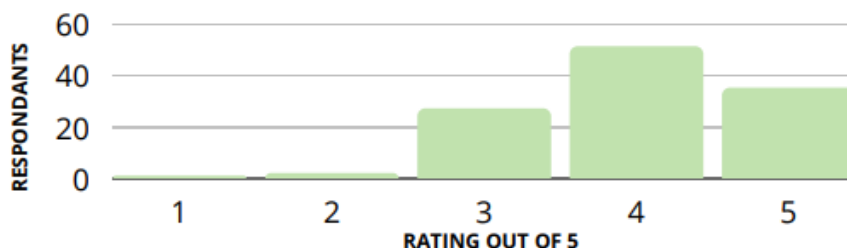
School	Responses	School	Responses
Mt Hutt College	1	Kaikoura High	1
Riccarton High	1	Roncalli Collge	1
Ashburton College	2	Craighead Dio	1
Hagley Community College	1	Ophi College	1
Kalapoi High	3	Hornby High	3
Amuri Area School	1	Rangiora High	1
Lincoln High	1	Darfield High	1

245 students and **20** staff members returned surveys once completing a Waste Free Period Program in 2022/23.

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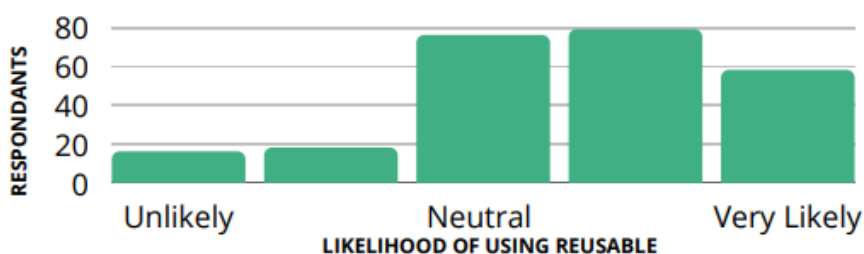
STUDENT FEEDBACK

RATING OF PROGRAM DELIVERY - ONLINE METHOD



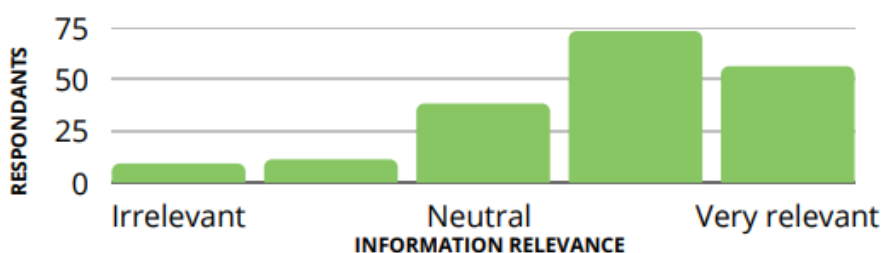
The program was well received, with majority rating the presentation 3 out of 5 or higher. More specifically, of the **125** online respondents, **68.8%** of survey responders rated this program 4/5 or higher.

LIKELIHOOD OF USING REUSABLE - BOTH METHODS



Majority of survey responders are likely to use reusable menstrual products to manage their period. Of the **245** respondents, **55.5%** said they are likely or very likely to use reusable products to manage their period.

INFORMATION RELEVANCE - BOTH METHODS

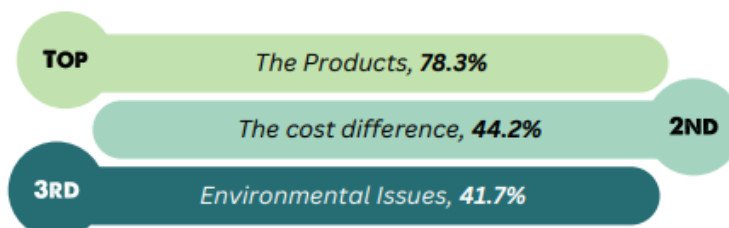


Majority of survey responders found the information provided to them relevant. Of the **245** respondents, **72.8%** said that the information provided was relevant or very relevant for them.

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STUDENT TAKEAWAY MESSAGES - PAPER METHOD

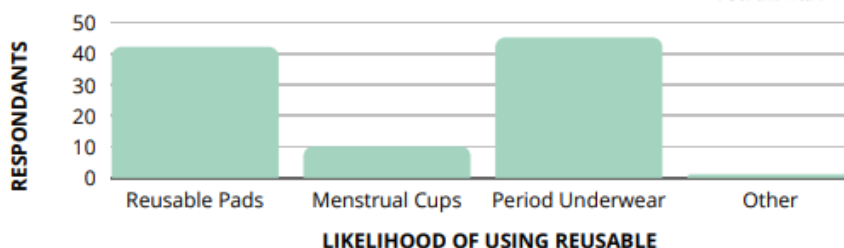
When students were asked "What is something you will remember from this talk?" the top 3 answers were as follows:



Notably, **40.8% of students** also said that something from the talk they would remember is to **'Normalise Periods'**.

WHICH PRODUCTS ARE STUDENTS INTERESTED IN?

- PAPER METHOD



LIKELIHOOD OF USING REUSABLE

Majority of survey responders were mostly interested in trying **Period Underwear** and were least interested in **Menstrual Cups**. These results are expected considering the age group of students present in the talks where paper surveys were provided. Younger people who menstruate or are yet to start menstruation typically drift towards external products such as Pads & Period Underwear because it is initially easier to use.

Additionally, of the **122 respondents**, only **one (1)** respondent, said they would prefer to use disposable products over reusable.

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STUDENT COMMENTS

The presenter was clearly very passionate and really informative, it helped a lot and really made an impact on the opinions I had about reusable period products. There is a lot of stigma around reusable period products and the presentation was really helpful to squish all of that information.



I would never had had the opportunity to get one of these products without this program!

She was funny, easy to listen to. It helped that she was a bit closer to our age group.



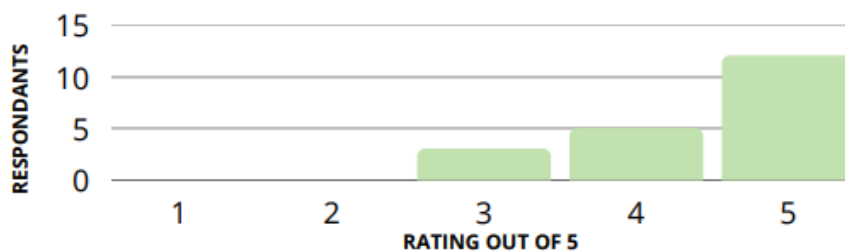
I think learning about the different ways to take care of our periods is good especially for girls that don't know about them.

STAFF FEEDBACK

Although online surveys have been proven to be a more difficult method of data collection with students, this is not the case with school staff members/teachers.

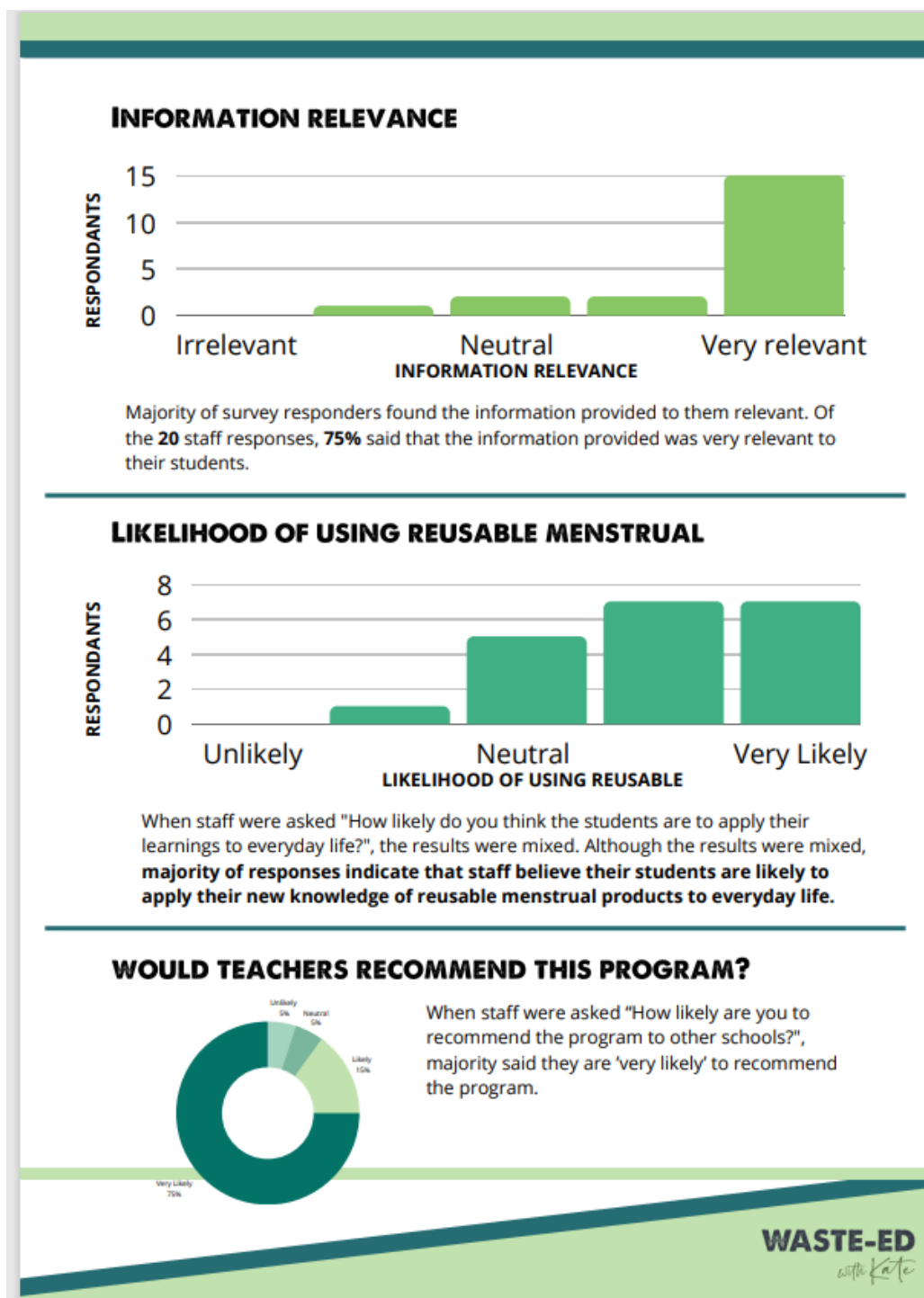
The staff feedback was all collected through an online Google Form survey link and the results are as follows:

RATING OF PROGRAM DELIVERY



The program was well received by teacher staff, with all staff rating the presentation 3 out of 5 or higher. More specifically, of the 20 respondents, 60% of survey responders rated this program 5/5.

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STAFF COMMENTS

You were really engaging to the students, they obviously felt able to be really open with you, even in front of peers which was so awesome!
~ Mount Hutt College, Teacher

A fantastic program. Long may it continue. I look forward to our rebuild when each toilet will have it's own washbasin allowing our students to use these products stress free.
~ Ashburton College, Support Staff

The presentation was great. Pitched at a level that suited our yr7-13's. Great use of humour to engage students and the interactive session where they got to look at products available worked well. Our students felt really comfortable asking questions at the end of the talk also. It was definitely worthwhile and I would be keep to have this again in the future.
~ Kaikoura High School, Head of Health

An excellent presentation that was extremely well received. After you left I had many many girls wanting to give the pads and cups a go. Superb and well timed presentation.
~ Craighead Diocesan School, Teacher

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DISCUSSION

The Waste Free Period Programme was very successful in 2022/23 for the Canterbury Joint Waste Committee's combined areas. With over 2,900 students across 26 schools having received the in-person period education presentation, many young people have walked away with new knowledge, inspiration to minimise waste, and products to try.

Kate Fenwick (Waste Expert), Acacia Davis-Pio (Program Coordinator), and Julia Hipkins (Presenter) spoke with many different students and staff members from all walks of life. Many valuable discussions were had, quality questions were asked, and excellent crowd engagement was present during and after each presentation.

Overall, the 2023 CJWC Waste Free Period Program had major success at inspiring students and staff to go reusable when considering methods to manage menstruation.

ADMINISTRATION - COVID-19 REPERCUSSIONS

The CJWC Waste Free Period Program was initially proposed to be completed in 2021. The aims of this program were two-fold; firstly to educate students and introduce them to reusable menstrual products in the wider Canterbury region, and secondly, to follow up with the students who were provided the same education in 2019. Although, these targets were met, there were some barriers to completing this work within the year.

Unfortunately, the repercussions of the COVID-19 pandemic were very predominate when working in school environments during this particular program. Although, the final results show that the uptake for the program was still positive, there was a lot more administration time spent in back and forth emails and in online/phone meetings with staff than initially budgeted for.

Another noticeable repercussion of the pandemic, was that most, if not all schools were still very hesitant to have large assemblies in indoor spaces (e.g. halls, gyms) in 2021 and even 2022. It wasn't until 2023 when schools were more comfortable with having guest speakers talk to the students.

ONLINE PROGRAM ALTERNATIVE

Although, there was hesitation to book in for an in-person session, some schools expressed interest in delivering our online program through the use of our online module PDF. This PDF document contains eight (5-8 min) video modules that can be watched in any order and at time by whoever has the document. **Click the icon below for access to said document:**



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DISCUSSION CONT.

TEACHER STRIKE ACTION

Although, many of school sessions were locked in and completed during 2022, there were still numerous sessions that were needing to be completed in 2023. This year saw its own array of complications with in-person sessions but the leading issue was because of teacher strikes.

Students had a lot of scheduled time off school while teachers were striking. This meant that we had very limited options as to when we could present. To combat this issue we did contract Julia Hipkins, Christchurch local, to help us carry out presentations. Having Julia did mean we could book in the odd presentation while we weren't in town.

RECEPTION

For the most part, students from all schools were very engaged in the presentation. Each school varied slightly, with some more disruptive than others. That being said, although some students seemed unengaged at times, they came back at the end to collect a reusable menstrual product to try and had many questions to ask one-on-one.

The 'Waste-Ed' team spoke to a variety of different age groups during this trip. Crowd engagement was particularly higher when speaking to older students (Years 11-13), minimal when speaking to younger students (Years 6-8), and most disruptive when speaking to Years 9 & 10 students. Our crowd engagement observations show that:

- Years 11-13 Students,
 - were more engaged and they seemed less 'awkward' speaking on the topic,
 - were more inclined to care about waste minimisation and
 - were interested in the financial savings that come with reusable products.
- Years 9-10 Students,
 - were interested in the products and where to buy them, rather than menstruation and
 - were less open to discussing menstruation, peer-pressure was predominate in this age group.
- Years 7-8 Students,
 - were still engaged, but not as open to asking questions in a group setting and
 - asked more questions about menstruation rather than the products.

These results are as to be expected. We found that the younger the students were, the more hesitant they were, which can be attributed to stigma and the fact that menstruation is still a relatively new experience for them. Also, to mention some students did mention that a PowerPoint presentation might help keep them engaged for longer.

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DISCUSSION CONT.

FUTURE PRESENTATIONS - LEARNINGS

From start to finish, this initiative has taught us many things that we're now able to take into consideration to fine-tune future programs.

We now know that it's imperative to use paper surveys when working with students for a higher volume of quantifiable data, unforeseen circumstances can really impact the momentum of the program, and that a PowerPoint presentation might uplift student engagement even further.

Notably, as the Canterbury Region is so large, long travel time between locations meant that we had limited time slots for visiting certain schools. In some cases, this made it difficult for schools to commit to a presentation, or to fit it into their schedules and added to administration time.

CONCLUSION

With the reception of the presentations being so positive, we are eager to continue this initiative throughout New Zealand high schools in conjunction with District/City Councils.

Although the feedback received was somewhat limiting, being face-fronting with students and staff has highlighted some important aspects of the program. Working in Canterbury schools has indicated that specific year groups have different needs and tailoring the chat to each group is important. Also, the interactions highlighted aspects of the program that can be improved or enhanced.

Lastly, we hope that all Canterbury Joint Waste Committee Councils can see the importance and potential of this initiative and continue to facilitate the program in the future.

REFERENCES

KidsCan (1 November 2018). KidsCan survey exposes extent of period poverty in New Zealand. Retrieved from <https://www.kidscan.org.nz/news/kidscan-survey-exposes-extent-of-period-poverty-in-new-zealand>

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Without Waste Ltd.

Q. New Zealand Business Number (NZBN), if relevant R. 9429050852512

****Contact details in applications retracted – request from CWJC administrator.***

Q. First name
R. Katherine

Q. Last name
R. Gislason

Q. Position
R. Director

Q. First name
R. Katherine

Q. Last name
R. Gislason

Q. Total cost of project (\$)
R. \$27,038.00 - Fleet (provided by Again Again) Event cups, carton of 240, packaged in a closable, rigid plastic carton (7200 units at \$1.20 per unit)= 8,640.00 Freight: Wellington >> urban Christchurch address, 2 pallets, tail lift delivery = 480.00 Consultation support to develop and refine the business plan and local, Christchurch contracts with sanitisation infrastructure and logistics partners (sports clubs) = 2,000.00 1,668 GST (Again Again costs) Without Waste Scoping work \$80/hour for 100 hours: 8,000 (further information provided under key project milestones question) Trailer to transport reusables (10x6 tandem axle box trailer: [Safari 10x6 Tandem Axle Box Trailer Incl 900mm Cage | Safari Trailers](#) - \$6,250.00 Labour from wash staff; to be covered by charging event

Q. Amount requested from committee (\$)
R. \$27,038.00

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.
R. None at this stage

Page 2 of 3 (2/3)

Q. Start date.
R. 01/08/2024

Q. End date.
R. 01/05/2024

Q. Location:
R. A specific region

Q. What region is your project area?
R. Christchurch

Q. Provide a high-level overview of the project and the key outcomes.

R. There is considerable interest in making events more sustainable in Canterbury. There is clear evidence nationally and internationally that reusable service ware (as opposed to single-use or compostable), taking into account washing and energy requirements, when used over a period of time, is the most sustainable option. Reuse systems, particularly those utilising pre-existing infrastructure, operated higher up the waste minimisation hierarchy, than compostable single use packaging. In addition - most events in Canterbury just use general disposable or non - approved compostable packaging.

There are a range of challenges that come with using reusable service ware. This project is being undertaken with the guidance of organizations in NZ who have improved their systems to overcome these challenges, allowing for the successful use of reusables at events in other regions.

High-Level Overview and Key Outcomes of the Project:

Project Overview: This project aims to scope out a sustainable system for using reusable cups and eventually all reusable packaging at events, aligning with zero waste principles. The initiative focuses on reducing the environmental impact of single-use products by trialing a circular system for distributing, collecting, washing, and reusing. This project will be carried out in Christchurch through a feasibility study to begin with which will provide options and pathways to be understood before reusables at events are trialed at certain events. Trials will be done at various events, adding to the feasibility study and giving vital feedback to improving the overall idea by testing and getting information around a functional return system for more reusables than just cups.

Key Outcomes-

Waste Reduction:

Significantly decrease the volume of single-use cups ending up in landfills.

Promote a culture of reuse and waste minimisation among event-goers.

Showcase the use of reusable systems as being a viable model for serving food and beverage at events.

Environmental Impact:

Lower the carbon footprint associated with the production and disposal of single-use packaging.

Conserve resources by extending the lifecycle of reusables.

Economic Benefits:

Reduce long-term costs for event organisers by eliminating the need for continuous purchase of single-use packaging.

Create job opportunities and community collaboration through providing options for the collection, cleaning, and management of reusable packaging.

Significantly reduce the waste disposal cost to the event organisers

Operational Efficiency:

Establish an efficient system for distributing, collecting, and sanitising, ensuring smooth operations for event reusables.

Trial a tracking system to monitor the fleet of reusables.

Utilise pre existing data from pre existing projects in NZ, to predict and reduce "leakage" ie loss of serviceware (i.e. Dishrupt, etc.)

Stakeholder Engagement:

Engage and educate event attendees on the benefits of reusable cups and proper usage through a return system.

Collaborate with sponsors, partners, and local authorities to support and promote the initiative.

Health and Safety:

Ensure all reusables meet health and safety standards through rigorous cleaning and sanitisation protocols.
Receive technical advice from each participating councils trade waste and food licensing staff.
Provide an alternative to single-use products, while also enhancing the attendee experience.

Sustainability Awareness:

Increase awareness and adoption of sustainable practices among event participants.
Foster a community committed to environmental stewardship and responsible consumption.

By achieving these outcomes, this project will demonstrate options for viable models for reusables at events, contributing to broader environmental goals and setting a precedent for future initiatives.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Event tonnages differ event to event, depending on whether they have compostable packaging or not.

Eg; at an event with 5000 people; based on other events, would anticipate at least 300kg waste at an plus 150kgs of organics (food and packaging). While reusables won't affect the recycling stream so much, if drinks are still being served in cans and plastic bottles), removing significant amounts of packaging, reduces the need to use the bins, and in turn reduces confusion, bin mis-use and contamination, which affects the quality of any recycling that is present.

Further information can be provided, as this highly subjective to the amount and type of food being served (ie how soiled packaging is), the level of bin supervision (usually there is none), whether there is already bin sorting at the back end (however there are high levels of contamination that get into the recycling), and what types of food and beverage are being served, which is affected by the time and theme of the event.

Q. Detail any other environmental and/or community benefits associated with this project.

R. -Diversion of packaging that may contain PFAS, from soil (via composting systems)

- Moving into action higher up the waste hierarchy
- Financial benefits to community centers and businesses with underutilised commercial washing facilities
- Further prevention of contamination at events with compostable packaging, where attendees place these into the recycling bins, contaminating the recycling.
- Showcasing circular systems and demonstrating the feasibility of this kind of activity on a larger scale for all types of packaging (not just cups).

Q. Outline the key project stages or milestones.

R. 1. Feasibility Study:

Objective: Assess the viability of implementing a reusable system at events.

Activities:

Collect research on existing reusable service ware systems.
Identify potential challenges and solutions.

Develop options and pathways for implementation using local washing options.

Outcome: Detailed report providing insights and recommendations for managing a reusable fleet from perspective of event organisers and operations team.

2. Stakeholder Engagement and Collaboration:

Objective: Engage key stakeholders to gain support and collaboration.

Activities:

Meet with event organizers, local authorities, sponsors, and partners.
Secure commitments and partnerships.

Outcome: Strong network of stakeholders committed to the project.
Potential for sponsorship in future, when system is demonstrable as effective.

3. System Design and Planning:

Objective: Develop a comprehensive plan for the reusable serve ware system.

Activities:

Design the distribution, collection, and washing processes and give options.
Plan logistics for return stations and washing facilities (create directory).
Present a report on the tracking system for monitoring the lifecycle of reusables.
Outcome: Detailed implementation plan options and system design.

4. Pilot Trials:

Objective: Test the reusable cup system at select events.

Activities:

Implement the system at various trial events.
Monitor and evaluate the effectiveness of distribution, collection, and washing processes.
Gather feedback from event attendees and stakeholders.
Outcome: Refined system based on trial results and feedback.

5. Full-Scale Implementation:

Objective: Roll out the reusable cup system at multiple events.

Activities:

Implement the refined system across a wider range of events.
Ensure operational efficiency and stakeholder coordination.
Continuously monitor and adjust processes as needed.
Outcome: Establish options for a functioning reusable cup system at events, including reverse logistics (using a trailer to transport the items back to wash stations, and then to store with Without Waste.)

6. Monitoring and Evaluation:

Objective: Assess the performance and impact of the reusable cup system.

Activities:

Track key performance indicators (KPIs) such as waste reduction, environmental impact, and economic benefits.

Conduct audits and evaluations.

Compile and present findings to stakeholders.

Outcome: Comprehensive evaluation report demonstrating the system's success and areas for improvement.

Promote the achievements and challenges found, to stakeholders and all councils interested, with a particular focus on Canterbury councils, to support them to get systems underway.

Q. Outline the governance structure for the project.

R. 1. Project Steering Committee (Without Waste with support from Again Again):

Role: Provide overall direction and make high-level decisions.

Members: Senior representatives from Without Waste, event organisers and local government (staff from the CWJC staff group, and direct support from staff from the CCC resource recovery team, the CCC events partnerships team, the regional council (Ecan) senior waste advisor.

Support and technical advice also being received from; Wellington FillGood project manager, Wash Trailers Aotearoa, Reuse Aotearoa, Again Again.

Responsibilities: Set objectives, approve plans and budgets, monitor progress.

2. Project Manager (Kate - Without Waste):

Role: Oversee daily operations and coordinate activities.

Responsibilities: Develop plans, manage resources, liaise with stakeholders, address issues.

3. Operations Team (Without Waste):

Role: Manage logistical aspects.

Responsibilities: Set up return stations, coordinate collection/distribution, ensure compliance, train staff, wash reusable fleet.

4. Environmental Compliance (Without Waste):

Role: Ensure environmental compliance.

Responsibilities: Monitor impact, implement eco-friendly practices, ensure recycling processes. Receive advise and any compliance measures required, from trade waste and food licensing, regarding hygiene and sanitation requirements.

5. Stakeholder Engagement (Without Waste):

Role: Manage communications and engagement.

Responsibilities: Develop communication plan, engage attendees, coordinate with sponsors, gather feedback. Utilise community champions to promote the system.

6. Finance and Administration (Without Waste):

Role: Manage financial and administrative aspects.

Responsibilities: Monitor budget, handle procurement, maintain records, process payments.

7. Monitoring and Evaluation (Without Waste):

Role: Assess project performance.

Responsibilities: Track KPIs, conduct evaluations, compile reports, recommend improvements.

Q. What are the measures of success?

R. Event managers trialling the system and determining it does not add significant extra work that they cannot manage

The public trialling the system, and returning the items in the correct place

Wash team able to wash the items and determine time required and staffing

Specific number of items quantified as being diverted

Directory of washing sites across Christchurch with capacity, venue details, contact information, and other key information for wash team to understand

Options provided for supporting new systems implemented from the Christchurch City Council Waste Management and Minimisation Bylaw 2023 to give event organisers the ability to accommodate offering reusables to events who may want it.

Promote to potential sponsors.

Q. Who are the key stakeholders?

R. Without Waste

ECan

CCC – Events and Resource Recovery Team

The Canterbury Waste Joint Committee

Event organisers

Stallholders

Community Halls/business with washing facilities

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. Without Waste has experience with running events with reusable mugs in collaboration with Selwyn District Council

Without Waste has experience with waste minimisation initiatives at events and implementing them through large and small scale events including waste sorting, education, and waste minimisation through material elimination and diversion schemes.

There is support from both the RR Teams and the Events Teams

Reuse Aotearoa – in particular Hannah Blumbhart has been supporting with information

Again Again – providing insight and resources

Tomra – providing insight

Q. What information will be tracked and evaluated at completion of the project?

R. Directory on wash areas in Christchurch that can be used for washing reusable fleet with detailed venue information.

System options for how reusables are rented out/acquired by event organisers.

Trials at events:

Number of service ware items used (as provided by vendors – ie sales information) at each event

Waste from the previous year can be compared.

A percentage comparison decrease then made if this events trialed were delivered with single packaging.

The amount (\$) saved on packaging through events trialed.

Amount of waste avoided from landfill (by weight) by eliminating single use packaging.

A comparison of the energy and water use of the rewashing of items, including the transport and production, in comparison to an estimate of the energy and water and waste disposal transport of throwaway packaging

A survey on stallholder and event organisers and other stakeholder satisfaction/feedback in comparison with single use items. CCC could help facilitate feedback surveys from the public as well.

Q. What are the key project risks and how will they be reduced or mitigated?

R. The technical advice being received from the wider rewash trailers and rewash systems network, allows for planning of key project risks encountered by these groups, to be reduced or mitigated.

Accidents & Breakage – SOP documents created for reusables support team

Non engagement – asking for feedback after each event from event organisers, stallholders, and sending out information pre-event with follow-up on-site support available.

Loss of product - Working with nada from again again with implementing new events system in Christchurch

Demand exceeding the supply – ensuring that food vendors have back up disposable/compostable supply

Electrical, health and food safety, kitchen management related issues – discussions with kitchens to ensure procedures are in place for health and food safety

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. Food licensing

Insurance

Keeping records of any health and safety near misses or accidents

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. Yes

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Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. Design Out Waste: Reduce waste and pollution from the start.

Keep Products in Use: Extend product life through reuse and eventually recycling at end of life.

Regenerate Systems: Enhance the environment by reusing and eliminating single use and not adding to landfill.

Lifecycle of Reusable Cups:

Design and Manufacturing – Produced in China – as QR code technology is not possible in Australia or New Zealand.

Use durable, recyclable materials (#5 Polypropylene is food grade for sterilisation)

Design for longevity and minimal environmental impact as it is recyclable end of life.

Q. How does the project foster innovation?

R. There are currently no rewash systems for events being used by any council event teams in canterbury, other than a couple of smaller scale one off type events.

We are not aware of any systems in place through council or other entities being used at any other events other than individual stallholders who may have private set ups as part of their business.

This addresses PFAS concerns by moving away the use of any packaging, and currently explores a way to manage serving food and drink in a system that initiates the elimination of disposal of service ware.

This equipment allows for a trial and better understanding of available options of running the reusables system for events before implementing anything for event organisers.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

Q. How will the project contribute towards one or more of the above?

R. Eliminating waste generated at events (disposable single-use packaging) and encouraging reuse of materials through a return system for event cups.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. The extraction of resources such as fossil fuels to create single use packaging, which is then transported to site, and disposed of after, is a linear model= extract, transport, briefly use – dispose. This is costly to stallholders purchasing and transporting packaging, and event organisers, disposing of it. This project moves

up the waste hierarchy to engage in a more circular systems for the items used at events. By normalising this, we are also promoting reuse to attendees.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R. - Remove or reduce a waste stream that may enter a waterbody?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. Not possible since this has not been tested across the country anywhere else.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. We have the support of the staff members of the CWJC, the CCC events team, Envirohub and interest from some ECan staff.

Q. Provide any other supporting information, such as links to websites and social media.

R. withoutwaste.co.nz

[Without Waste NZ](#) | [Christchurch](#) | [Facebook](#)

Item 7



Date _____

Again Again Limited

C/- Bad Company

Workspace

155 Maunganui Road

Tauranga 3116

accounts@againagain.co

126-509-049

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Without Waste- Letter of Support 2024.pdf (98 Kb.):



Canterbury Waste Minimisation Grant – Ecotech Services

Q. Legal entity name

Ecotech Services Limited

Q. Trading name, if different

Ecotech Services

Q. New Zealand Business Number (NZBN), if relevant R. test

9429041797501

Q. Registered address

139A Wordsworth St., Sydenham, Christchurch

Q. Postal address, if different

-

Q. First name

Alan

Q. Last name

Liefting

Q. Position

Managing Director

Q. Total cost of project (\$)

\$2400

Q. Amount requested from committee (\$)

\$1200

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

No cofunding is being sought.

Q. Start date.

When funding is approved.

Q. End date.

Two months after the funding is approved

Q. Location:

Not applicable.

Q. Provide a high-level overview of the project and the key outcomes.

The funding is for what will primarily be a desktop exercise to examine the feasibility of processing lithium chemistry based batteries in New Zealand into what is referred to in the recycling trade as black mass. This will allow for cheaper and safer international shipping of battery materials.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

An estimation of the amount of waste diverted from landfills is difficult to quantify. The aim of the project is to establish feasibility and if it is feasible it is assumed that there will be a reduction in the price of lithium battery recycling. This will then lead to an increase in the volume of recycling.

Q. Detail any other environmental and/or community benefits associated with this project.

If processing lithium batteries into black mass is feasible lithium battery recycling will be cheaper. Our feedback suggests that some recycling costs have low price elasticity. If this is the case for lithium batteries then there is likely to be an increase in lithium battery recycling

There are no direct community benefits from this project.

Q. Outline the key project stages or milestones.

There is only one milestone – the result of the exercise

Q. Outline the governance structure for the project.

The governance will be part of the well established management and staff of Ecotech Services.

Q. What are the measures of success?

A well informed conclusion on the viability of processing lithium batteries into black mass in New Zealand.

Q. Who are the key stakeholders?

Ecotech Services

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

The project is a relatively simple exercise merely requiring investigation into the feasibility of a part of the recycling process of battery recycling.

Q. What information will be tracked and evaluated at completion of the project?

The outcome of the project will be establishing the commercial feasibility of whether lithium batteries can be processed in black mass that can then be safely exported for further processing.

Q. What are the key project risks and how will they be reduced or mitigated?

As a desktop exercise the risks are extremely low and are well known

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

Since it is primarily a desktop exercise being done in an established office all of the requirement of the Health and Safety at Work Act 2015 are already addressed as part of our usual business activity.

Q. Will the project require any resource consent from the regional council or territorial authority?

No

Q. Is your activity an existing permitted activity?

Yes

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

Lithium batteries are commonly used. (Some are disposed of into landfill at risk to the waste collection process.) Local processing of lithium batteries into a commodity product for export and reuse is a small part of a circular economy.

Q. How does the project foster innovation?

The project does not foster innovation as such but the outcome of the project will be able to determine if there is value added processing of lithium batteries in New Zealand.

Q. Will the project contribute towards one or more of the following?

Reduction: Lessening waste generation.

Reuse: Further use of products in their existing form for their original or similar purpose.

Recycling: Reprocessing waste materials to produce new products.

Recovery: Extraction of materials or energy from waste for further use or processing, including but not limited to making materials into compost.

Treatment: Processing waste to change its volume or character so it can be disposed of with no, or reduced adverse environmental impact.

Disposal: Final disposal of waste on land set apart for the purpose.

Yes, if idea proves to be viable.

- Reuse of materials
- Recycling of materials for reuse.
- Recovery of reusable materials

Q. How will the project contribute towards one or more of the above?

If it is viable there will be an increase in battery recycling.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

Local processing of lithium batteries is a commercial benefit and partial processing reduces the costs and resources relating to international shipping.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

Yes

Q. How does the project reduce any hazardous substance or production of hazardous waste?

Local processing of lithium batteries may reduce the cost of lithium battery recycling in New Zealand and lead to a higher recycling rate.

Q. Does the project:

Improve health and safety for waste collectors, personnel working at transfer stations or sorting facilities?

Reduce illegal dumping or stockpiling of wastes?

Remove or reduce a waste stream that may enter a waterbody?

Not applicable for this project.

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

The cost-effectiveness is difficult to quantify but if the proposal is feasible it will result in a long term reduction of lithium batteries being sent to landfill.

Q. Describe your ability to deliver the project and provide any relevant track record.

Ecotech Services has been at the forefront of battery recycling in Christchurch. We have a track record spanning over 15 years in offering battery recycling.

Q. Provide any other supporting information, such as links to websites and social media.

1. Battery recycling began on a small scale in about 2013
2. Ecotech Services assisted Lincoln Envirotown in establishing the first supermarket based battery recycling service. - <https://www.stuff.co.nz/business/93665760/household-battery-recycling-trial-starts-up-at-lincoln>
3. We have either processed for recycling or repurposed a large tonnage of batteries over the past 15 years. This information is in our accounting records and the exact amount is commercially sensitive.

Q. Legal entity name
R. Kapa Limited

Q. Trading name, if different
R. Chunky

****Contact details in applications retracted – request from CWJC administrator.***

Q. New Zealand Business Number (NZBN), if relevant R. 9429034309582

Q. First name
R. Mark

Q. Last name
R. Moran

Q. Position
R. Director

Q. Email
R. info@chunky.nz

Q. First name
R. Sofia

Q. Last name
R. Cinque

Q. Total cost of project (\$)
R. 47923

Q. Amount requested from committee (\$)
R. 21223

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.
R.

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Q. Start date.
R. 01/08/2024

Q. End date.
R. 31/07/2025

Q. Location:
R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.
R. The Chunky Loan Cup System aims to combat the environmental impact of the use of single-use cups by providing an accessible and sustainable alternative.

The principal objectives of the Chunky Loan Cup System include:
1. Waste Reduction: By promoting the use of reusable cups, the initiative aims to make a substantial contribution to reducing the volume of single-use cup waste.

2. Accessibility: The initiative seeks to enhance convenience and affordability for both vendors and individuals by making efforts to ensure that reusable cups are available at key locations in each region and on a cost neutral basis to both vendors and consumers.

3. Economic Benefits: Through the adoption of reusable cups, the initiative aims to benefit local businesses by lowering their costs associated with disposable cups. The system is designed to be cashflow positive for vendors.

How it works:

- Vendors purchase loan cups from Chunky at \$10 each incl GST
- Customer purchases a loan cup for \$10 from any participating location
- Customer refills or exchanges for a clean cup at participating location (they can still refill a clean cup at any location)
- Customer returns the cup at any point back to a participating location for a refund (the customer may decide to keep the cup instead)
- A small minority of participating locations may receive more cups back than they give out. Chunky will simply take back excess cups and refund the location.

*The system is free of subscription or transaction charges to vendors. They pay \$10 for cups but get \$10 from customers. In future, Chunky will either need to charge a monthly membership fee or obtain external funding for the system to be self sustainable. Chunky has committed to no monthly charges until at least 2026 although we hope it will be forever.

Our innovation would have a significant impact on waste reduction in the region by removing a large amount of single-use cup waste. We have full and free end of use recycling available for the Chunky cups and lids.

This project will support 100 cafes in the Canterbury Region to sign up and get a free starter pack of 10 Loan Cups + stand + marketing material. In exchange, they will commit to record the amount of loan cups used, swapped and returned, and if they run out they will also commit to reorder.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Every serving in a Chunky Loan Cup will potentially reduce the amount of commercial waste created by one single use cup and lid. We measure servings in Chunky Loan Cups by asking vendors to have a specific till code/button for servings in Chunky Loan Cups or even better have a button or code that gives the customer a discount for using the cup.

An important point to note is that we step in to help when a customer forgets their reusable cup, not to mention the new customers who are getting acquainted with our reusable cups.

Using the KeepCup impact calculator we estimate that a person using a Loan Cup 7 times a week for a year will reduce 1.16kg of plastic, 12.90kg of carbon dioxide (CO₂e) and 331.73mj of energy.

[Impact Calculator | KeepCup](#)

We have full end of life recycling systems for both the stainless cups (using the Chunky Recycling Initiative - [Chunky Recycling Initiative](#)) and the silicone lids (using Silicone Send Back - [Silicone Send Back | munchcupboard \(nilproducts.com\)](#))

Q. Detail any other environmental and/or community benefits associated with this project.

R. Our primary focus revolves around changing behaviours. Our system not only introduces a pathway for customers to adopt reusable cups but also guides vendors closer to eliminating single-use cups. The undeniable reality is that single-use cups will eventually be prohibited in New Zealand. Our aim is to expedite this process. We believe the government will enforce such a ban once they witness some level of consumer acceptance. With the Chunky Loan Cup System, we genuinely believe that we can drive such substantial behavioural change that the ban on single-use cups will happen sooner than expected. Our experience in Queenstown reinforces this, and we firmly believe this transformation can be achieved nationwide.

Additionally, we have witnessed a higher sense of community and collaboration between participating cafes in different towns and regions, as they get to communicate with each other and support a mission that's bigger than their own individual goals. Some towns have started their own SUCfree (single use cup free) campaigns.

Q. Outline the key project stages or milestones.

R. - Create marketing material and research on cafes on the region
- Introduce the system to vendors and sign ups
- Provide initial support to vendors including staff training
- Measurement of uptake and usage

Q. Outline the governance structure for the project.

R. We are a small but experienced team headed by Director, Mark Moran who has a background in Chartered Accountancy. Sofia Cinque is the project manager and is a qualified environment scientist, she's been running the Chunky Loan Cup System since 2021. Tanya Stone is in charge of our customer service and distribution.

Q. What are the measures of success?

R. Initial success measurement will be around the number of cafe's that we can get onboard. Nearing the end of the project period we will visit every cafe to see that the cups remain available and visible (this is quite an important initial measurement as the success of the system does depend on the cafe and the staff supporting it). The longer term assessment will be made with our measurement of servings in Chunky Loan Cups as recorded by our vendors (Some vendors will be better at this than others).

Q. Who are the key stakeholders?

R. The key stakeholders are the cafe operators, the users of the loan cup system (the customers), Councils and ratepayers within the areas covered by the Canterbury Waste Joint Committee, and Chunky.

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. Mark Moran has a background in Chartered Accountancy but has been running his own businesses for the last 20 years, including Chunky since 2017. Mark has significant experience in managing budgets and risk. Sofia Cinque is the project manager and is a qualified environment scientist. She has been managing the Loan Cup System since we started it in 2021. Sofia has been involved with several SUCfree campaigns around Aotearoa and works closely with Councils and organizations in similar projects in the country.

Q. What information will be tracked and evaluated at completion of the project?

R. Several pieces of information would be tracked and evaluated to assess the effectiveness and impact of the initiative. Key metrics include:

- Reduction in Single-Use Cup Usage: calculated from information provided by participating cafe's.
- Number of Loan Cups Sold/Swapped: information provided by the cafes every month so we can track how frequently the Loan Cups are used by customers.
- Customer Feedback: we will collect feedback from customers regarding their perceptions of the initiative, including satisfaction with reusable options, ease of access, and any suggestions for improvement.
- Cost Savings: calculate any cost savings realized as a result of reduced reliance on single-use cups, including savings on purchasing disposable cups and potential waste disposal fees.

Q. What are the key project risks and how will they be reduced or mitigated?

R. The primary concern regarding the system is the potential lack of adoption by cafes. To address this in our funding proposal, we've allocated resources for a staff member to be present in Canterbury for three months. Their role will be crucial in effectively conveying the system's advantages to cafe operators, thus minimizing this risk.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. The Health and Safety at Work Act 2015 requirements will be implemented and managed throughout this project to ensure the safety of all involved.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. Yes

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Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. By nature the Loan Cup System embodies circular economy principles as the cups are designed to be used over and over again. Our Chunky Loan Cups are designed to be durable, long-lasting, and suitable for multiple uses. The use of stainless steel and silicone maximises lifespan and minimises wear and tear. We also already have a system in place to collect and recycle cups and lids at the end of their lifespan.

Q. How does the project foster innovation?

R. The project fosters innovation by challenging existing norms, fostering collaboration, leveraging behavioural insights, and promoting a culture of continuous improvement to drive positive change towards a more sustainable future.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.

Q. How will the project contribute towards one or more of the above?

R. The project contributes to waste reduction and reuse in several key ways:

Reduction of Single-Use Cups: By providing customers with the option to use loan cups instead of single-use disposable cups, the project directly reduces the amount of waste generated from single-use coffee cup consumption.

Closed-Loop System: The deposit-refund mechanism creates a closed-loop system where cups are returned to cafes, cleaned, and reused multiple times. This reduces the need for continual production and disposal of single-use cups, minimising waste generation throughout the lifecycle of the cups.

Behavioural Change: The project encourages a shift in consumer behavior towards reusability and sustainability. By promoting the use of loan cups and incentivising their return, the project fosters a culture of waste reduction and responsible consumption among customers.

Awareness and Education: The project raises awareness about the environmental impact of single-use cups and educates customers about the benefits of reusable alternatives. This increased awareness can lead to long-term behavior change and further contribute to waste reduction efforts beyond the scope of the project.

Partnership with Cafes: Collaborating with cafes to implement the loan cup system allows for widespread adoption and accessibility. As cafes play a central role in facilitating cup distribution, collection, and cleaning, their participation ensures the effective operation of the system and maximizes its impact on waste reduction.

Overall, the project significantly contributes to waste reduction and promotes a more sustainable approach to consumption and waste management.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. By promoting the use of reusable cups, the project reduces the demand for single-use materials such as paper, plastic, and cardboard. This minimises resource consumption and waste generation, contributing to overall resource efficiency.

The project can lead to significant cost savings over time. By reducing reliance on disposable cups, cafes can save money on purchasing single-use materials and waste disposal fees.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

- R. - Improve health and safety for waste collectors, personnel working at transfer stations or sorting facilities?
- Reduce illegal dumping or stockpiling of wastes?
- Remove or reduce a waste stream that may enter a waterbody?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. We firmly believe that the project is highly cost-effective, not only due to the significant reduction in single-use cups ending up in landfills but also because of the long-term behavioral change it promotes.

There are so many variables with the weight of waste diverted that it's difficult to estimate until we see how much the cafe's get behind the system. It varies wildly between our existing cafe's. We would be able to better estimate this at the completion of the initial period.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. We have been running the Loan Cup System since 2021 so have a proven ability to deliver. Our strongest regional coverage is in the two regions where we have received direct or indirect funding - Queenstown Lakes (60+ locations) and Great Barrier Island (9 locations - every location on the island except one). Funding was received for Queenstown-Lakes in 2021 and rather than seeing a drop off in locations we have seen an increase since the funding ended. A map of locations can be seen here: [The Chunky Loan Cup System](#) Similar campaigns and initiatives around New Zealand are using the Chunky Loan Cup System, like Mercury Bay, Whanganui and Whakatane.

Q. Provide any other supporting information, such as links to websites and social media.

R. Here's the link of our website, where you can find the details of our Loan Cup System and our existing members around Aotearoa and the Canterbury Region: [The Chunky Loan Cup System](#)

Our Instagram is @bechunky where you can find testimonials from participating cafes.

Chunky Loan Cup Information June 2023.pdf (2150 Kb.): [The Chunky Loan Cup System](#)

Loan Cups

chu
nky

At Chunky, our mission is to make a difference. And we reckon you probably want to see things done differently too. So, let's get together and stop the single-use cup madness!

JOIN THE CHUNKY LOAN CUP SYSTEM EASY MEMBERSHIP AND FREE GOOD VIBES

Hey, we don't need to tell you how bad, bad, bad single-use cups are (or how much you spend each month on purchasing them). And you probably know how often customers forget to bring their reusable cup. And, yes, there are already a few options out there for loan cup systems.

BUT YOU AIN'T NEVER SEEN LOAN CUPS DONE LIKE THIS BEFORE



- The Chunky Loan Cup System is about planet before profits
- This is a not-for-profit initiative
- There is no greenwash and no catch
- This initiative has been supported by QLDC's Waste Minimisation Community Fund

Sure there's no catch? The Chunky Loan Cup System is about reducing waste, but most importantly, it's about educating and leading behavioural change. All we want is less consuming, more reusing (hmmm, that's kind of catchy).

You may know the Chunky brand from our reusable stainless steel drink bottles and cups featuring the work of emerging artists. So, in a roundabout kind of a way, if you jump on board with the Chunky Loan Cup System, you are also supporting up and coming artists. (If you're interested in stocking our artists series of bottles or cups, keep reading).

CHUNKY LOAN CUP SYSTEM

The Details

- A customer comes into your café without a reusable cup
- They do the right thing and refuse the single-use cup and instead pay you a \$10 refundable deposit for the use of a Chunky Loan Cup
- The customer can hold onto that cup (10 bucks for a reusable cup, bargain) or return it next time and get the \$10 deposit back
- You purchase the cups at \$10 each but payable in 3 months (so the sale of cups should be cashflow positive for you)
- We provide you with a counter stand, a sticker for your door and ongoing support. Chunky Loan Cups come with Free Good Vibes
- You're participating in a not-for-profit loan cup system
- Our rewards here are not financial, your support helps us do good stuff like work on better environmental practices AND provide a platform for emerging artists
- We currently have no membership fee in order to keep the system as accessible as possible for everyone. In future we may look to add a small fee if the costs become too high for us to bear. See the box to the right if you want to help!
- Our endgame, and we hope it is yours as well, is to give every person the opportunity to purchase or access a reusable cup easily

This is how behavioural change happens. That's what we're here for (we're also here for good coffee, by the way)

WANT TO HELP?

Our system is not for profit. Well, it actually costs us quite a lot! We do know that the system benefits our participants financially through savings in not using single use cups (not to mention all of the non financial benefits!)

So if you want to contribute, we won't say no :)

Please contact us to see what option might suit you, from sponsorship, to one off donations or regular contributions.

The Cup

The Chunky Loan Cup is the real deal. A quality coffee deserves a quality vessel to drink it from.

WHAT'S GOOD ABOUT THE CUP?

- Stainless steel, double-walled cup keeps drinks—not fingers— piping hot.
- No need for cardboard sleeves.
- Sumptuous 3mm drinking edge for a better coffee-drinking experience (and to keep the barista happy).
- Pretty much Hulk-proof. These are tough cups.
- Dishwasher safe.
- Open drinking hole in the **silicone** lid, so there are no odour-causing, flavour-impacting particles getting stuck in nooks and crannies. Gross.
- Full end-of-life recycling by Chunky. We mean this, no BS. You can read more about our bottle recycling initiative on the Chunky website.



**STACKABLE SHAPE,
WITH A SILICONE LID -
EASY PEASY**



The Chunky Artist Series cup

ARTIST SERIES CUP DETAILS

- 10oz (296ml) or 14oz (414ml)
- 18/8 Double walled stainless steel
- Keeps your drink warm for a prolonged period, but the outside is cool to touch
- German engineered (Greblon) ceramic coated inner for the ultimate taste and cleaning experience
- Sumptuous 3mm drinking edge will have you thinking you are still in a café
- Textured and tactile external printed design
- Acrylic lid is free of BPA
- Handwash cup to protect the design.
- Lid is dishwasher safe
- Our artists are paid well and upfront for their work
- Plastic-free packaging
- Free end of life recycling

You'll notice our Chunky Loan Cups are an understated, simple stainless steel design. But we also have a stunning range of artist-adorned keep cups available for sale. When you join the Chunky Loan Cup System, you also have the option to become a Chunky retailer. A step above your average reusable cup, these beautifully crafted, double-walled, ceramic coated, food-grade 304 stainless steel cups are one small stand against the mundane. They also come with some of the highest margins on offer for reusable cup sales. We commission emerging artists to create designs for us, which we release as our Artists Series. We pay artists well and upfront; they don't rely on sales commissions.

We really hope you'll also have our Artist Series in your café when you join the Chunky Loan Cup movement.



Get Started

OPTION 1 : LOAN CUPS + ARTIST SERIES CUPS

Order whatever you like or choose one of the packages below that includes loan cups and a selection of the Artists Series cups.

PACKAGE A	PACKAGE B	PACKAGE C	PACKAGE D
24 x loan cups	24 loan cups	24 loan cups	48 loan cups
1 x ea Artist Series 10oz cup (6 cups total)	2 x ea Artist Series 10oz cup (12 cups total)	2 x ea Artist Series 10oz cup (12 cups total)	4 x ea Artist Series 10oz cup (24 cups total)
1 x ea Artist Series 14 oz cup (6 cups total)	1 x ea Artist Series 14 oz cup (6 cups total)	2 x ea Artist Series 14 oz cup (12 cups total)	2 x ea Artist Series 14 oz cup (12 cups total)
Total cost: \$462.36+gst	Total cost: \$581.76+gst	Total cost: \$716.16+gst	Total cost: \$1163.52+gst

OPTION 2: LOAN CUPS ONLY

Please order in multiples of 6, but we do recommend 24.

OPTION 3: ARTIST SERIES CUPS ONLY (FOR INDIVIDUAL RE-SALE)

Minimum order 6 cups, available in multiples of 6 per size (can be mixed designs)

Email order@chunky.nz for orders or sofi@chunky.nz for any other enquiries.

Check our current Loan Cup members at chunky.nz/pages/loan-cups. If you know any other cafes in the area that could be interested, please let us know! The more parties involved the better the system works! Let's normalise it! We would love to work side by side with you on our mission to reduce throwaway cups, be better humans, and always drink good coffee.

We are also offering our Loan Cups for events. Check our website for more information.



Breathe in Breathe Out by Jen Sievers



Bloom by Laura Shallcrass



Daisy by Jennifer Bouron



Blue Wave by Laura Shallcrass



Birbs of NZ by Malangeo



Strange World of NZ by Carmel Van Der Hoeven

Canterbury Fund Budget.xlsx (11 Kb.):

Canterbury Waste Minimisation Grant			
Budget workings			
All figures excluding GST			
First one hundred vendors to sign up get \$150 value starter pack free			
100 packs at \$150			15,000
Sofia Cinque wages costs for 3 Months (spread over 12 mth period)			
1 September 2024 to 31 August 2025			19,500
In kind contributions from Chunky			
Warehouse and office costs per annum	\$27,000		
Admin staff wages per annum	\$45,000		
Total	\$72,000		
10% of these overheads			7,200
Travel Costs			
Mileage to Canterbury	\$500		
Mileage back from Canterbury	\$500		
Accommodation in Canterbury (30 nights)	\$3,750		
Mileage in Canterbury (1 month - 50km a day average)	\$1,473		
Total travel costs			6,223
Total Project cost			47,923
Funding requested			21,223
*Note: Funding could be provided of \$15,000 to cover the 100 packs but because the work would be done remotely the uptake may not be at an acceptable level.			

Q. Legal entity name

R. Circlr Limited

****Contact details in applications retracted – request from CWJC administrator.***

Q. New Zealand Business Number (NZBN), if relevant R. 942905038607

Q. First name

R. Chris

Q. Last name

R. Saunders

Q. Position

R. Co-Founder, CTO

Q. Email

R. chris@circlr.nz

Q. First name

R. Sara

Q. Last name

R. Smeath

Q. Total cost of project (\$)

R. 37,000

Q. Amount requested from committee (\$)

R. 37,000

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.

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Q. Start date.

R. 02/09/2024

Q. End date.

R. 05/05/2025

Q. Location:

R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.

R. We are seeking a grant to support the soft launch of CiRCLR, a cutting-edge digital platform designed to enhance circular economy practices in the Christchurch region. CiRCLR aims to connect businesses, streamline waste management, and promote the reuse and recycling of materials. By digitally enabling circular economies, CiRCLR will significantly benefit Christchurch through improved sustainability, economic growth, and community engagement.

The project aims to promote circular outcomes for Christchurch businesses by creating incentives and encouraging behavioural changes for better waste sorting and decision-making around waste reduction. CiRCLR helps businesses quickly identify where waste can go to avoid landfill while providing traceable lifecycle analysis of circular products and outcome.

Our project will focus on the following activities:

1. Building Christchurch Case Studies: Develop case studies to demonstrate the benefits and feasibility of circular economy practices.
2. Targeted Marketing and Surveys: Engage local businesses through targeted marketing and surveys to gather insights and build support for the platform.
3. Education and Digital Enablement Workshops: Conduct workshops to educate businesses on the benefits of the circular economy and how to leverage digital tools for sustainability.
4. Testing Regional Outcomes: Assess the platform's effectiveness in the Christchurch region and gather data on its impact.
5. Identifying Feedstock Opportunities: Work with businesses to identify feedstock opportunities and map waste issues for future infrastructure investments.

By supporting the soft launch of CiRCLR, this project will lay the groundwork for a sustainable and circular economy in Christchurch, benefiting both businesses and the community.

Key outcomes from the soft launch of CiRCLR in the Christchurch region include:

1. Reduced waste to landfill
2. Case Studies and Insights to promote local businesses
3. Marketing Campaign and awareness to promote circular benefits to businesses.
4. Education for digital enablement
5. Early mapping of Feedstock Opportunities for local infrastructure or proof of lower embodied carbon products from regional inputs.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. 400 tonnes of waste diverted from landfill.

Q. Detail any other environmental and/or community benefits associated with this project.

R. Through effective waste data collection and resource mapping, this project enables the council and businesses to plan infrastructure investments more efficiently. This targeted approach to deploying capital toward waste minimisation projects will be faster and more effective with transparent data.

On a community level, the project fosters local economic growth by creating new business opportunities in the circular economy sector, leading to job creation and the development of industries focused on sustainable practices.

Additionally, the project encourages collaboration among businesses and local councils, fostering a collective effort towards environmental stewardship. By demonstrating the practical and economic benefits of sustainable practices, CiRCLR inspires consumers to support businesses in their community that can provide proof of their sustainable actions.

Q. Outline the key project stages or milestones.

R. (Months 1-2) Localisation

1. Identify and engage key stakeholders, including local businesses, government agencies, and community groups.

(Months 3-4) Awareness

1. Launch targeted marketing campaigns to raise awareness about CiRCLR and its benefits.

2. Provide education or training sessions and support for Christchurch businesses to ensure successful onboarding and usage of the platform.

(Months 5-6) Onboarding

1. Work with case study businesses to accurately quantify and identify waste streams.

2. Provide workshops for businesses interested in adopting circular work flows in supply chains.

(Months 7-8) Customisation

1. Collect feedback from users and make necessary improvements to the platform.

Evaluate platform performance against predefined metrics, including user adoption rates, waste diversion rates, and user satisfaction levels.

2. Share soft launch case studies highlighting collaboration across Christchurch businesses.

3. Identify digital development needs for full launch.

4. Identify collaboration opportunities with local transportation, resource recovery and innovations needing sustainable materials and return schemes.

This timeline allows for a more thorough and phased approach to the soft launch of CiRCLR in Christchurch, ensuring effective stakeholder engagement, platform customisation, localisation, marketing, implementation, and evaluation over an eight-month period.

Q. Outline the governance structure for the project.

R. Sara Smeath - CEO, Project Manager:

Role: Manages project execution and coordinates marketing and community outreach efforts.

Responsibilities:

Develops and maintains the project plan, ensuring milestones and deliverables are met.

Leads marketing initiatives to promote the CiRCLR platform and its benefits.

Engages with the community through outreach programs to build support and awareness for circular economy practices.

Anita Tipene - Communications and Marketing Specialist:

Role: Manages social media, content creation, copywriting, and overall communications.

Responsibilities:

Develops and implements social media strategies to enhance the project's online presence.

Creates compelling content for various platforms, including marketing copy and communications.

Supports marketing efforts by providing clear and engaging copy for promotional materials.

Chris Saunders - CTO, Product Owner:

Role: Oversees the overall product vision and strategy.

Responsibilities:

Acts as the primary point of contact for stakeholders and ensures alignment with project goals.

Manages customer accounts, ensuring their needs are met and expectations are exceeded.

Provides customer success management, training, and support to ensure a smooth user experience.

Udit Veerwani - Software Developer:

Role: Develops and maintains the CiRCLR digital platform.

Responsibilities:

Designs, codes, tests, and implements new features based on customer feedback and project requirements.

Ensures the platform is user-friendly, reliable, and secure.

Works closely with the product owner and project manager to align development efforts with project goals and timelines.

Q. What are the measures of success?

R. The measures of success for the soft launch of CiRCLR in Christchurch can include:

Waste Diversion Rate:

The percentage of waste diverted from landfills through CiRCLR's platform case studies, demonstrating its effectiveness in promoting reuse and recycling of materials.

Feedback and Satisfaction Levels:

Surveys and feedback from users to gauge their satisfaction with the platform's usability, functionality, and effectiveness in addressing their needs.

Metrics of waste recordings:

The volume of transactions and recordings facilitated through CiRCLR, including waste exchanges, resource sharing, and recycling activities, indicates the platform's level of activity and impact.

Environmental Impact:

Quantifiable metrics such as reduction in carbon emissions, conservation of natural resources, and decrease in waste generation, reflecting the platform's contribution to environmental sustainability.

Engagement:

The number of businesses actively involved in circular economy practices and initiatives facilitated by CiRCLR, demonstrating its ability to drive behavioural change and promote sustainable business practices.

Case Studies:

The development of case studies highlighting the outcomes achieved by businesses through their participation in CiRCLR.

Currently, there is a lack of options to create a circular economy with construction waste in Christchurch. We will consider this project a success if we can help establish a new commercial case for upcycling construction waste materials, or influence decision making at the council level to encourage more businesses to take on these opportunities.

Q. Who are the key stakeholders?

R. Platform Users, primarily construction companies and businesses adjacent to the construction industry.

Role: Actively participate in the CiRCLR platform by tracking, sorting, and reporting their waste. Provide feedback on platform usability and effectiveness. Serve as early adopters and champions of circular economy practices.

Benefits: Reduced waste management costs, enhanced sustainability practices, improved compliance with environmental regulations and standards.

Resource Recovery Service Providers, companies specializing in waste collection, recycling, and upcycling services.

Role: Partner with CiRCLR to receive and process waste materials, transforming them into reusable resources. Offer expertise and services to facilitate efficient recovery and repurposing of construction waste at scale.

Benefits: Increased business opportunities from new waste streams, expanded market reach through collaboration with construction companies, contribution to a sustainable waste management ecosystem.

Local Council, responsible for local environmental policies and regulations.

Role: Support and enforce policies that promote waste reduction and circular economy practices. Use data collected through the CiRCLR platform to inform policy decisions and infrastructure investments.

Benefits: Achievement of waste reduction targets, enhanced environmental sustainability within the region, data-driven decision-making to improve waste management policies.

Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. Last year CiRCLR conducted a small scale feasibility study in Wellington to understand challenges around digital enablement of waste minimisation. We engaged with 65 construction businesses and identified key challenges and opportunities within the construction waste circularity sector. The project successfully highlighted the need for simplified waste management systems and improved stakeholder collaboration. Notably, the Wellington study diverted 47 tonnes of waste from landfill on one job site, demonstrating cost savings and proven sustainability for the business involved.

Sara Smeath, the project manager, has a strong track record in project management, marketing, and community outreach, having led previous projects to success by effectively coordinating plans and engaging the community. Chris Saunders, the product owner, brings valuable expertise in customer success and ensures the platform is reliable and user-friendly.

Q. What information will be tracked and evaluated at completion of the project?

R. At the completion of the project, the following information will be tracked and evaluated to assess the overall effectiveness and impact of CiRCLR's soft launch in Christchurch:

CiRCLR Waste Metrics:

- Number of transactions facilitated through the platform, including waste exchanges, resource sharing, and recycling activities.
- Percentage of waste diverted from landfills through CiRCLR's platform.
- Volume or weight of materials repurposed or recycled through CiRCLR.
- Distance travelled between waste and resource recovery.
- Quantifiable environmental benefits such as reduction in waste sent to landfills, conservation of natural resources, and decrease in greenhouse gas emissions.
- Carbon emissions resulting from waste generation and transportation.
- Types of waste on sites.

CiRCLR user Feedback:

- Feedback from businesses regarding the platform's usability, functionality, and effectiveness.
- Success stories and testimonials from businesses highlighting the benefits and outcomes achieved through CiRCLR participation.
- Level of engagement and collaboration with local businesses, government agencies, and community groups.

- Financial savings realised by businesses through Circlr; reduced waste disposal costs, increased revenue from recycled materials, and improved operational efficiency.
- Identification of key learnings, challenges, and opportunities for improvement to inform future initiatives and iterations of CiRCLR.

Q. What are the key project risks and how will they be reduced or mitigated?

R. Risk of low participation and adoption by businesses, resulting in limited platform usage and impact.

To avoid risk we will look at local engagement to build awareness and interest among businesses. Provide targeted marketing campaigns, incentives, and training sessions to encourage platform adoption. Continuously monitor user feedback and address any usability or functionality issues promptly.

A more in-depth project risk matrix chart can be provided upon request.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. We have a robust health and safety plan for our employees and contractors which we can share in detail upon request.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No.

Q. Is your activity an existing permitted activity?

R. Yes

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Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. CiRCLR embodies circular economy principles by promoting resource efficiency, closed-loop systems, and product life extension. It encourages businesses to optimise resource use, and facilitate material recycling with traceability. Through digitalisation and collaboration, CiRCLR fosters sustainable procurement practices and consumer awareness, ultimately driving a shift towards a regenerative economic model.

Q. How does the project foster innovation?

R. Our project focuses on creating an ecosystem that enables businesses to be more transparent about their sustainable impact and encourages the creation and adoption of circular economies through simple resource mapping and exchange. CiRCLR fosters innovation and investment in the sustainability ecosystem by allowing new technologies and businesses to scale up faster with cheaper access to sustainable raw materials for localised manufacturing.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.

- Reuse: Further use of products in their existing form for their original or similar purpose.
- Recycling: Reprocessing waste materials to produce new products.
- Recovery: Extraction of materials or energy from waste for further use or processing, including but not limited to making materials into compost.

Q. How will the project contribute towards one or more of the above?

R. Reduction:

The CiRCLR project will contribute to waste reduction by providing businesses with the tools to track, measure, and manage their waste more effectively. By promoting better sorting and identification of waste streams, the project helps minimise the overall generation of waste at the source.

Reuse:

CiRCLR encourages businesses to find further uses for products in their existing form. Through the platform, businesses can identify opportunities to repurpose materials for their original or similar purposes, extending the lifecycle of these products and reducing the need for new resources.

Recycling:

The project facilitates recycling by connecting businesses with resource recovery service providers who can reprocess waste materials into new products. By simplifying the identification and quantification of recyclable materials, CiRCLR supports businesses in diverting waste from landfill to recycling facilities.

Recovery:

CiRCLR supports the recovery of materials by enabling the extraction of valuable resources or energy from waste. The platform promotes the transformation of waste into compost or other useful materials, ensuring that waste is utilised in the most efficient manner possible.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. Until now, there has been no simple way to measure, connect, and create critical mass of a “waste” item, and for it to be considered a valuable resource for a local business. Businesses don’t often know what they are wasting, how much they have, or who needs it. Most importantly, they don’t understand the relevance waste has on their ESG reporting and carbon footprint.

Using the granular data of the types, volumes and frequency of waste being generated on site, we will be able to encourage businesses and other enterprises to seek out the resources available. Through our market research, we have identified that there is a demand for construction waste materials such as untreated timber, metal and plasterboard. These materials can be remanufactured into other value-added materials. However, there is little incentive to sort the waste due to economic factors. As the waste levy increases, it will become worthwhile for businesses to seek out these

resources and CiRCLR aims to facilitate the connections and measure the social and environmental impact of those actions.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. No

Q. Does the project:

R. - Improve health and safety for waste collectors, personnel working at transfer stations or sorting facilities?

- Reduce illegal dumping or stockpiling of wastes?

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. The CiRCLR project is designed to be cost-effective by leveraging digital tools to streamline waste management processes, reduce operational inefficiencies, and promote sustainable practices among businesses.

Let's assume that the initial adoption by businesses is profit driven. At the current cost of \$373.30 per tonne for general waste at Ecodrop, diverting 400 tonnes of waste from landfill with Circlr would save businesses \$149,320.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. In the past year, CiRCLR has strategically forged partnerships and collaborations with a diverse global network of innovative businesses, governments, and industry organisations. These initiatives have not only strengthened our market presence but also accelerated the adoption of our sustainable solution.

One noteworthy partnership has been with New Zealand Trade and Enterprise, where we serve as a focus group customer. This collaboration has rapidly propelled our business development efforts throughout the APAC region, particularly within New Zealand's thriving export markets.

Australia's largest bank recently joined forces with CiRCLR to integrate our platform into their sustainable business advisory tool. This strategic partnership grants us access to a staggering 700,000 business customers actively seeking solutions to decarbonise their value chains. It positions us at the forefront of sustainability-driven innovation in the Australian market.

In Singapore, we are collaborating closely with Saint-Gobain, one of Europe's largest construction material manufacturing companies. They have invited CiRCLR to showcase our platform as a solution to reduce embodied carbon in their materials. By streamlining the exchange of resources through their supply chains, we contribute to their sustainability goals and exemplify our commitment to revolutionising the construction industry.

Furthermore, CiRCLR has explored partnerships with the Taiwanese government, aligning with their ambitious zero-waste objectives as part of the Smart Cities initiative. As a testament to the value of this collaboration, we have been granted entrepreneurial visas, paving the way for CiRCLR's expansion into the burgeoning Taiwanese market.

Lastly, our participation in GSUP 2.0 was a pivotal milestone in our journey. It provided invaluable insights into how CiRCLR addresses challenges in the clean energy sector and facilitated introductions to various European governments. We were honoured with an industry award for our groundbreaking clean energy technology solution.

These strategic partnerships and collaborations demonstrate our commitment to driving sustainability, expanding our global footprint, and making a real impact on the industries we serve.

Q. Provide any other supporting information, such as links to websites and social media.

R.

[Circlr - Making circularity simple](#)

[CiRCLR | LinkedIn](#)

Circlr Canterbury Waste Minimisation Fund Work Plan Estimate.xlsx (442 Kb.):

		
Canterbury Waste Minimisation Grant Project Plan		
Activity	Activities planned	Estimated total cost (GST excl.)
Education and Training	Funds for organising training sessions, workshops, and support resources for businesses to ensure they understand how to use the CiRCLR platform effectively. This includes hiring trainers, developing training materials, and providing ongoing support to users.	\$12,000
Marketing and Awareness	Budget towards marketing and promotional activities, including advertising campaigns, digital marketing efforts, and promotional materials to raise awareness about CiRCLR among businesses, government agencies, and community groups in Christchurch.	\$8,000
Platform Development and localisation	Customisation and refinement of the CiRCLR platform to meet the specific needs and requirements of the Christchurch region. This includes software development, user interface improvements, and integration of features tailored to local businesses	\$12,000
Feedback and Data analysis		\$5,000
		\$37,000

Circlr Evidence.pdf (13250 Kb.):



The image is a promotional graphic for Circlr, a platform for connecting supply chains for a waste-free future. The top half features a large pink circle with the 'CiRCLR' logo, set against a background of various construction materials like bricks, concrete, and paint cans. The text 'CONNECTING SUPPLY CHAINS FOR A WASTE-FREE FUTURE' is prominently displayed in green and black. The bottom half, titled 'Endorsements From Industry Experts', contains six testimonials from industry professionals, each in a white speech bubble. The testimonials are from Eimantas Norkunas, Daniel Smith, Dwayne Carroll, Tui Taylor, Bethany Stanford, and another Dwayne Carroll. The testimonials highlight the benefits of Circlr, such as reducing waste, improving traceability, and facilitating collaboration in the construction industry.

CONNECTING SUPPLY CHAINS FOR A WASTE-FREE FUTURE

Endorsements From Industry Experts

EIMANTAS NORKUNAS
Ministry of Environment, Lithuania

One day, we will look back and wonder why we didn't always deal with waste this way.

DANIEL SMITH
GM of Projects
Pacific Process

Pacific Process are looking forward to working with Circlr, to encourage circular economies, reduced waste, and ultimately carbon emissions. Their technology enables easy waste accounting. And as we know, if you cannot measure it, you are not likely to improve. We see great potential in the marketplace for waste streams, capturing value for the entrepreneurs of tomorrow.

DWAYNE CARROLL
Recycling and Sustainability Project Lead
Allaxis Group

Ever since being introduced to Circlr by the team I have seen the potential for using it to improve traceability and provenance in the building and construction industry, in this industry there are many SMEs that may not necessarily have the capital for complex infrastructure or systems to track and report environmental performance such as waste diversion to their clients (now a crucial part of bidding and winning contracts). Having a simple tool that takes care of that will be of huge benefit for these businesses. In the manufacturing environment knowing where our recycled material has come from and encouraging circular behaviours is also key, so being able to use this platform to do that will also be of benefit for the future.

TUI TAYLOR
ESG Consultant
Icebreaker, The Warehouse Group

Many of the world's most transparent supply chains are facing a major challenge - how to achieve zero waste. Every year, millions of tonnes of clothing are produced, worn, and discarded. Our linear, closed-loop production system is not sustainable for the planet, and like many others in the industry, we must all take responsibility for finding solutions that encourage the redesign and repurposing of our raw materials and waste to ensure nothing is left on the factory floor!

Conscious companies such as Circlr have a set of principles and technology that focus on waste prevention and identify the hotspots in our supply chains to minimise and reduce waste. Circlr's deep commitment to facilitating the collaboration and decarbonisation of our value chains is nothing short of impressive!

BETHANY STANFORD
Sustainability Strategy
Commonwealth Bank

Does that sound like something of value? Yes. 1,000,000% Yes.

Circlr has MOUs and LOIs with Businesses












GROW GOOD MOU PROJECT GREEN GROUP MOU GREEN MEADOWS FARMS MOU PACIFIC PROCESS MOU AVERSTANA LOI WARD DEMOLITION MOU NZ BIOFORESTRY MOU MARDEN METALS MOU MIL-TEK MOU AZOLA CERTIFIED MOU

We have NDAs with the following companies as we further investigate pathways to commercialisation:

Saint Gobain (Singapore) - Manufacturing
Commonwealth Bank (Australia) - Banking




COMMONWEALTH BANK AUS SAINT GOBAIN NOVA CAPITAL

Circlr's technology brings tangible value to the innovation market by addressing environmental challenges, driving business efficiency and resilience, meeting regulatory and stakeholder expectations, and fostering innovation and market leadership.

Our early MOUs and partnerships are with businesses that are eager to scale their innovations, connect to feedstock opportunities, simplify LCAs and EPDs with evidence, and scale circular solutions. Engineering companies have aligned with us because they see our tool as essential for quantifying and creating evidence in case studies that support investment in more efficient machinery and processes across industries.

By providing effective tools and strategies for businesses to transition to more sustainable practices, Circlr plays a crucial role in advancing the global clean tech industry and creating a more environmentally conscious economy.

Current projects developing pilot opportunities







TWM PAPUA NEW GUINEA TIER ONE MIL-TEK AURECON AIIZ

We have been thought leaders and innovators in the global clean tech market.


















Partners
















Q. Legal entity name
R. Holliday Sisters Tapui Limited

Q. Trading name, if different
R. WALKlightly

****Contact details in applications retracted – request from CWJC administrator.***

Q. New Zealand Business Number (NZBN), if relevant R. 9429050716036

Q. First name
R. Esther

Q. Last name
R. Riley

Q. Position
R. Director

Q. First name
R. Esther

Q. Last name
R. Riley

Q. Total cost of project (\$)
R. 28108

Q. Amount requested from committee (\$)
R. 13800

Q. Detail any other funding and co-funding that you have applied for, or plan to apply for.
R. Creative nz \$13800 (in application phase, aided by their staff via email.)
\$500 from Felt.co.nz to co-organise events at the premise, gala events that help local maker meet buyer.
Sponsorship agreement with textile contributors, ECO Central, untouched world, Weft factory, curtain bank, Albion manufacturers, this involves gifting end of line fabric and textiles destined for landfill.
Support from LIVS to help us transition to a workshop space, facilitating the lease agreement and covering rates.
Page 2 of 3 (2/3)

Q. Start date.
R. 01/08/2024

Q. End date.
R. 01/08/2025

Q. Location:
R. All of Canterbury

Q. Provide a high-level overview of the project and the key outcomes.

R. Project ECO textiles has developed to not only co-ordinate the collection, collation and distribution of textiles destined for landfill, but also help increase the processing these fabrics in collaboration with local artists and fashion designers. Our objective is to create a platform to facilitate local, emerging garment designers/machinists by promoting the use of 2nd hand fabrics and other eco-friendly processes. This project not only aims to exponentially reduce textile waste but to propel a local, self sustainable fashion industry.

For 2023 we created a local fashion directory for Otautahi. This growing database directs online traffic to garments constructed locally. It is through these groups I have become aware of the possibility to initiate sustainable garment processes. Encouraging them to use second-hand fabrics helps reduce textiles in landfill, and reduce the carbon footprint associated with importing and manufacturing fabrics overseas.

Using our growing 'NZ made' fashion directory at [Walklightly.co.nz](https://walklightly.co.nz) we have been offering Canterbury garment construction businesses the opportunity to receive collated fabrics for their upcoming collections. Through our partnership with out textile contributors in Christchurch Otautahi we have been approved to gather textiles free of charge for this project. Through their contacts we are approaching other textile manufactures/ scrap textile groups that will hopefully add to our inventory pool.

Using labelled cardboard boxes and currently my studio as storage space, we want to bring this project into the public eye, with a retail space and transparent workshop. Taking specific textile requests from local designers we have been able to create a system that guides our textile collection process to not take more than we need. Each visit we weigh the total textiles taken for statistical use in promoting the project for future sponsorship. As these garment businesses productivity and sales increase, so does their demand for textiles destined for landfill. The initial delivery is made in person to the designers studio/ workspace to establish our working relationship, this involves an interview on their construction processes, insight into their design story for social media promotion, and the agreement that all scraps are returned to WALKlightly headquarters, or weighed and those weights are relayed back to me to complete a more accurate measurement of the waste reduced. The workroom for processing the bi-product scraps will provide Ara fashion graduates and work placement opportunities for experince in a factory environment. This zero-waste system will be fully transparent, provide us great content to share and promote this system, and provide a second life for fabric that would otherwise ultimately return to landfill, we have 3 keen machinists (Fashion school graduates) who have collaborated construction processes for re-working these scraps into products to be sold under the ECO textile label. Mock-up patch tags made from scrap fabric screen printed by a local printer, care labels made in NZ and swing tags (100% recycled paper) promoting the use of ECO textiles 're-made in NZ' will be used to promote this end-of -line range, and can be offered to the wider Canterbury ECO textile members to help promote their products. The swing tag could evolve to be a signature (much like the triangular 'made in NZ' trademark) which has become a desirable certification that promotes being made in NZ AND the re-use of textiles.

This business development aims to create revenue to propel our project and eventually maintain and grow our effort.

Q. Provide an estimated figure of the weight of waste (kg or tonnes) that this project anticipates to divert from landfill.

R. Last year it was 1000kg, widening our effort, being open to the public and building on relationships with designers we are already engaged with, I predict we can double that number. We are also planning a sustainable soft-textile event for November 2024 that is not part of this budget, but this event will encourage the use of waste textiles re-made.

Q. Detail any other environmental and/or community benefits associated with this project.

R. The promotion of local individual fashion houses re-using textile waste encourages an alternative purchase option, preventing carbon emissions on a global scale. Reducing transport of textiles from

overseas reduces air pollution and contributes to the efforts to reduce waste and bi-products associated with fabric production and garment construction.

Social community benefits include connecting makers to buyers. This relationship enables development of social identity through textiles/ clothing. Increasing custom made garments and design that reflects our culture.

Encouraging emerging and young designers to be involved through design and construction competitions, the accessibility to textiles aids students and young business to launch, industry skills to develop to a level with overseas competitors.

Q. Outline the key project stages or milestones.

R..Our list of Textile contributors has grown to include many reputable companies, providing new off-cuts and end of line rolls:

- Albion Chch manufacture for Cactus and various other NZ contracts like Police and army uniforms.
- Untouched World, a sustainable fashion manufacturer here in Chch.
- Ruby an NZ garment manufacturer
- Weft knitt manufacturer in Chch
- Earth Sea Sky performance clothing manufacturer in Chch And quality second hand soft-textiles from:
- the curtain bank
- various opp-shops collecting and sorting on our behalf -and the original supporter ECO Central Our

list of artists receiving these textiles for re-use has grown to include:

https://www.instagram.com/future_nz/?igsh=NHI1dDQ3ZHAwajUw
<https://www.instagram.com/discipleofdiscipline/?igsh=MXI2Nmtldmw0NXF1dg%3D%3D>
<https://www.instagram.com/elodysaddictions/?igsh=eDlxYmw2NWUwcWdz>
https://www.instagram.com/future_nz/?igsh=NHI1dDQ3ZHAwajUw
<https://www.instagram.com/discipleofdiscipline/?igsh=MXI2Nmtldmw0NXF1dg%3D%3D>
https://www.instagram.com/jack_bradley_fashion/?igsh=MTE2YWdmODEya28zbg%3D%3D
https://www.instagram.com/flamank_clothing/?igsh=bzZ6aG95MWVyeW51
https://www.instagram.com/ode_adornment/
<https://www.instagram.com/last.nz/>
https://www.instagram.com/tahlia_king_artist/
https://www.instagram.com/thirtynine_label/?igsh=MWw3bGxuZXR4cmFzZg%3D%3D
https://www.instagram.com/testarotta_fashion/?igsh=bWU2N3Z0bGw3OW5q
https://www.instagram.com/enchantress_nz/?igsh=MW01eDJoeWF5eGxzaw%3D%3D

And currently X4 Ara fashion students.

I have done my introduction class with fashion students at Ara, informing them of the textile option I am providing, and have arranged to make it a visit per term, demonstrating options for the next life of their scrap fabric, and how to reduce waste.

Support from NZ craft platform Felt.co.nz has given us the opportunity to co-plan a market event this Xmas for the creatives using textiles destined for landfill. A community event to spread the word about garment re-construction, a marketable identity that unites our community of artists and designers (and of course sales opportunities for them).

We were gifted x2 industrial sewing machines from Earth Sea Sky, an unexpected cost was deducted from the budget to service them, but an asset gained as they are both in great working order! These will be greatly utilised in our scrap processing workshop.

Q. Outline the governance structure for the project.

R. As sole director and co-ordinator of WALKlightly I currently work voluntarily overseeing all the aspects of this project. This involves articulating the projects objectives, business administration, reaching out and corresponding with aligning businesses, drafting agreements and sponsorship letters, planning the order of-and directing the production of social media content, planning for growth/ delegating tasks to aid promotion for the upscale of 2nd hand textile use.

Division of responsibilities within the decision making process currently all reside with me due to the early stage in the projects development, however with the opening of the workshop Jack Bradley, Sarah from ODE adornment, Aggie Palmer and a few others will be more hands on with the running of tutorials and sorting fabrics ect in return for workspace. I have a monthly meeting with a voluntary committee of 6 women to discuss and brainstorm my key objectives, some of these members will be rostered members in the workshop and manning the counter.

Q. What are the measures of success?

R. Quantities of textiles are measured by weight give us a clear view of the reduction of textiles destined for landfill. Statistics are gathered at collection, and scraps weighed at the end of the individual garment construction process for an accurate record of entire waste-reduction -sales of garments made using ECO textiles through WALKlightly workshop (to further reduce waste by re-constructing the scraps, in turn provide revenue to potentially sustain this project for the future. -growth of numbers following our social media, promoting the message -reduce textile waste. -for every product re-made in NZ from ECO textiles (by our participating fashion houses,) we are potentially providing an alternative to an off-shore product, with a much higher carbon footprint. Imports account for half of New Zealand's carbon footprint, if 're-made in NZ' this is greatly reduced. Although this is hard to measure, we have found a simple method to monitor the number of sales through offering our ECO textile recipients swing tags. This number roughly equates to the number of garments otherwise purchased incurring an international transport carbon emission, a transport emission calculator can then be used to estimate the total carbon emissions by international transport reduced by choosing an alternative, locally made garment. Not including emissions and bi-products involved in the manufacturing of the garment!
Mentions and feature articles in media/magazines/ radio to broadcast our achievements and spread the slow-fashion business model.

Q. Who are the key stakeholders?

R. Holliday Sisters Tapui Limited (trading as WALKlightly) as non-profit business owner -textile contributors under partnership providing free textiles in exchange for reduction of landfill initiative project .

-testimonials from artists and fashion designers who will be involved with this project

-testimonial from Ara tutors supporting our relationship to reach zero-waste goals, and support the students outside of school with retail opportunities and job placement.

-my work with @jack_bradley on the first run of eco-textile products. I can have photos of this by the end of the week.Q. Why is this project achievable and what relevant experience does the project manager and/or legal entity have in delivering waste minimisation or similar projects?

R. The goals met through the project in 2023/2024 has been encouraging, with lots of positive feedback and interest in the planning this workshop. A key aspect to ensuring this projects success is that the receiving parties of these textile bundles are currently in business, operating/ manufacturing garments to maintain business without our help. This provides a systematic demand for processing the waste textiles. Our part in facilitating this process is simple, and its success is achievable through co-ordination and promotion of the participating ECO textile members. This was a key part of project managing WALKlightly fashion initiative project in 2022, a catwalk showcasing locally-constructed and sustainability-focused fashion labels. This event provided me with the experience in coordinating and organising a large amount of creative teams in a professional, productive manner. It was through this event that I became aware of the opportunity to facilitate more eco-friendly fabrics into their garment construction processes. I am also a fashion student graduate from CPIT (now ARA) and continue to sew as a local neighborhood repair and seamstress @beckenhamrepairs on Facebook. This has given me the relative insight into garment construction

which has helped me connect with our local garment construction industry. I have over 15 years experience in re-using second hand textiles, the various issues and problem solving involved with re-constructing, natural dyes, zero-waste patterns and re-purposing scraps. Promotional content /social media were also a big part of advertising the show, these skills are relevant when pitching to prospective designers and sponsors, also sharing the message and advocating for re-use of textiles. See <https://www.instagram.com/walk/>

Q. What information will be tracked and evaluated at completion of the project?

R. Commission of re-made products will be recorded to help plan our financial independence. A review of the fibre content and re-usability of textiles designed for waste will give us useful statistics when applying for future waste textile processing support. We follow international groups re-spinning waste fabric into thread in an industrial way and this is part of our long term goal. All textiles accepted by WALKlightly will be weighed, and again on distribution to garment construction businesses. On return of their waste materials that will also be weighed, unless it can be used by our ECO textile workshop. This should give us an accurate statistic for textiles reduced from landfill over the course of our project. Also plotting these statistics monthly will show fluctuation of the amounts of textiles we are re-distributing, allowing us to reflect on contributing factors to the projects success. The types of fabrics (fibre content, weave, knitt, colour and weight) are also logged under each member of ECO textiles.

Q. What are the key project risks and how will they be reduced or mitigated?

R. The retail goals we have for commission of re-made products (see budget for our goals to cover costs). This will be experimental and may fluctuate over the seasons, we will capitalise on this by creating a calendar that makes the most of school holidays (timing tutorials for children) gift giving opportunities like Xmas, Easter, Mother's Day ect, online campaigns, sharing through our creative community.

Contamination of textiles, the risk is low as they have been pre sorted by ECO central by staff with heightened safety procedures already in place, by the time WALKlightly survey the textiles the risk of contamination is greatly reduced. If there is fabric that appears to be salvageable but requires some industry-standard cleaning we will take the necessary health and safety precautions to transport the textile in a plastic tub.

Q. How will the Health and Safety at Work Act 2015 requirements be implemented and managed for this project?

R. In a written agreement with those businesses receiving ECO textiles it is noted that the fabrics are not pre-cleaned, they are sorted at the depo and surveyed again by WALKlightly to be approved for quality assurance. Collected from our storage warehouse which is maintained at health and safety standards in a dry, pest-free condition. Also in our agreement with receiving textile businesses is the recommendation that the textiles are pre-washed before beginning the garment construction process to improve re-salability, reduce any odor sustained through the collection process. The only current staff member being myself recognizes the safety procedures of the warehouse in which i operate through the sponsoring business owners, and general day-to-day work involved for project ECO textiles does not involve high risk of health or safety.

Q. Will the project require any resource consent from the regional council or territorial authority?

R. No

Q. Is your activity an existing permitted activity?

R. Yes

Q. Outline any circular economy principles, such as the whole lifecycle of a product.

R. Many textiles destined for landfill are rejected not on account of the fibers being worn out, in most cases it is a defect such as a hole, broken zip, stain or tear. The ability to mend these aspects or re-construct entirely, not only gives rise to our budding garment construction industry but puts that garment back into circulation for a second life. The economical life of the garment is therefore extended and profits local businesses, at the same time providing an alternative to imported goods.

Q. How does the project foster innovation?

R. It promotes innovative design and re-construction, zero-waste pattern making and other sustainable processes. Promoting the aesthetic appeal as well as the ecological appeal to re-constructed clothing. The project itself promotes communication and connectivity withing the Canterbury garment construction industry, ultimately leading to innovative and collaborative business.

Q. Will the project contribute towards one or more of the following?

R. - Reduction: Lessening waste generation.
- Reuse: Further use of products in their existing form for their original or similar purpose.
- Recycling: Reprocessing waste materials to produce new products.

Q. How will the project contribute towards one or more of the above?

R. - Reduction: Lessening waste generation.
- Reuse: Further use of products in their existing form for their original or similar purpose. -
Recycling: Reprocessing waste materials to produce new products.
Reduction: facilitating the manufacture and promotion of an eco alternative to fast fashion, a major contributor to textile waste entering landfill.
Reuse: Re-construction of garments using zero-waste processes, repair ect gives the item a second life. We will be facilitating this process by collating the desired textiles for local garment construction businesses, aligning with their construction method.
Recycling: Other textiles require a larger re-construction process, intercepting textiles destined for landfill provides ECO textiles with our raw materials, then it is up to local garment construction businesses to create new products. This becomes a selling point for marketing and also sends a positive message promoting re-construction and a self-sustainable fashion industry.

Q. How does the project improve resource efficiency and capitalise on any other commercial benefits?

R. Resource efficiency is improved through project ECO textiles firstly by preventing the garment construction business involved from importing more fabrics, when ultimately at the end of a garments life it ends up at landfill, it saves a garments life as well as doubles an existing one. This project encourages assessment of scrap textiles at the end of the construction process highlights the effort to maximize waste reduction. Storage and inventory management are the key components that allow ECO textiles to facilitate this project. By setting up relationships with textile waste providers we aim to reduce emissions associated with transport, the in-house sorting, collating and storage minimalizes frequent visits to our textile contributors.
Commercial benefits include sponsorship from aligning local businesses, promoting the reduction of waste and a more sustainable fashion industry is a major attraction for industry support and garment sales. These sponsorship deals and partnerships ensure the future of this initiative, it benefits their commercial image to be associated with an eco-friendly initiative.

Q. Does the project reduce any hazardous substance or production of hazardous waste?

R. Yes

Q. How does the project reduce any hazardous substance or production of hazardous waste?

R. It can take 200+ years for the materials to decompose in a landfill. During the decomposition process, textiles generate greenhouse methane gas and leach toxic chemicals and dyes into the groundwater and our soil.

Q. Does the project:

R.

Q. Outline the cost-effectiveness of the project and indicate the cost per kg of waste diverted from landfill if possible.

R. The costs associated with the initial set-up (sorting system, internal scrap re-cycling, promotion of partnerships and waste-reduction goals/methods- detailed in budget) establish this project to be self-sustainable while attracting further sponsors.

Admin and transport costs associated with sorting and collection are the only costs directly associated with delegating these textiles, as more members join transport costs reduce per kg. For this year at the highest rate we estimate \$6.50 per kg of waste diverted from landfill, If our retail goals become stable by the end of this business year we should be able to support ourselves with this projected budget, bringing this estimate to zero by July 2025.

Q. Describe your ability to deliver the project and provide any relevant track record.

R. My name is Esther Riley, I am the coordinator of the fashion initiative WALKlightly, set up to combat textile waste and promote and support a local sustainable fashion industry. As a non-profit organisation we find industry support for local-emerging garment designers/machinists, promoting the use of 2nd hand fabrics and other eco-friendly processes.

After the success of our first sustainability-focused catwalk show in 2022 I am planning our next show for November 2024! This biennial event is a major showcasing event for local garment construction, propelling the local designers and their efforts to create a more sustainable industry. See footage and photo-stills here on our website: Walklightly.co.nz

With one year of ECO textiles under my belt I am excited about this endeavour and the progress we are making. I feel it is the start of a life long passion. By background in fashion design, theatre and dance have given me many connections in the industry already, and the past few years have created a solid platform for me to continue this non-profit initiative.

Q. Provide any other supporting information, such as links to websites and social media.

R. www.walklightly.do.nz -our working progress, on a minimal budget we aid to develop this website into a interactive reference for all ages, spreading our support for sustainable textiles. @walk_lightly_nz our Instagram captures most of our community, where we have made many of our industry connections and advocate for nz re-made.

[Dempstah](#) This is an initiative we are learning from, remade fibre with the addition of Nz wool.

[Remade in L.A. – SUAY \(suayla.com\)](#)

This is an American company with a similar ethos and business model for remade products. Like them we will be online and instore, with a heightened focus on emerging designers and young sustainable creative (tictoc, instagram, Facebook and engaging with Ara and even high school students will be a bigger part of our mission for 2024/25.) I don't have the testimonials back from the fibre artists and designers onboard, but I have sent them a very comprehensible email to help speed it up, I will send these through asap, these are the profiles of the associates;

https://www.instagram.com/future_nz/?igsh=NHI1dDQ3ZHAwajUw

<https://www.instagram.com/discipleofdiscipline/?igsh=MXI2Nmtldmw0NXF1dg%3D%3D>

<https://www.instagram.com/elodysaddictions/?igsh=eDlxYmw2NWUwcWdz>

https://www.instagram.com/jack_bradley_fashion/?igsh=MTE2YWdmODEya28zbg%3D%3D

https://www.instagram.com/flamank_clothing/?igsh=bzZ6aG95MWVyeW51
https://www.instagram.com/ode_adornment/
<https://www.instagram.com/last.nz/>
https://www.instagram.com/tahlia_king_artist/
https://www.instagram.com/thirtynine_label/?igsh=MWw3bGxuZXR4cmFzZg%3D%3D
https://www.instagram.com/testarotta_fashion/?igsh=bWU2N3Z0bGw3OW5q
https://www.instagram.com/enchantress_nz/?igsh=MW01eDJoeWF5eGxzaw%3D%3D

Budget for Sample Studio.xlsx - Budget Template (1).pdf (69 Kb.):

Applicant: Esther Riley, WALKlightly

PROJECT COSTS	Description	Quantity	@	Item Cost	Total	CCC Request
Eftpos	quote from Total Pos solutions on Fitzgerald St, \$50 per month	12		\$50.00	\$600.00	
Power	Estimate for 12 months, electricity at the workshop	12		\$196.00		
consumables		52		\$3.00	\$156.00	
	Toilet paper and housekeeping					
fit out		1		\$800.00	\$800.00	
	window decal or instillation to create more privacy					
fit out		1		\$500.00	\$500.00	
	counter top for sales processing					
fit out		3		\$200.00	\$600.00	
	hanging racks					
rent	estimated for a 12 month period, central city with high foot traffic, industrial aesthetic, gallery style workshop.	1		\$20,000.00	\$20,000.00	
equipment		1		\$3,000.00	\$3,000.00	
	coverseam machine for professional finish on patchwork					
equipment		1		\$100.00	\$100.00	
	an iron and table					
Tutor	Tutor for art or fashion design textile evening classes. Zero-waste garment construction, weaving, knitting ect tutor led classes, x2 per month	24	@	\$150.00	3600	
TOTAL PROJECT COSTS (A)					\$28,108.00	\$0.00

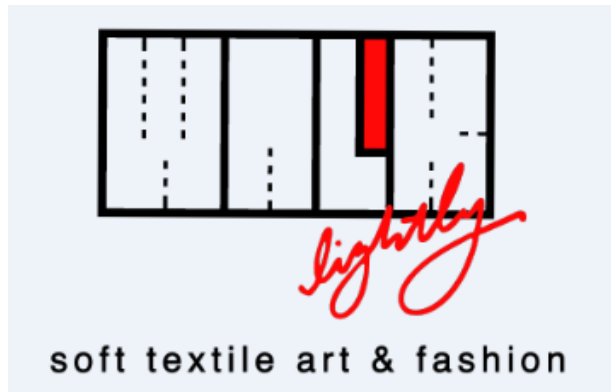
Item 7

Attachment Q

PROJECT INCOME		Quantity	@	Item Cost	Total	
creative NZ funding	Funding this creative community allows us to utalize textiles going to waste, and propel emerging, sustainable, soft-textile fashion and art	1				
Waste Minialisation grant CCC	Funding this creative community allows us to utalize textiles going to waste, and propel emerging, sustainable, soft-textile fashion and art	1				
Felt funding	craft online platform sponsorship felt.co.nz	1		\$500.00		
Retail Clothing	Garments made by independant fashion designers and students in Otautahi, comisson 20%	52	@	\$100.00	\$5,200.00	
retail products	products made in-house at WALKlightly workshop from re-made from waste fabrics, collected, sorted, cleaned and manufactured onsite by Fashion graduates.	52		\$300.00	15600	
fabric library	remaining fabric not assigned to students and designers will be available to the public to pick and choose, retail by weight, a fun process using large hanging scales (like buying ham at a deli). 1kg= \$5	52	@	\$50.00	2600	

rentable space	one-off photo-shoots, rentable meeting place for designers and clients to do fittings	12	@	\$60.00	720	
Evening classes	on zero-waste garment construction, weaving, knitting tutor led classes	24	@	\$150.00	3600	
TOTAL CASH INCOME						
IN-KIND SUPPORT					\$27,720.00	
TOTAL OTHER IN-KIND SUPPORT					\$27,720.00	
AMOUNT REQUESTED FROM CCC					\$0.00	
TOTAL PROJECT INCOME (B)					\$27,720.00	
REVENUE (B) LESS COSTS (A) = (DEFICIT/SURPLUS)					-\$388.00	

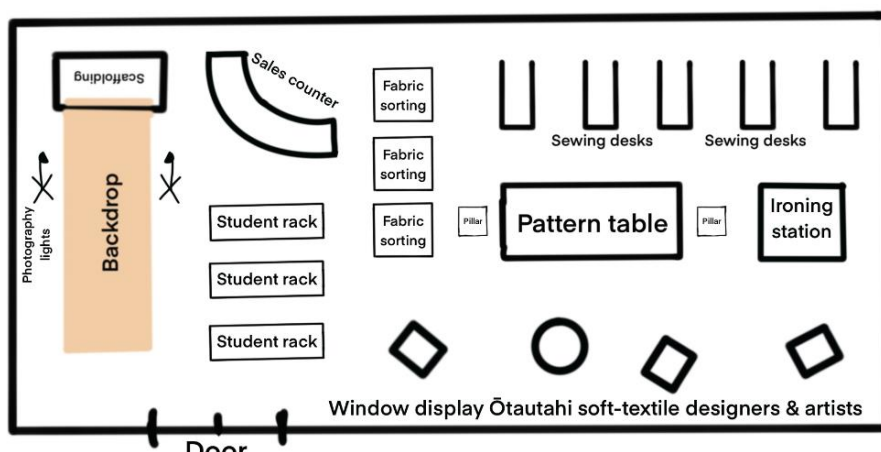
Ultra_HD_(4K)_8.png (153 Kb.): Untitled_Artwork-1.png (195 Kb.):

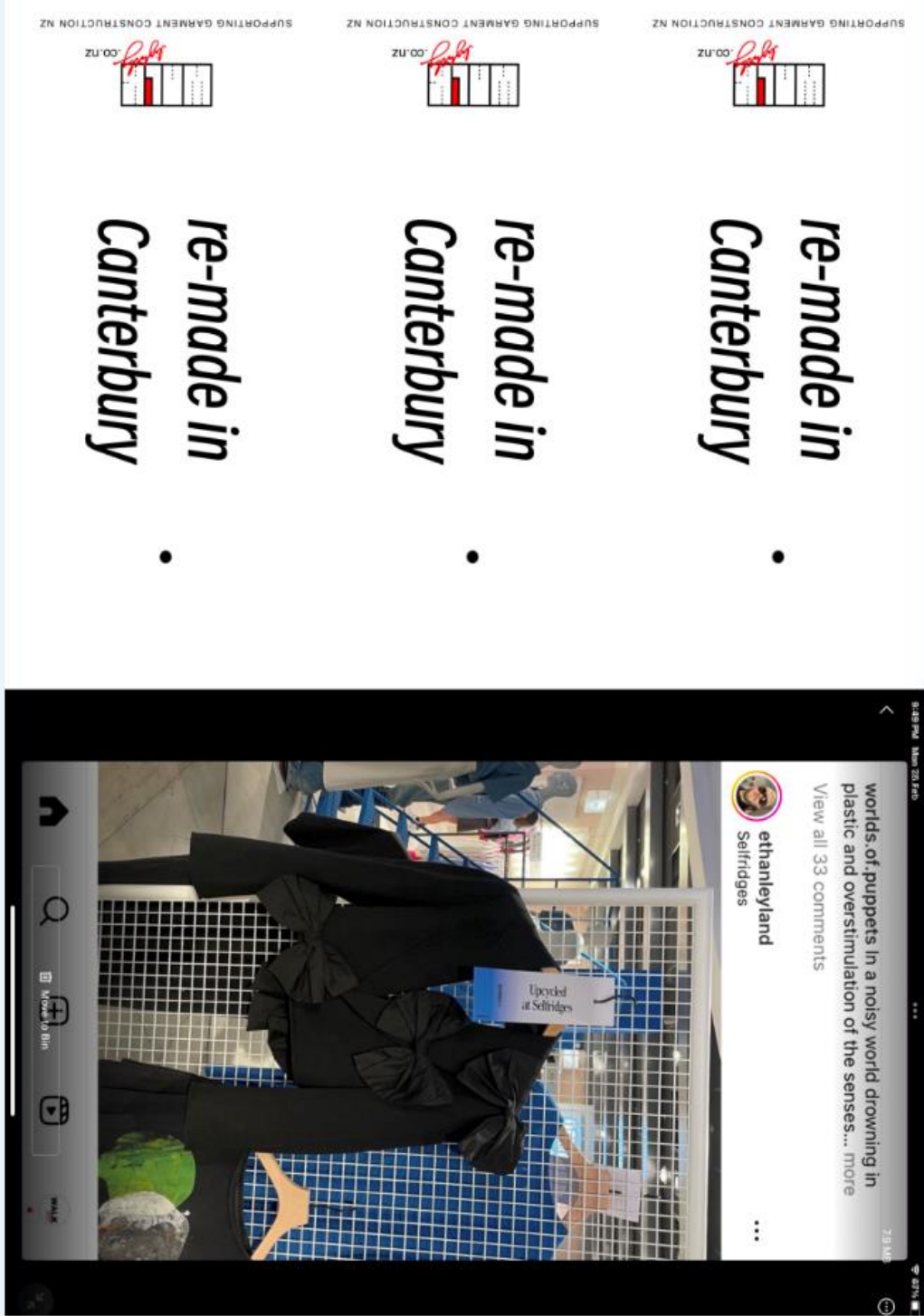


Zero waste NZ logo_v.jpg (170 Kb.):



CIRCULAR GARMENT CONSTRUCTION





Esther Riley

50/1 Palatine Tce
Christchurch, 8022
0275295206

walkfashionshownz@gmail.com



20/02/2024

Business plan for WALKlightly.

THE SPACE

This retail space will predominantly be used for the sale of clothing made by independent designers from across Canterbury. There are currently gift shops retailing NZ made, individual shops stocking NZ designers, but we are missing a hotspot for hosting a collective of local soft-textile artists and fashion designers!

Being central with high foot-traffic is essential, because our funding supports the artistic and sustainability aspects of our business plan, we wish to express these concepts with maximum public interest. A beautiful, abstract window display to express our love for design, pattern making and construction, a 'peep-through' view into our 're-made' workshop shows ultimate transparency, and an easy location for the public to drop off and/or buy waste fabrics. (See photos attached of our assets ready to bring.)

Shop name: WALKlightly re-made Workshop.

Products: Small runs of designer clothing made by local independent designers. In-line with our collaboration with Ara (providing off-cuts and end of line fabrics for students) we would like to offer them a rack at the shop where the students can retail their work.

We currently supply fabric for the following designers in Otautahi (their garments would make up our initial stock).

<https://www.walklightly.co.nz/flamank-clothing>

<https://www.walklightly.co.nz/future>

<https://www.walklightly.co.nz/ode-adornment>

<https://www.walklightly.co.nz/jack-bradley>

<https://www.walklightly.co.nz/enchantress>

[Thirtynine](#)

Display:

In-line with our ethos to create clothing 'lightly' we would like to display slow-fashion garments with particular attention to method and fibre choice. In a 'museum' style display, on podiums with a plaque we would display hand woven woolen garments, intricate patchwork and raranga garments made from harakeke muka see [EMERGING DESIGNERS | Walklightly.co.nz](https://www.walklightly.co.nz/emerging-designers/).

Textile library:

In the 2nd half of the shop, arranged in a meticulous order we would have our fabric library, collected from our industry partners: (available to our designers, and a curated section available to the public to buy.)

- earth sea sky factory
- albion factory
- weft factory
- untouched world factory
- ruby factory
- curtain bank
- eco shop textiles

As a fashion initiative we work to benefit the garment construction industry in Otautahi using a waste-minimisation grant through the Christchurch City Council. I have spent the past year building industry relationships to set up this textile ring to reduce waste. This is the backbone of our organisation, a system we can measure by weight to easily convey our progress, which greatly benefits emerging designers, with scheduled photoshoot opportunities every two months.

Open Hrs:

Mon-Tues

10am - 2pm

Wen - Sunday

10am - 5pm

CONTRIBUTIONS

- Waste minimisation grant through CCC \$13,000

-Creative NZ \$13,000

-Felt.do.nz \$500 sponsorship

-Ara fashion school support and endorsement

-Textile contributors Albion, Earth Sea Sky, Untouched World, Ruby, Weft, ECO shop, Curtain Bank, this means we are in constant supply of fabric for our local designers, excess sorted and available to the public to buy-by-weight, and products made in the sample studio, similar to 'trade aid' homewear (patchwork).

The initiative already has a network of people in Christchurch associated in some way with the development so far, their audiences included;

-portfolio modeling agency

-gm hair salon

-the fabric store

-Felt (online craft platform) sponsor for the 2024 catwalk

-ethique

-local filmographers, photographers / make-up and hair artists.

HISTORY

Here is a brief history of the companies growth;

2022 we united local fashion industry professionals in a catwalk of collections constructed using sustainable processes. To follow was a 10day pop-up shop in the Guthrey Centre, where the designers had their garments from the show, an opportunity for us to support for their sales!

2023 we created a directory of fashion labels (independent and established) that have their garments constructed in Aotearoa. We mapped all the stockist for NZ made fashion throughout Canterbury and is available on our website. Along with a fashion illustration competition and a zero-waste challenge we maintained and grew relationships within the Christchurch fashion industry.

2024 publishing of the shopping directory map brochure for Christchurch visitors at the airport and other tourist destinations. Planning for our July 2024 catwalk showcasing local garment construction.

Thank you for your time,

Sincerely,

Esther Riley

8. Annual Budget Update for the Canterbury Waste Joint Committee

Reference Te Tohutoro: 24/1202375

Responsible Officer(s) Te Pou Matua: Eilidh Hilson, Regional Waste Projects Facilitator

Accountable ELT Member Pouwhakarae: Brent Smith, Acting General Manager City Infrastructure

1. Purpose and Origin of the Report Te Pūtake Pūrongo

- 1.1 The purpose of this report is to update the population-based percentage split of each member councils' pro rata contributions to shared funding, with the latest Consumer Price Index (CPI) at the time of writing (Q1 2024).
- 1.2 To consider options for the future of the shared services Regional Waste Projects Facilitator role, funded through this mechanism, to support delivery and co-ordination of the Canterbury Joint Waste Committee (CWJC) funded and initiated projects.

2. Officer Recommendations Ngā Tūtohu

That the Canterbury Waste Joint Committee:

1. Receives the information in the Report.
2. Recommends to member Councils that the pro rata contributions to the \$112,000 waste minimisation projects contestable fund are updated, based on the 2023 census population data and the Q1 2024 CPI.
3. Considers the options presented for the future of the Regional Waste Projects Facilitator role, to continue progressing collaborative waste minimisation and management across the region.
4. Approves the option of a 1FTE permanent position, with a salary cap of \$86,400 for the first year, to be advertised on the open market and employed by Christchurch City Council, with flexible working options across other member councils.
5. Notes that the decision in this report is assessed as low significance based on the Christchurch City Council's Significance and Engagement Policy.

3. Executive Summary Te Whakarāpopoto Matua

- 3.1 As per the constituting agreement, staff have updated the Q1 2024 CPI, for the CWJC Waste Minimisation Fund, from \$112,000 to \$120,000.
- 3.2 The following options for the future of the Regional Waste Projects Facilitator position, have been prepared by staff for consideration, in addition to this.
- 3.3 Preference is to commence recruitment and permanent appointment of 1FTE to be in the position at the start of February 2025, when the current fixed term role employment ends. The preference is to update the total pro rata contributions to cover this, with a salary cap of \$86,400 for the first year, plus a cap of \$48,270.00 for overheads.

4. Background/Context Te Horopaki

- 4.1 Regional Waste Minimisation Co - ordination in Canterbury
https://christchurch.infocouncil.biz/Open/2021/08/CJWC_20210802_AGN_5425_AT.PDF
- 4.2 Regional Shared Resource
https://christchurch.infocouncil.biz/Open/2022/09/CJWC_20220905_AGN_8167_AT.PDF
- 4.3 As per *Schedule 1 – Estimated population and funding percentages* in the constituting agreement (**Attachment A**), the current total annual budget for the Canterbury Waste Joint Committee is \$192,000, consisting of \$112,000 (GST not applicable) contestable funding for regional waste minimisation projects, and \$80,000 (plus GST) for the 1 FTE Regional Waste Projects Facilitator role. Overheads of \$45,180.00 (plus GST) have been split out between the councils in addition to this.
- 4.4 The current pro rata contributions by population basis are set out in *Table 1*. The updated pro rata contributions to shared funding arrangements, based on the 2023 census population data, and the CPI updates, are set out in *Table 2*.

Table 1: Total annual funding split for FY 2023/24 (also used in FY 2022/23)

			2023/24 Fund	1FTE Facilitator Salary	1FTE Facilitator Overheads	Total
			\$ 112,000.00	\$ 80,000.00	\$ 45,180.00	\$ 237,180.00
		ECan 25%	\$ 28,000.00	\$ 20,000.00	\$ -	\$ 48,000.00
TA	Population*	TA 75%				
Christchurch	376,700	66.80%	\$ 51,476.21	\$ 36,768.72	\$ 27,686.85	\$ 115,931.79
Waimakariri	47,600	8.43%	\$ 8,438.08	\$ 6,027.20	\$ 4,538.48	\$ 19,003.76
Hurunui	11,100	1.96%	\$ 1,734.57	\$ 1,238.98	\$ 932.95	\$ 3,906.49
Selwyn	39,600	7.01%	\$ 9,090.18	\$ 6,492.98	\$ 4,889.22	\$ 20,472.38
Ashburton	29,400	5.21%	\$ 4,616.82	\$ 3,297.73	\$ 2,483.19	\$ 10,397.73
Kaikoura	3,800	0.67%	\$ 550.37	\$ 393.12	\$ 296.02	\$ 1,239.51
Waimate	7,550	1.33%	\$ 1,074.65	\$ 767.61	\$ 578.01	\$ 2,420.27
Mackenzie	4,010	0.71%	\$ 706.87	\$ 504.91	\$ 380.19	\$ 1,591.96
Timaru	44,400	7.88%	\$ 6,312.26	\$ 4,508.76	\$ 3,395.09	\$ 14,216.11

*2020 Statistics New Zealand Subnational Estimates. www.statistics.govt.nz

Table 2: Update to percentage split contributions to shared funding arrangements

			2024/25 Fund (CPI general category adjusted, Q1 2024) =\$119649.24	1FTE facilitator 2025 salary (CPI wages category Q1 adjusted= \$86,384.04)	1FTE Facilitator overheads (CPI general category adjusted,Q1)2024= 48,265.65	Total**
	Rounded		\$120,000.00	\$86,400.00	\$48,270.00	254,670
		Ecan 25%	\$30,000.00	\$21,600.00	\$ -	\$51,600.00
TA	Population 2023*	TAs 75%				
Christchurch	391,383	60.29%	\$ 54,261.00	\$39,067.92	\$ 29,101.98	\$ 122, 430.90
Waimakariri	66,246	10.21%	\$ 9,189.00	\$6,616.08	\$ 4,928.37	\$20,733.45
Hurunui	13,608	2.10%	\$ 1,890.00	\$1,360.80	\$ 1,013.67	\$4,264.47
Selwyn	78,144	12.04%	\$ 10,836.00	\$7,801.92	\$ 5,811.71	\$24,449.63
Ashburton	34,746	5.35%	\$ 4,815.00	\$3,466.80	\$ 2,582.45	\$10,864.25
Kaikoura	4,215	0.65%	\$ 585.00	\$421.20	\$ 313.76	\$1,319.96
Waimate	8,121	1.25%	\$ 1,125.00	\$810.00	\$ 603.38	\$2,538.38
Mackenzie	5,115	0.79%	\$ 711.00	\$511.92	\$ 381.33	\$1,604.25
Timaru	47,547	7.32%	\$ 6,588.00	\$4,743.36	\$ 3,533.36	\$14,864.72

*Source: 2023 Census national and subnational usually resident population counts and dwelling counts

<https://www.stats.govt.nz/information-releases/2023-census-population-counts> **Budget requested for costs, up to this maximum amount.

- 4.4 The shared role is currently a full-time fixed term position, for two years, from 31 January 2023 to 31 January 2025. The employee appointed the role after it was put to market, is on secondment from the Christchurch City Council Waste Advisor role and wishes to return to this substantive role at the end of the appointment.
- 4.5 Based on the initial comparison of overhead costs for hosting the position at ECan, and the comparison of in- house services available across the member territorial authorities, CCC were chosen to host the position.
- 4.6 This employee sits within the CCC Resource Recovery Team at the Civic Offices, and with the Regional Council (ECan) Contaminated Land and Hazardous Substances Team, Tuam Street, one day a week as a “contractor”. Visits by appointment to the Territorial Authorities are carried out as needed. However, this is predominately a desk-based role. The 2022 Position Description of the role is attached (**Attachment B**).
- 4.7 In terms of the Committee’s Constituting Agreement, any proposed change requires support from the Committee, and each change needs to individually be approved by all member Councils, by signing the agreement.
- 4.8 Based on updated data from the 2023 census, the changes pro rata contributions to continue the role, are proposed as in Table 2. In addition to this, if this shared service position was continued, a job evaluation would need to be carried out for current sizing for the additional shared service cost. Annual overheads would also need to be reviewed. A cap is suggested in the recommended options.

4.9 The following reasonably practicable options were considered and are assessed in this report.

4.10 The following option was considered but ruled out:

4.10.1 Position discontinued

- This option is not recommended. The shared services Regional Waste Projects Facilitator role supports the efficient and cost-effective delivery and co-ordination of the Canterbury Joint Waste Committee funded and initiated projects, and all liaison, advisory and project administrative needs of the joint staff group.
- If this role were disestablished, staff members of all contributing Councils would be required to undertake this work, which amounts to a 1FTE position. Staff supporting the CWJC do not have capacity to take on the additional tasks that are currently undertaken by the facilitator.
- The funding would return to \$120,000 CPI Q1 2024 adjusted (\$119,649.24 rounded).

Options Descriptions Ngā Kōwhiringa

4.11 Preferred Option: Employment of a Permanent 1FTE Position

4.11.1 Option Description

- Feedback from all member councils, via the staff group would form an updated position description, in the last quarter of the role (current position description attached in **Attachment B**), based on recommendations from findings at that stage of the two - year fixed term trial.
- If approval to proceed is granted, the staff group would work with CCC through the open market recruitment process. Promotion of the role in addition to the standard CCC process would be requested of all CWJC members councils and through the Waste Management Institute of New Zealand (WasteMINZ) advertising channels.
- A salary cap of \$86,000 would be applied, and overheads cap of \$48,270 for the first year. The split of finances is proposed as per the current constituting agreement, in *Table 2*.
- After the first year, the job would undergo any internal rescoping processes as required. Any changes to salary would need to be approved by the CWJC.

4.11.2 Option Advantage

- The continuation of the position would support delivery and coordination of the Canterbury Joint Waste Committee funded projects, reactive collaborative work as required, and a focus on driving projects as directed by the committee, to meet commitments in the CWJC constituting agreement.
- In addition, this work supports member council Waste Minimisation and Managements plans, to ensure regional co – ordination. These activities are encompassed in the attached position description.
- Funding is possible through income received to each Territorial Authority, via the Waste Levy. The Regional Council would need to allocate budget, likely from rates.

4.11.3 Option Disadvantages

- Permanent positions require a longer funding commitment, and additional human resources.

4.12 Second Option: Provision of a Fixed Term Position

4.12.1 Option Description

A position would be advertised as 4.8, however it would be for a period of three years only.

4.12.2 Option Advantages

- As per option 4.8.
- This would allow the opportunity to come up again in three years.
- A shorter commitment from member councils required.

4.12.3 Option Disadvantages

- The CWJC only meet twice a year, and fixed term positions require a regular re- recruitment process, which is costly and affects consistency.
- A fixed term position is likely to limit potential applicants.

5. Financial Implications Ngā Hīraunga Rauemi

Capex/Opex Ngā Utu Whakahaere

	Recommended Option – Permanent 1FTE	Option 2 – Fixed Term 1FTE
Cost to Implement	Cap of \$86,400 per annum	Cap of \$86,400 per annum
Maintenance/Ongoing Costs	Cap of \$48,270 per annum	Overheads currently per annum
Funding Source	Waste Levy income from each member council, and rates if required	Waste Levy income from each member council, and rates if required
Funding Availability	Waste Levy to TAs is being increased nationally to \$75 a tonne by 1 July 2027.	Waste Levy is being increased nationally to \$75 a tonne by 1 July 2027.
Impact on Rates	Minimal – split out across nine TAs, and the regional council	Minimal – split out across nine TAs, and the regional council

6. Considerations Ngā Whai Whakaaro

Risks and Mitigations Ngā Mōrearea me ngā Whakamātautau

Legal Considerations Ngā Hīraunga ā-Ture

6.1 Statutory and/or delegated authority to undertake proposals in the report:

6.1.1 The provision of funding in the constituting agreement would need to be updated.

6.1.2 The signed agreement will then be provided to CCC Legal, as the overseeing administrators of the Committee.

6.2 Other Legal Implications:

6.2.1 There is no legal context, issue, or implication relevant to this decision.

- 6.3 Solid Waste and Resource Recovery
 - 6.3.1 Activity: Solid Waste and Resource Recovery
 - Level of Service: 8.0.6 Engage with Central government, Industry and Sector interest groups on policy and strategy to reduce waste to landfill - 12 interactions per annum.



Climate Change Impact Considerations Ngā Whai Whakaaro mā te Āhuarangi

- 6.4 The decisions in this report are likely to:
 - 6.4.1 Contribute positively to adaptation to the impacts of climate change.
 - 6.4.2 Contribute positively to emissions reductions.
- 6.5 Regional collaboration to manage and minimise waste, assists in the reduction of emissions.
- 6.6 Emissions are produced throughout the lifecycle of a product, and from landfills. While methane is captured and utilised in modern landfill systems, the bulk of emissions have already been created, in the preceding production and transportation of the materials.
- 6.7 Projects to increase the efficiency of resource usage, requires full lifecycle analysis of activities, to monitor accurate emission reductions. This would be a key component of any project management undertaken as a region, to collaboratively reduce wastage.

7. Next Steps Ngā Mahinga ā-muri

- 7.1 If approved to proceed with the recommended option, scoping of the position description as a staff group.

Attachments Ngā Tāpirihanga

No.	Title	Reference	Page
A 	Draft updated CWJC Constituting Agreement Unsigned (August 2024)	24/1202376	467
B 	Regional Waste Projects Facilitator PD October 2022	24/1202377	479

In addition to the attached documents, the following background information is available:

Document Name – Location / File Link
Not applicable

Signatories Ngā Kaiwaitohu

Author	Eilidh Hilson - Regional Waste Projects Facilitator
Approved By	Alec McNeil - Manager Resource Recovery Lynette Ellis - Head of Transport & Waste Management

**CONSTITUTING AGREEMENT OF THE
CANTERBURY WASTE JOINT COMMITTEE**

**ASHBURTON DISTRICT COUNCIL
CANTERBURY REGIONAL COUNCIL
CHRISTCHURCH CITY COUNCIL
HURUNUI DISTRICT COUNCIL
KAIKOURA DISTRICT COUNCIL
MACKENZIE DISTRICT COUNCIL
SELWYN DISTRICT COUNCIL
TIMARU DISTRICT COUNCIL
WAIMAKARIRI DISTRICT COUNCIL
WAIMATE DISTRICT COUNCIL**

CONSTITUTING AGREEMENT

CANTERBURY WASTE JOINT COMMITTEE

MEMBERS:

ASHBURTON DISTRICT COUNCIL, CANTERBURY REGIONAL COUNCIL

CHRISTCHURCH CITY COUNCIL, HURUNUI DISTRICT COUNCIL, KAIKOURA DISTRICT COUNCIL, MACKENZIE DISTRICT COUNCIL, SELWYN DISTRICT COUNCIL, TIMARU DISTRICT COUNCIL, WAIMAKARIRI DISTRICT COUNCIL, and WAIMATE DISTRICT COUNCIL, and their successors, all local authorities under the Local Government Act 2002 (collectively “the Councils” and individually “a Council”)

BACKGROUND AND COMMITTEE TERMS OF REFERENCE

The Canterbury Waste Joint Committee is a joint committee of the Councils appointed in accordance with clauses 30 and 30A of Schedule 7 of the Local Government Act 2002. The terms of reference for the Committee, are that the Committee will deal with all matters relating to the volumes of solid waste sent for disposal through regional waste minimisation initiatives identified by the Committee, including but not limited to allocating the annual funding of the joint committee as set out in this Agreement.

TERMS OF THIS AGREEMENT:

EFFECTIVE DATE

1. This Agreement comes into effect on the date the last Council signs this Agreement.

COMMITTEE

2. Pursuant to clause 30(1) and (5) of Schedule 7 to the Local Government Act 2002 the Councils will appoint and constitute a joint committee to be known as the Canterbury Waste Joint Committee (“the Committee”).
3. The Committee will consist of a maximum of thirteen members as follows:
 - (a) three elected members of the Christchurch City Council;
 - (b) two elected members of the Canterbury Regional Council;
 - (c) eight members made up of one elected member from each of the other Councils.
4. The Committee will report to the Councils at least annually on the exercise of the Committee's functions.

SUBCOMMITTEE

5. The Committee may :
 - (a) appoint a Subcommittee of the Committee pursuant to clause 30(2) of Schedule 7 of the Local Government Act 2002;

- (b) ensure at least one elected member of each of Christchurch City Council and another Council will be members of the Subcommittee. The chairperson of the Subcommittee will be an elected member of the Committee. In all other respects the composition of the Subcommittee will be as determined by the Committee from time to time;
- (c) direct the Subcommittee in such manner as it sees fit from time to time as provided for in clause 30(4) of Schedule 7 of the Local Government Act 2002;

TERMS AND CONDITIONS OF ENTRY

- 6. The Councils agree that other councils in the Canterbury Region may join the Committee, if the council wishing to join accepts the terms and conditions of this Agreement that apply to the District Councils on the Committee. The council wishing to join the Committee is accepted as a member by signing this Agreement (with the new councils name added) and by providing a signed copy of the Agreement to each of the Councils.
- 7. If the council wishing to join the Committee wants any amendment to the terms and conditions of this Agreement, the Councils will only allow the other council to join on such terms and conditions as are agreed unanimously by the Councils and in accordance with clause 8(a).

VARYING THIS AGREEMENT

- 8. This Agreement may be varied:
 - (a) by written agreement between the Councils (and, for the avoidance of doubt, the Committee is not authorised to amend this Agreement) except for any amendment required in order to comply with a change in any applicable law, in which case this Agreement may be amended at the written request of any Council (sent to the other parties) to the minimum extent required to comply with the change in the applicable law; or
 - (b) in the manner provided in clause 6 and clause 25 of this Agreement.

WITHDRAWAL OF COUNCIL

- 9. A Council may only withdraw from the Committee if that Council has complied with all of its obligations under this Constituting Agreement for that funding year, and up to the date of withdrawal and agrees to satisfy its continuing obligations (if any) in a manner which is satisfactory to all of the remaining Councils.

AVOIDANCE OF DISCHARGE

- 10. The Councils declare that they have each resolved that the Committee (and any Subcommittee) will continue to function after a triennial election with the same delegated functions, duties, powers and voting rights that existed prior to that election and accordingly the Committee and any Subcommittee will not be discharged under clause 30(7) of Schedule 7 to the Local Government Act 2002.

QUORUM

- 11. The quorum for a meeting of the Committee is seven members at least one of whom is a member appointed by Christchurch City Council.

12. Any mayor who is a member of the committee solely by operation of section 41A(5) of the Local Government Act 2002 is not counted as a member of the committee for the purposes of determining the quorum.
13. The quorum for a meeting of a Subcommittee will be:
 - (a) half of the members if the number of members (including vacancies) is even, or
 - (b) a majority of members if the number of members (including vacancies) is odd, and;in both cases at least one of whom is a member of Christchurch City Council and one of whom is a member of another Council.

APPOINTMENT AND DISCHARGE OF MEMBERS

14. The power to discharge a member of the Committee and to appoint another in his or her stead, may only be exercised by the Council that made the appointment.

CHAIRPERSON AND DEPUTY

15. The Committee will appoint a chairperson (who must be an elected member appointed by Christchurch City Council) and a deputy chairperson (who must be an elected member appointed by another Council other than Christchurch City Council).

MEETINGS/STANDING ORDERS

16. Meetings of the Committee will be held at Christchurch (unless otherwise agreed) at such times as may be appointed and as are necessary for the performance of the functions, duties and powers delegated under this Agreement. The rules regulating the proceedings of the Committee will be those set out in NZS 9202:2003 "Model Standing Orders for Meetings of Territorial Authorities, Regional Councils and Community Boards" as varied in accordance with this Agreement. For the purposes of the NZS 9202:2003 the "principal administrative officer" means the Chief Executive of the Christchurch City Council or their delegate.
17. Attendance of meetings via telephone or video links from venues outside Christchurch is permitted. Such additional venues will be publicly notified in the same way as the main meeting is notified, and will be open to the public in the same way as the main meeting.
18. Any resolution requiring a decision on a matter of significance to be considered at a meeting of the Committee must be the subject of prior notice which ensures that each member is fully and fairly informed of the background and rationale for any proposal to be considered and the period of notice must be sufficient to enable every member to consult with their appointing Council.

VOTING

19. Notwithstanding anything to the contrary in Model Standing Orders NZS 9202:2003 voting at meetings of the Committee will be:
 - (a) in respect of any matter where the decision relates to the setting of policy and/or a commitment to expenditure, by majority, one vote each, but for the members appointed to represent the Christchurch City Council and the Canterbury Regional Council their votes may only be cast the same way and may not be split.

(b) in respect of all other matters, on the basis of one vote per member, by ordinary majority.

20. To the extent that it may be necessary all of the Councils will procure an amendment to their standing orders to permit voting on the basis set out in clause 19.

CASTING VOTE

21. In all cases where there is an equality of votes the chairperson will have a casting vote. Where a casting vote is to be exercised the following principles will apply:
- (a) the casting vote is to be used in the best interests of the Canterbury community represented by the Councils considered together;
 - (b) the casting vote is to be used in the best interests of the Councils considered together;
 - (c) the Committee members will use their best endeavours to avoid use of a casting vote, by obtaining consensus;

the casting vote will not to be used unreasonably in favour of any one Council.

DELEGATIONS

22. Each Council has delegated the following responsibilities to the Committee: Authority to deal with all matters relating to the volumes of solid waste sent for disposal through regional waste minimisation initiatives identified by the Committee, including but not limited to allocating the annual funding of the joint committee as set out in this Agreement.

FUNDING

23. The annual funding amount for regional waste minimisation will be \$192,000 per year. This amount will be adjusted annually for inflation using the annual percentage change in the Consumers Price Index at June of each subsequent year. Should the annual funding amount need to be increased, the Committee will provide a detailed proposal for consideration by all Councils.
24. All Councils will contribute towards the funding of joint regional waste minimisation initiatives, shared in accordance with the percentages set out in the table in Schedule 1 of this Agreement.
25. Schedule 1 may be updated from time to time by resolution of the Committee, only to redistribute the funding obligation of the Councils in a manner that more accurately reflects the then current population figures or to reflect new member Councils.
26. Each Council will ensure that it pays its due proportion of all such expenditure on the due date for payment, without deduction or set off.

ADMINISTRATIVE COSTS

27. Christchurch City Council agrees to provide such management, administrative, secretarial and accounting services as the Committee will reasonably require at no cost to the other Councils. Nothing in this clause will prevent any Council agreeing to make a contribution towards those costs.
28. For the avoidance of doubt, where Christchurch City Council is directed by the Committee to source any such services (ie other than from its own existing staff), or a Council employs a staff member for a shared services position (to progress waste minimisation and management initiatives

for the benefit of all Councils), the costs incurred will be recoverable from the Councils under clause 24.

GOOD FAITH NEGOTIATIONS

29. In the event of any circumstances arising that were unforeseen by the Councils at the time of entering into of this Agreement or in the event of a dispute in any way relating to this Agreement the Councils will negotiate in good faith to resolve that dispute or to add to or vary this Agreement in order to resolve the impact of those unforeseen circumstances in the best interests of:

- (a) the Councils represented on the Committee considered together; and
- (b) the Canterbury community represented by the Councils considered together.

ARBITRATION

30. Any dispute arising out of the interpretation of this Agreement, including any question regarding its existence, validity or termination, which cannot be resolved by good faith negotiations under clause 29 will be referred to arbitration.
31. If the Councils are unable to agree upon the appointment of a single arbitrator within 10 working days of the receipt of written notification of the desire of a party to have a dispute arbitrated, or if any arbitrator agreed upon refuses or fails to act within 10 working days of his or her appointment, then any party may request the President for the time being of the Canterbury District Law Society to appoint an arbitrator and the arbitration will be carried out in accordance with the Arbitration Act 1996. For the purposes of this clause "working day" has the meaning attributed to those words in Section 2 of the Resource Management Act 1991.
32. In this clause time is of the essence and the Councils agree to be bound by any arbitration decision, determination or award.

SERVICE OF NOTICES

33. Any notice required to be served under this Agreement may be served in the manner provided in Section 152 of the Property Law Act 1952 and in any event will be deemed to be served if actually received.
34. A notice under clause 33 must be addressed:
- (a) in the case of Christchurch City Council or the Committee for the attention of the Legal Services Manager at the Civic Offices, 53 Hereford Street, Christchurch (PO Box 73013, Christchurch); and
 - (b) in the case of every Council other than Christchurch City Council, for the attention of the Principal Administrative Officer of the Council to whom the notice is addressed, to that Council at its principal administrative office.

SIGNATURES

SIGNED on behalf of the **ASHBURTON
DISTRICT COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **CANTERBURY
REGIONAL COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **CHRISTCHURCH
CITY COUNCIL** by:

Signature

Name/Title

SIGNED on behalf of the **HURUNUI
DISTRICT COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **KAIKOURA
DISTRICT COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **MACKENZIE
DISTRICT COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **SELWYN
DISTRICT COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **TIMARU DISTRICT
COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **WAIMAKARIRI
DISTRICT COUNCIL** by:

Signature

Name/Title

Date

SIGNED on behalf of the **WAIMATE
DISTRICT COUNCIL** by:

Signature

Name/Title

Date

11/9/1977

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Item 8

Attachment A

Schedule 1 – Estimated population and funding percentages

Councils	Population *	Funding %
Christchurch	391,383	60.29%
Waimakariri	66,246	10.21%
Hurunui	13,608	2.10%
Selwyn	78,144	12.04%
Ashburton	34,746	5.35%
Kaikoura	4,215	0.65%
Waimate	8,121	1.25%
Mackenzie	5,115	0.79%
Timaru	47,547	7.32%
Total	649,125	100% (to cover 75% of the total annual funding)
ECan		(to cover 25% of the total annual funding)

*2023 Census national and subnational usually resident population counts and dwelling counts Table 2.

11/91977

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Attachment A
Item 8

POSITION DESCRIPTION

TITLE: Regional Waste Projects Facilitator	VACANCY NO: 27115
UNIT: Transport & Waste Management	GROUP: Infrastructure, Planning & Regulatory Services
REPORTS TO: Daily basis to Manager Resource Recovery (CCC) and overall responsibility to the Canterbury Waste Joint Committee (CWJC)	DIRECT REPORTS: n/a
LOCATION: Any Christchurch City Council Location	DATE: October 2022

Purpose of the position:

To deliver support to Canterbury Territorial Authorities and facilitate initiatives that progress towards improved waste minimisation outcomes throughout Canterbury.

The following councils are represented on the Canterbury Waste Joint Committee:

Ashburton District Council, Canterbury Regional Council, Christchurch City Council, Hurunui District Council, Kaikoura District Council, Mackenzie District Council, Selwyn District Council, Timaru District Council, Waimakariri District Council, Waimate District Council.

General:

As an employee of the Council you are required to:

- Respond to the changing needs of the Council, performing other tasks as reasonably required.
- Maintain a strict sense of professional ethics, maintaining confidentiality and privacy as per the Privacy Act and abiding by Council Policy.
- Be responsible for meeting the provisions of the Public Records Act 2005 (PRA) and the Local Government Official Information and Meetings Act 1987 (LGOIMA) in respect of Council information, and for following related Christchurch City Council policies and processes.
- Be associated, as required, with **CIVIL DEFENCE** or any exercise that might be organised in relation to this council function.
- Assist, support and respond to, as reasonably required, any event where the Business Continuity Plan is activated.

Key Areas of Accountability

Operational Management	<ul style="list-style-type: none">• Administer the Canterbury Waste Joint Committee application process and reporting to the Canterbury Waste Joint Committee.• Contribute to the development and the implementation of regional action plans and programmes in accordance with the needs and commitments of the Canterbury Territorial Authorities as guided by the Canterbury Waste Joint Commitment Staff Group.• Facilitate the sharing of resources and educational materials across the Canterbury Territorial Authorities.
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Key Areas of Accountability	
	<ul style="list-style-type: none"> Develop ideas and progress initiatives that promote a circular economy, decarbonisation as well as lead to improved waste management practices and ultimately waste reduction. Visit the territories, and collaborate with contacts to identify available assets across Canterbury. Set up meetings, set agenda meetings and take minutes and then distribute. Create Draft report in Infocouncil and manage contributors input to completion.
Relationship Management	<ul style="list-style-type: none"> Develop and maintain effective partnerships across the Canterbury Territorial Authorities. Act as a liaison to coordinate between the committee and various agencies. Communicate with various different stakeholders from diverse backgrounds in order to achieve the objectives of the committee. Coordinate with the Communications Team as required on initiatives being implemented.
Project Management	<ul style="list-style-type: none"> Investigate initiatives directed by the committee, including but not limited to the feasibility and clarification of outcomes, and apply project methodology to support implementation. This may include putting together a project team from different stakeholders. Ensuring risks and issues are identified and communicated in a timely fashion, and escalate those that cannot be avoided. Working collaboratively to resolve complex issues and avoid risks to the project. Ensuring appropriate change control processes are followed. Ensuring the project delivers the agreed project, within scope, time and budget. Ensuring the project team and key stakeholders are kept informed across relevant project activities. Responsible for ensuring meeting agendas, meeting minutes, key decisions and other project records are documented and filed appropriately. Responsible for ensuring appropriate project documentation is maintained and appropriate approvals are obtained.
Funding	<ul style="list-style-type: none"> Draft and submit funding applications to the Ministry for the Environment on initiatives. Allocate funding to the initiatives. Follow up with funding recipients and report on whether the funding was spent in accordance with the proposal. Collaborate with internal funding teams for support
Health & Safety	<ul style="list-style-type: none"> Responsible for keeping yourself and others safe while at work, complying with Council health and safety systems and wearing protective clothing and using equipment provided.
Budget	<ul style="list-style-type: none"> Accountable and responsible for managing a budget of \$Nil
Delegations	<ul style="list-style-type: none"> Delegated authority is as per the Register of Delegations on the Christchurch City Council website.

Key Relationships/Customers:	
Internal	Nature of the Relationship
Manager Resource Recovery	Reports to
Resource Recovery Team	Works with, communicates and liaise with
Communications Team	Coordinate and liaise with
External	Nature of the Relationship
Canterbury Waste Joint Committee Staff Group	Works with, communicates and liaise with
Recipients of funds from the Canterbury Waste Joint Committee	Works with, communicates and liaise with
Waste contractors and waste solution providers	Works with, communicates and liaise with
Waste educators and waste service providers	Works with, communicates and liaise with

Formal Qualifications and Training	Required	Desirable
Tertiary qualification at Certificate/ Diploma/ Degree level in relevant field, such as planning, policy, environmental, education or social work, or relevant experience to demonstrate an equivalent level of knowledge	✓	
A related post-graduate qualification		✓
Current full drivers licence	✓	

Key Experience/Knowledge/Skills/Competencies	Required	Desirable
Minimum 5 years' relevant experience	✓	
Excellent communication and engagement skills	✓	
Proven experience in implementing projects and influencing people from diverse backgrounds	✓	
Well-developed relationship skills with a proven ability to work and relate with all sorts of people	✓	
Demonstrable working relationships that are intercultural and/or within the commercial sector would be desirable	✓	
Technical knowledge on waste management principles and the waste management hierarchy	✓	
Technical knowledge on the Waste Minimisation Act, Litter Act and the Resource Management Act (related to waste management)	✓	
High competence in computer literacy.	✓	
Partnerships & consultation <ul style="list-style-type: none"> Builds positive relationships with stakeholders to encourage involvement. Actively listens in order to understand stakeholder needs. 	✓	

Key Experience/Knowledge/Skills/Competencies	Required	Desirable
<ul style="list-style-type: none"> Welcomes and positively explores differences of opinion; open to changing own point of view. Stays calm in the face of challenging or emotive situations. Understands how to engage with Maori and can do so with confidence. 		
Strategic focus <ul style="list-style-type: none"> Keeps up to date with Council and community activity that affects their role and the roles of others in their immediate team. Understands the services provided on behalf of Council are detailed in an Annual Plan and a Long Term Plan. Is aware of the need to consider community desires within social, economic, environmental and legislative constraints. Appreciates the need for long term strategies that steer the nature of the services Council delivers. 	✓	
Working collaboratively <ul style="list-style-type: none"> Co-operates to find solutions which achieve your goals and those of others. Asks others for their ideas and input. Helps others willingly and is willing to accept help. Gets to know people outside of their own team. 	✓	
Focus on results <ul style="list-style-type: none"> Can be counted on to achieve goals successfully and safely. Monitors own progress and is willing to try different approaches in order to be successful. Is proactive in highlighting barriers which affect the delivery of services/results. Acknowledges others progress and success; giving feedback and credit where it's due. 	✓	

POSITION DESCRIPTION

How the position fits into the organisation:

