

# **Submissions on the AKAROA WASTEWATER SCHEME**

## **Submissions**

**CHRISTCHURCH CITY COUNCIL  
AKAROA WASTEWATER SCHEME**

**SUBMISSIONS**

<b>Submission Number</b>	<b>Submitter</b>	<b>Page No</b>
145	Fiona Nicol	1
174	Steven Beaumont	3
175	Christine Beaumont	5
295	Mary Smillie	7
296	Hilary Hancock	9
317	Gary Knight	12
318	Edward Luisetti	15
324	Lindy Drury	18
355	Richard Butcher	20
357	Nigel Ferguson & Nicky Polson	23
379	Alan Jones	26
382	Stuart Ford	28
421	Richard Haley	30
423	Bob Nichol	33
434	Pat McEvedy	36
438	Mrs C W Weir	39
439	Kevin Kerr	43
444	Jane Cook	46
458	Alex Simpson	49
465	Pippa and Ged Foley	69
466	Robyn Grigg	71
468	R C and S R Lovett	74
469	Audrey French	77
470	Bruce Wales	80
473	Ivan Crow	82
475	Andrew McGeorge	86
502	Peter Marshall	89
503	Wilfred (Bill) Turner	92
505	Paul Crump	95
506	Marion Wilson	98
507	Eric Ryder	102
508	Alan and Lou Bradford	105
520	Fiona Turner	108
528	Brent and Jacqui George - George Family	110
533	Renan Cataliotti	112
545	Bryan Tichborne	114
546	Nancy Tichborne	116
551	Kevin McSweeney	118
554	Bryan Haylock	120
556	Giles Foley	122
567	Avram Haque	124
570	Nicky Jenkins	127

<b>Submission Number</b>	<b>Submitter</b>	<b>Page No</b>
571	B H Jenkins	130
572	Sandra Jenkins	133
573	Chris Jenkins	136
574	L M Sales	139
589	Graham & Pat Eves	142
592	Brendan Glover	144
593	Georgiana Osborne	146
596	Michael Osborne	148
600	Stephanie Connell	150
606	Brian, Anne & Caitlin Eves - Eves household	152
607	Janet Eales	154
615	Graeme & Lorraine , Todd & Louisa, Craig & Sarah Raxworthy - Raxworthy Family Trust	156
617	Craig Church	158
624	Chris and Tracey Pottinger	160
625	Hugh Wilson	166
626	John and Rosie Roy	169
655	Gary Irvine	173
676	Tom McGlinchy	175
679	Craig & Julie Swan	177
715	Charlotte Osborne	179
721	Wayne Sceats	181
723	W H and J M Wilson	184
726	Ivan Burrowes	187
727	Todd Voice	190
729	Simon Tipping	193
731	Bernard Rennell	196
733	Joyce and Murray Walker	199
740	Stewart Barnett	203
758	Kirsten Williams-Hitch	205
759	Toni Williams	207
780	Mafalda Gehrig	209
811	Hollie Hollander	211
844	Dianne Carson	213
860	Maryline Suchley	215
871	Gary & Joanne Willis	217
874	Tom Brennan	219
888	John Baker	221
913	Silke Lassen	228
935	Benoit Navarron	231
943	Fran Anderson	234
945	Susan Bruce	237
948	Trevor L McConchie	241
952	Carolyn Turnbull	244
953	Julie Newton	247
954	Stephen Carswell	250
993	Frank Shaw	253
997	Diana Stronach	255

<b>Submission Number</b>	<b>Submitter</b>	<b>Page No</b>
998	Matthew Reid	257
1002	Suky Thompson	259
1007	Brent Martin	277
1009	Raywyn Stronach	284
1010	Stephen Eves	286
1011	Vicki Eves	288
1012	Eves Thomas	290
1013	Sue Church - Friends of Banks Peninsula	292
1016	Paddy Stronach	362
1019	Andy & Carol McLenaghan	364
1022	Margaret Wood	366
1023	Page Lawson	368
1028	Gill Bedford	373
1030	Trevor Bedford	375
1031	Barry Brunton	377
1032	Alan Turnbull	380
1033	Mary and Michael Browne	383
1034	Colin Hammond	387
1038	Derek Marr	390
1041	Simon Hadfield	392
1043	Marilyn Woodley	394
1046	Rosalind Smith	398
1048	Michael Norris	401
1049	Rhett Mason	404
1052	Richard Graham	407
1053	Ian Woodill	412
1054	Patricia Dart	415
1055	Hanne LeLievre and Paul LeLievre	419
1060	Sylvia McAslan	421
1061	Mary McNutt	423
1062	Ken Paulin	426
1063	Grant Robertson	430
1064	Alyso Grigg	433
1066	Jennifer Gillanders	441
1067	Jeremy Moore	444
1068	Barbara Surtees	447
1069	Murray, Sue, Will and Hanna Johns - Johns Family Trust	450
1071	W E L Oakley	452
1073	Suzanne Church	455
1094	Charilynn Wright	458
1096	Brent Schulz	462
1097	Chris Bray	464
1098	Peter and Elizabeth Haylock	467
1099	Averil Pathonnaud	470
1100	Kathrine Fraser	481
1101	H D and K Fraser	484
1102	Richard and Jill Simpson	487



<b>Submission Number</b>	<b>Submitter</b>	<b>Page No</b>
1103	Pat Lyons	490
1104	Neil and Rebecca Barnett	493
1105	Kevin Parthonnaud	496
1109	Andrew Dark	502
1110	Lennox Willett	504
1112	Catrina Brocherie, Gary Irvine - Early French Ancestry	506
1116	Pamela Fisher	510
1135	Linton Johnston	515
1149	Tom Patterson	522
1160	Julie-Ann & David Beattie	524
1165	Elizabeth Foley	533
1171	Christine Shearer	535
1199	James Fraser	537
1203	Rodney Innes	540
1204	Shireen May Helps	543
1205	Duncan & Christine McMillan	547
1208	Tricia Hewlett	549
1210	Graham David & Nicola Anne Shanks	551
1220	Rachelle Connolly	553
1221	Cynthia Muir	555
1223	Georgiana Osborne - Family members of Kingstons, Takamatua	557
1225	Mark Milligan	559
1226	Helen Wright	561
1228	John and Carol Masefield	564
1229	David and Sue Thurston	567
1230	Brendon Woods	571
1231	Reud Michael Baker - Akaroa-Banks Peninsula Anglican Parish	574
1232	Chris and Annette Moore	582
1233	Rob Evans	585
1234	Doug Archbold	588
1235	Jason Wright	591
1237	Lee Robinson - Robinsons Bay Ratepayers; and Residents Association	594
1242	Thelma Britt	600
1243	Stuart McLean	602
1244	Marie Haley	603
1251	Mike Harding - Akaroa Harbour Recreational Fishing Club (Inc)	606
1253	Victoria Osborne	608
1273	Karen Bennett	610
1305	Tony Muir	612
1307	Frank Saxton	614
1308	Helen Bartlett	616
1314	Graeme Curry	618
1315	Charles De Lambert	621

Submission Number	Submitter	Page No
1316	Yvonne Dalglish	624
1317	Andrew Dalglish	627
1318	Rod and Stacey Naish - Akaroa Ltd	631
1319	Gail Woods	634
1320	Robin Garth Tiffen (x2)	637
1321	Roger Beattie - R&N Beattie Partnership	642
1322	Kit Grigg	646
1323	Ken and Carol Reece	648
1324	Shane Ainsworth	651
1325	Adam and Sarah Pollard	654
1326	Philippa Lynch/Kara Edwards - Ngai Tahu parties (Onuku Runanga, Wairewa Runanga, Te Runanga o Koukourarata, the Akaroa Taiapure Management Committee and Te Runanga o Ngai Tahu)	656
1327	Matthew Kerr - Church Property Trustees	659
1328	K F and B L Avery	663
1329	Barry Hopping	666
1330	Angela Sheat - Canterbury District Health Board	669
1331	Lee and Marian Robinson	673
1332	Kevin Sibley	678
1333	Bronwyn Hayward and Andrew Ashby	681
1334	Jan Cook and David Brailsford	684
1335	Donn Armstrong	686
1336	Ronald Birch	690
1337	Mary Pauwels	693
1338	Kevin Simcock - Takamatua Ratepayers Association	696
1339	Gavin Shepherd	703
1342	Doig and Andrea Smith	704
1343	Tracy Foley	705
1344	Bill and Joan Adair	707
1346	Penny Carnaby	708
1347	Alice Riddell-Webster	710
1349	Richard & Wendy Doak	712
1352	Elizabeth Mars	714
1355	Stephen Horton	716
1357	Erin Neufeld	718
1359	Richard Troughton	720
1362	Shaun Huddleston	724
1364	Lorraine Owen	726
1366	Joshua Harris	728
1367	Kathleen Liberty	730
1369	Jeff Scandrett	732
1372	Jane, Gary and Loe Healey	734
1373	Helen Briggs	736

<b>Submission Number</b>	<b>Submitter</b>	<b>Page No</b>
1377	Pete Summers	738
1379	Virginia Simcock	740
1380	James and Barbara Bell	743
1381	David and Donna Kingan	746
1382	Natasha Coad	750
1383	Asif Hussain	752
1384	Murray Smith	753
1385	Jeremy Buchanan	755
1387	John Thomson	758
1388	Barbara, Michael, Edward and Nicholas Harrington - Harrington Family	759
1392	Brett Lea	765
1408	Anthony Waltenberg	768
1836	Ruby Milestone	772
1877	Denise Wren	775
1878	Mark Wren	778

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

### - Received via Have Your Say -

### *Submissions close 5pm, 30 April 2017*

Full Name*:	Fiona Nicol
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/04/2017 9:13
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	<p>I would prefer it was a combination at the Southern end of Akaroa (out past Onuku Marae) and the outfall when needed was discharged out towards the heads.</p> <p>I have been involved in the Akaroa wastewater issue for the last seven years in my role at Environment Canterbury and in my current role at the Christchurch City Council. There was always an option to go South, and I believe there still is.</p> <p>This would, I believe alleviate all the concerns with having wastewater discharged to land in the middle of residential housing and be better for the environment. I believe there are effects both from discharge of treated wastewater to land and water but these effects would be minimised by having it discharged away from Akaroa as far as possible.</p>
Option 1	Other <i>(please describe)</i>
Option 2	Other <i>(please describe)</i>
Option 3	Other <i>(please describe)</i>
Option 4	Other <i>(please describe)</i>
Option 5	Other <i>(please describe)</i>
Option 6	Other <i>(please describe)</i>
Other	As above

Full Name*:	Fiona Nicol	(145)
<i>(Submission Cont'd)</i>		
State reasons for ranking		
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	Drip irrigation. Less chance of contamination.	
Do you have location preference? Why:		
Should Council add aspirational projects to the Akaroa wastewater scheme?		
Any other comments?		

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -  
Submissions close 5pm, 30 April 2017**

Full Name*:	Steven Beaumont
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	6/04/2017 7:44
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 2	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 3	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 4	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 5	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -  
Submissions close 5pm, 30 April 2017**

Full Name*:	Christine Beaumont
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	6/04/2017 7:46
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 2	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 3	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 4	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 5	Please select
Option 6	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	



Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Mary Smillie
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	11/04/2017 10:39
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	Option 4 Akaroa people will benefit by having more water for gardens and trees and other areas where non potable water can be used e.g. washing cars and boats .  Akaroa dealing with its problem in its own area.
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	Akaroa people will benefit by having more water for gardens and trees and other areas where non potable water can be used e.g. washing cars and boats .  Akaroa dealing with its problem in its own area.

Full Name*:	Mary Smillie (Cont'd)	(295)
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	Drip irrigation which could mean better water for heritage park trees and other public areas.	
Do you have location preference? Why:	No	
Should Council add aspirational projects to the Akaroa wastewater scheme?	Yes - fire storage ponds and Takamatua Valley if it is wanted by Takamatua residents.	
Any other comments?	This on no account be put in the harbour.	

# Submission form continued

## Contact details

Contact name HILARY MANCOCK

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

Postcode

Phone number (day)

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Hilary Mancock Date 8. 4. 2017

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

Please note: Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

Submissions, with names but without contact details, are made available online once the Board, Committee or Council agenda goes live on the Council website.

If requested, Council is legally required to make all written and/or electronic submissions available to the public, including the name and contact details of the submitter, subject to the provisions of the Local Government Official Information and Meetings Act 1987.

If you believe there are compelling reasons why your contact details and/or submission should be kept confidential, please contact the Council's Engagement Manager on (03) 941 8999 or 0800 800 169 (Banks Peninsula residents).

### How to give us your feedback

You can use this submission form or you can provide your feedback in a number of ways:

- **Online:** You may enter your submission using the online form provided on the Council's website at [ccc.govt.nz/haveyoursay](http://ccc.govt.nz/haveyoursay)
- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Cheaper, not causing noise, scenic pollution

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 5 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 4 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Choosing Robinsons Bay or Takamatua will impinge on local residents and is not a good look for tourists. Harbour is already polluted. I sympathise with maori culture but there are Pakiaka and cost to consider

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation - quieter  
- trees should be native  
not conifers, unnatural  
to environment

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

No - prefer no ponds - smell, possible  
overflow

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Good idea to recycle water for better  
use but would entail separate water  
reticulation. Fire storage good idea

Do you have any other comments? (Please use additional paper if required):

Pompeii's Pullav could result in problems  
on metal road for locals and cattle trucks.  
Residents in Robinsons Bay and Takamātua  
bought properties for scenic and peaceful  
reasons and it is rather high handed  
to force this on them

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name GARY KNIGHT

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature \_\_\_\_\_ Date 03.04.17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes – I/We would like to be heard

No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

DRIP IRRIGATION NO SPRAY DRIFT

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

SITE # 10. CLOSE TO TREATMENT PLANT. GRAVITY FEED TO REUSE AREAS.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

YES. BENEFICIAL TO COMMUNITY PARKS & ASSETS.

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include you contact details over the page.



# Submission form

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Please make sure your full name and address is included with your submission.
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## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: LOW COST, LOW OPERATIONAL COST, LEAST IMPACT ON ENVIRONMENT & COMMUNITY

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 4 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
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- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking: SEE PREVIOUS ANSWERS.

Continued overleaf

# Submission form continued

## Contact details

Contact name EDWARD LUISETTI

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date 5.4.17

fold

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes – I/We would like to be heard

No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 3 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 4 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

A NEW OUTFALL PIPELINE IS THE MOST SENSIBLE OPTION. I AM A FISHERMAN AND I COLLECT FISH AND SHELLFISH FROM THE HARBOUR AND AM MORE THAN COMFORTABLE WITH THIS OPTION. *Continued overleaf*



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

DRIP IRRIGATION TO TREES.

1, AESTHETICS. EVEN THOUGH, AS THIS PAPER STATES, IRRIGATING PASTURE IS A NORMAL AGRICULTURAL ACTIVITY, IT WILL STILL BE IN EVERYONES MIND WHERE THE WATER HAS COME FROM AS THEY WATCH THE K LINE IRRIGATING AWAY.

2, SEE BELOW.

Do you have a preference for the location of reclaimed water storage pond(s)?

Please state your reasons why:

LOCATION 10. AS YOUR PAPER STATES, IT IS THE MOST SENSIBLE.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

NO. I FEEL THE NON-POTABLE REUSE IN AKAROA IS A GOOD OPTION BUT IS ASPIRATIONAL ENOUGH.

Do you have any other comments? (Please use additional paper if required):

2. I SUPPLY GRAIN TO DAIRY FARMERS WHO SUPPLY THEIR MILK TO FONTERRA. WHEN I SUPPLY THE GRAIN I MUST SIGN A DECLARATION WHICH STATES THAT NO HUMAN EFFLUENT HAS BEEN APPLIED TO THE PADDOCKS. DAIRY COWS MAY BE GRAZING THE PROPOSED IRRIGATED PASTURE OR BE FED THE SILAGE OR BALEAGE FROM THIS LAND. THERE IS A QUESTION MARK WHETHER FONTERRA WILL WANT THE MILK FROM THESE COWS. IT MAY ONLY BE A MATTER OF TIME BEFORE MEAT COMPANY'S MAKE THE SAME REQUEST FOR SHEEP AND BEEF FARMERS.

Thank you for taking the time to respond. Please include your contact details over the page.

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Lindy Drury
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	12/04/2017 9:49
Would you like to attend the hearings for this consultation?	
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 2	Other (please describe)
Option 3	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 4	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 5	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 6	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Other	Under water pipe out of the harbour to disperse treated waste in the ocean
State reasons for ranking	I feel this would be the safest for the environment now & in the future, especially as some drugs & hormones cannot be removed from the waste water
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	I would prefer drip irrigation as it is cheaper, easier to maintain. With spray irrigation it would be difficult to control where the water landed in the winds which are prevalent on the peninsular.

Full Name*:	Lindy Drury	(Submission No: 324)
Do you have location preference? Why:		
Should Council add aspirational projects to the Akaroa wastewater scheme?		
Any other comments?		

# Submission form continued

**Contact details**

Contact name Richard Butcher

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

FREEPOST Authority No.178



Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154



tape here

tape here



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Every sewage system in the world goes into the sea eventually

Continued overleaf



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**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

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**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

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**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?**

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**Do you have any other comments? (Please use additional paper if required):**

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Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Nigel Ferguson & Nicky Polson

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Nicky Polson Date 10/4/17  
Nicky Polson

### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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**Free**  >>> GOT A QUESTION? VISIT WWW.NZPOST.CO.NZ/HELP <<

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

tape here



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
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- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
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Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture  
 Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

**Please state your reasons why:** It is a cleaner option using the filtration effects of the soil

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 4 Option 1 – Irrigation of trees or pasture in Robinsons Bay  
 1 Option 2 – Irrigation of trees or pasture at Pompeys Pillar  
 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area  
 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option  
 3 Option 5 – Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

**Please state your reasons for this ranking:** Pompeys Pillar, while expensive, is the best option due to the remoteness. Non-potable use has merit during summer months. A new outfall to mid harbour using fully treated waste should present few issues

Continued overleaf

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation would reduce risk of drift.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

No preference

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Fire storage ponds would be a valuable asset and one that should be well supported

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include your contact details over the page.



## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Alan Jones
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/17/2017 1:57:03 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 3	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 4	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 5	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 6	Please select
Other	
State reasons for ranking	It seems crazy to dispose of waste water that can be used to irrigate gardens and lawns, when there is regularly a hosepipe restriction during the summer months.
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	Storage ponds would provide additional wildlife habitat, and possible amenity use.
Any other comments?	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

### - Received via Have Your Say -

### *Submissions close 5pm, 30 April 2017*

Full Name*:	stuart Ford
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/17/2017 2:57:56 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	there is a huge amount of public feeling against the disposal of waste water onto private land in the designated area. the pompeys pillar option is far too expensive for a waste water disposal system for such a small rate payer base. Remember Mangawhai where cost blow outs in the system caused the district council to become bankrupt. My advice is for the Council to get real over this issue and to dispose of it into the harbour, it is the only realistic affordable option.
Option 1	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 2	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	There are only two realistic options one, disposal into the harbour and, if the local iwi are prepared to pay the additional cost to pump it over to pomeys pillar then that would work .

<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>Either as long as there is no additional threat to the environment between one or the other.</p>
<p>Do you have location preference? Why:</p>	<p>Anywhere where it is acceptable from a visual perception point of view.</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>No we can't afford any aspirational projects. This colossal balls up on the Councils part is already costing us the rate payers far too much.</p>
<p>Any other comments?</p>	



# Submission form continued

## Contact details

Contact name RICHARD HALEY

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date 9-4-2017

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

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Yes - I/We would like to be heard

No - I/We do not want to be heard

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fold

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FREEPOST Authority No.178

**Christchurch**  
City Council 

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>>> GOT A QUESTION? VISIT **Free**  /HELP <<<

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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

# Submission form

haveyoursay

www.ccc.govt.nz/haveyoursay

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
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Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: Disposal To Harbour

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Continued overleaf



**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

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**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

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**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?**

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**Do you have any other comments? (Please use additional paper if required):**

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Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

### Contact details

Contact name Bob Nichol

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature] Date 11-4-17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

fold

FREEPOST Authority No.178



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Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

tape here



# Submission form

have your say

[www.ccc.govt.nz/haveyoursay](http://www.ccc.govt.nz/haveyoursay)

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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture  
 Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

Please state your reasons why: Irrigation of reclaimed water to trees or pasture environmentally friendly as is the combined use of non-potable reuse in Akaroa.

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 1 Option 1 – Irrigation of trees or pasture in Robinsons Bay  
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 4 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area  
 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option  
 5 Option 5 – Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

Please state your reasons for this ranking: Rankings have been compiled with beneficial use in mind together with overall cost factors.



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

I believe either option is viable, cost effective and of benefit in supplying water to a rural area.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

No, although keeping the number to basic required minimum would obviously contain costs.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Probably not at this stage as no doubt whatever option is chosen an appeal by some party is likely, any additions will simply add to the uproar!

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Pat McEvedy

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature] Date 11-4-17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

haveyoursay

www.ccc.govt.nz/haveyoursay

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
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- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Please make sure your full name and address is included with your submission.
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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons why:

This is a better option than Robinsons Bay or Takamātua, we believe that the land based option will cause to much disruption to those communities, exception being Pompeys Pillar

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 2 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 3 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons for this ranking:

These top 2 options are the least disruptive to peoples lives in the area

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation to trees, less chance of drift

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

No

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Don't know

Do you have any other comments? (Please use additional paper if required):

We received this document on the 10<sup>th</sup> April the day after the drop in session on the 9<sup>th</sup> April. I was annoyed by this but not surprised, when I realised that Tara King was Senior Engagement Advisor her reputation of consultation at Meridian precedes her.

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

438

## Contact details

Contact name MRS C. W. WEIR

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature] Date 12. 04. 17

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

- Yes - I/We would like to be heard
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Christchurch City Council  
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# Submission form

have your say

[www.ccc.govt.nz/haveyoursay](http://www.ccc.govt.nz/haveyoursay)

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

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- Option 4 – Non-potable re-use in Akaroa, in combination with another option
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Please make sure your full name and address is included with your submission.
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Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
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- Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Please see – additional comments' page 2.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

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Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

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Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

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Do you have any other comments? (Please use additional paper if required):

N.B. Information Brochure - clear, concise & informative - answers many questions - but not all!!  
I have indicated option 5<sup>th</sup> as my no. 1.  
But if this is not successful my absolute preference would be —  
1) A Marine Reserve established from present reserve at Flea Bay, i.e. Pohatu Marine Reserve continued around the coast to, at least, 'Goat Head' or 'Paua Bay'

P.T.O.

Thank you for taking the time to respond. Please include your contact details over the page.



2) Pompeys Pillar pipe line (From treatment station) entering the sea at Pompeys Pillar.

This would negate many of the ponds, irrigation etc. It is indicated that Pompeys Pillar pipeline is an expensive option, but surely with technology today a pipe line through the hills would be feasible.

NB

Marine Reserves are very much in the interest of the environment, sustainability, (tourist friendly?) and would 'perhaps' negate some of Nga Tahu's sensibilities.

3) A huge expanse of the Pacific Ocean to dispose of well treated waste water.

R.W. Weir

# Submission form continued

## Contact details

Contact name Kevin Kerr

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date 13.4.17.

### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

- Yes – I/We would like to be heard
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City Council 

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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

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tape here



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

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- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
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Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

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Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
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- Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

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Continued overleaf

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**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

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**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

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**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?**

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**Do you have any other comments? (Please use additional paper if required):**

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Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name Jane Cook

Organisation name (if representing)

Contact address

Postcode

Phone number (day)

Phone number (evening)

Email (if applicable)

Signature J Cook Date 14/04/2017

fold

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

- Yes - I/We would like to be heard
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Christchurch City Council  
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Christchurch 8154

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# Submission form

haveyoursay

[www.ccc.govt.nz/haveyoursay](http://www.ccc.govt.nz/haveyoursay)

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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** If the waste water is irrigated onto land it will end up in the harbour eventually anyway.

**Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).**

- 4 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons for this ranking:** I don't see either Robinsons Bay or Takamatua as an option. Pompeys Pillar doesn't have housing nearby, so a better option. All residents could use same waste water for gardens. I see above comment.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

I don't see either as an option but if it had to go that way (eg Pompeys Pillar) then drip irrigation would be best & probably would be less or no odor.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

They would need to be nearer the source of the outlet.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

All I can say here is NO!  
Takamatua Valley is not an option.  
Too many residents affected.

Do you have any other comments? (Please use additional paper if required):

~~There are~~ This option of Takamatua Valley being used as an option for spreading of waste water is causing ~~for~~ residents becoming sick through worry of this happening. Surely the scheme is not worth this happening.  
Think of something else please.

Thank you for taking the time to respond. Please include your contact details over the page.

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Alex Simpson
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/19/2017 9:47:15 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	I would like to see both options utilised. Water is a precious resource and if treated properly could be very beneficial resource for the township and surrounding areas. In summer there are often has water restrictions and near drought conditions and this water could help ease the pressure on our towns water supply. Depending on the volume of water treated some may need to be discharged in the mid harbour. I would like
Option 1	Other (please describe)
Option 2	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 3	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 4	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 5	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 6	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Other	I would like to see both options 4 & 5 utilised.
State reasons for ranking	Common sense.



<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>Drip irrigation. In high winds there would be less spray drift.</p>
<p>Do you have location preference? Why:</p>	<p>Current location. Is already established.</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>Yes, I would like to see an achievable goal put in place to start a more productive utilisation of treated waste water.</p>
<p>Any other comments?</p>	<p>This issue has arisen before with various councils throughout New Zealand and I believe that with the waste water treatment technology available in today's society that there is no reason why a happy compromise cannot be reached to meet environmental standards, society's expectations, Maori traditions and cost concerns.</p>

See attachment.

# MAORI CULTURAL CONSIDERATIONS IN DEVELOPING AND OPERATING WASTEWATER SYSTEMS – CASE HISTORY EXPERIENCES

*J. Bradley, MWH New Zealand Ltd*

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## ABSTRACT

This paper shares some of the author's extensive experience over 40 years working with many local authorities and local iwi and hapu groups from Bluff to Northland on a wide range of very small to many of the larger city wastewater development and consenting projects. The universal driver for many of the technological solutions and associated resource consent conditions is the abhorrence to Maori of direct discharge of human waste (domestic wastewater) to natural water almost regardless of the degree of treatment.

This experience highlights the importance of early participation of iwi and hapu in a partnership approach with the local authority and particularly its Mayor, Councilors and Senior Officers, consistent with the Treaty of Waitangi and the development of concepts and technology solutions that address cultural and spiritual matters. This encompasses the Part Two requirements of the Resource Management Act and the development and engineering of technical and non-technical solutions that can meet at least, in a compromised way to at least in part meet the aspirations of local iwi and hapu.

This paper addresses the following topics and illustrates a number of these with case histories:

- Appreciating the position of Maori/tangata whenua cultural background with respect to cultural and spiritual issues associated with human waste - domestic sewage.
- Education and appreciation of different wastewater processes including how different processes use natural processes but in an engineered way.
- Developing holistic and integrated approaches that integrate Maori Science with Western Science.
- Involvement of iwi and hapu groups in developing the project and supporting it through resource consents and other processes.
- The range of Papatuanuku – land contact arrangements now being used to spiritually cleanse treated human waste – domestic sewage before discharge to water.
- The development of resource consent conditions encompassing on-going involvement and associated off-set mitigation with iwi and hapu groups.
- The on-going monitoring of wastewater scheme operation and the capacity building that can take place through appropriate activities.

## KEYWORDS

**Wastewater, Maori, Cultural Considerations, Wastewater Case History, Hastings, Sludge, Biosolids, Resource Consents.**

# 1 INTRODUCTION

This paper addresses the subject matter from the point of view of local authority municipal wastewater schemes from the development, consultation, alternatives assessment, resource consenting as well as the design and operation. It is evident from the paper that much of the involvement relating to cultural considerations is undertaken with tangata whenua, iwi and hapu groups in the early phases of project development and particularly in the resource consenting processes.

## 2 STATUTORY DRIVERS

Three key pieces of legislation that set out principles to be followed in relation to Maori-tangata whenua considerations on human waste-domestic sewage and wastewater systems.

The first is the Environment Act 1986 which sets out the principles of the management of natural and physical resources, including intrinsic ecosystem and community values, the Treaty of Waitangi, the sustainability of natural and physical resources, and the needs to future generations.

The second is the Resource Management Act 1991 (RMA), a statute that controls all development in New Zealand. The purpose of RMA is “...to promote the sustainable management of natural and physical resources” where sustainable management means: “...managing the use, development and protection of natural and physical resources in a way, or at a rate, which enables people and communities to provide for their social, economic and cultural wellbeing and for their health and safety...”

The third significant piece of legislation is the Local Government Act 2002 (LGA) which identifies that purposes of local government in New Zealand is: “... to promote the social, economic, environmental, and cultural well-being of communities, in the present and for the future.” These are the four well beings.

In March 2012, the central government notified of their intentions to refocus the functions of Local Government and change the purpose as stated above to “cover good quality local infrastructure, public services and regulatory functions at the least possible cost”. This purpose has been included in the Bill which recently had its first reading in Parliament. The Local Government association has however unanimously resolved to retain the present local government act purpose of the four well beings.

Whilst the RMA is all about “sustainable management of natural and physical resources” and LGA is all about the “sustainable development of communities”, there is a high degree of alignment between these two pieces of legislation and interestingly.

As previously noted the RMA is an effects based and enabling legislation. Accordingly, the assessment of new and existing water and wastewater infrastructure on the natural and physical environment needs to focus on the various types of effects that are encompassed in the meaning of effect as set out in this legislation. This approach clearly puts the focus on the effects of the water / wastewater infrastructure and service on the natural and built environment, including people and communities, rather than on the technology and infrastructure itself.

Under the RMA, the “Meaning of “effect” also includes probability and potential impact.

*In this Act, unless the context otherwise requires, the term effect... includes –*

- (a) *Any positive or adverse effect; and*
  - (b) *Any temporary or permanent effect; and*
  - (c) *Any past, present, or future effect; and*
  - (d) *Any cumulative effect which arises over time or in combination with other effects –*
- Regardless of the scale, intensity, duration, or frequency of the effect, and also includes –*



- (e) *Any potential effect of high probability; and*
- (f) *Any potential effect of low probability which has a high potential impact”*

Part Two of the RMA requires “*in relation to managing the use, development, and protection of natural and physical resources, shall recognise and provide for the following matters of national importance:*

*(e) the relationship of Maori and their culture and traditions with their ancestral lands, water, sites, waahi tapu, and other taonga:”* The RMA also requires consideration of principles of the Treaty of Waitangi (Te Tiriti o Waitangi) being New Zealand’s founding document signed in 1840 between the British Crown and the Maori chiefs.

The special position afforded Maori under the RMA and other statutes has led to the development of many participatory partnership type approaches in development of resource consent processes and consent conditions and associated technology solutions. For example, in response to Maori abhorrence of direct discharge of treated human waste (domestic sewage) direct to water, no matter how well it is treated, has resulted in a number of land contact type processes where the treated domestic sewage contacts Papatuanuku (earth mother) in a rock channel, riparian strip or pond before discharge to surface or marine waters. The Hastings Wastewater project and some other of the case history projects featured below involve such a Papatuanuku rock channel facility.

There are also a number of Local Authority individual agreements, policies and procedures that are not, strictly speaking of a statutory basis but set out joint working and partnership procedures with tangata whenua and local iwi and hapu groups.

### **3 MAORI / TANGATA WHENUA CULTURAL BACKGROUND**

Working with tangata whenua requires some familiarity with how the contemporary Maori world operates. This is because while tangata whenua are likely to have most of the same project concerns and issues as the wider community, the legislative requirements also compel project proposers to:

- provide for the tangata whenua relationship with their ancestral lands, waters and traditions;
- have regard for the kaitiaki or guardianship obligations that tangata whenua have towards the environment;
- take into account the Treaty principles mentioned earlier.

Maori also place great store on personal relationships of long standing while face-to-face communication is the preferred method of dealing with each other. These personal relationships do not develop overnight and a substantial time investment in developing a relationship platform as a prelude to consultation is a normal requirement. A familiarity with the cultural protocols within which most meetings with tangata whenua conducted is strongly recommended.

Consultation with tangata whenua in the particular context of a wastewater project does however present some complex cultural issues that have their origins in Maori spirituality. For example in the traditional Maori world, places or activities related to human wastes were deemed to be tapu or spiritually dangerous. Anything deemed tapu was avoided and people understood that the consequences of tapu violation could range from misfortune to serious illness, even death because of the inherent spiritual danger. Assigning the religious concept of tapu to human wastes therefore protected people from potential health risks through the imposition of the strongest social control (punitive religion) possessed by traditional Maori society.

Some traditional Maori concepts have carried through into the contemporary world and tapu, albeit in many cases in a much modified form, is one of them. Wastewater and human waste in particular is

regarded by Maori as abhorrent and the tapu status that formerly applied to these matters retains its power.

Working with tangata whenua groups in addressing contemporary wastewater issues therefore means needing to understand that the traditional view of tapu is the starting point and furthermore that most Maori believe ANYTHING to do with human waste is therefore spiritually dangerous.

#### **4 COMMON CULTURAL PRINCIPLES**

To address this fundamental religious position some modifications of the principles discussed earlier are required. Tangata whenua consultative principles should include:

- Observance of cultural protocols
- Establishment of a reliable line of communication and clear identification of the principal representatives
- Clear introductions and roles identification of consultation personnel
- Projects well illustrated and described in lay terms suited to the attending audience
- Site visits as part of consultation are a must
- Consultation should take place in a venue where tangata whenua feel comfortable – that could often be a marae
- Providing opportunities for tangata whenua to propose or suggest alternative solutions where appropriate.

#### **5 MAORI PERSPECTIVE ON HUMAN WASTEWATER DISPOSAL OF TREATMENT**

For tangata whenua, the role of kaitiakitanga in the management of natural resources and the integration of human wastewater into natural resources is a matter of great significance and is taken very seriously. In developing community wastewater solutions, consenting decisions need to provide for the traditional relationship that tangata whenua have with their ancestral lands, waters, sacred places and other “taonga” or things important to them. The intent is to ensure cultural and heritage matters important to tangata whenua are identified and considered as part of any development proposal.

Tangata whenua retain a kaitiakitanga/guardianship role over natural resources and the legislation requires that this role is provided for. This is very important in dealing with such matters as water quality and the treatment and disposal of human waste – domestic sewage - wastewater.

In respect of kaitiakitanga/guardianship, tangata whenua have an environmental protection role that complements the statutory role of local authorities. This point is reinforced by a further requirement that in the administration of the RMA, all participants must have regard for the principles of the Treaty of Waitangi. While the prime responsibility for the proper observation of Treaty principles rests with Government, in development terms project proponents need to consider such things as the principle of partnership, generally interpreted as being met through consultation with tangata whenua; or the principle of mutual benefit where developers need to show what their projects can deliver in terms of beneficial environmental or cultural outcomes

In considering tangata whenua views, what is of fundamental importance is that there is a cultural abhorrence to the discharge of treated human wastewater to natural water almost regardless of the level

of treatment of the wastewater. There is also in some localities the abhorrence of transportation of sludge past Maori meeting houses, cemeteries and sacred Maori land as was the case in the Hastings project.

In considering wastewater management and disposal, the experience is that tangata whenua view the total situation in a holistic manner and do not just focus on the methods of treatment as requested in the brief. The linkage of nature and mankind as one, forms part of the fundamental basis from which this holistic approach is undertaken. In this respect, the requirement of the brief for the consultant to consider the wastewater treatment process should be put into a context of a total scheme in the following Stage 2 tasks.

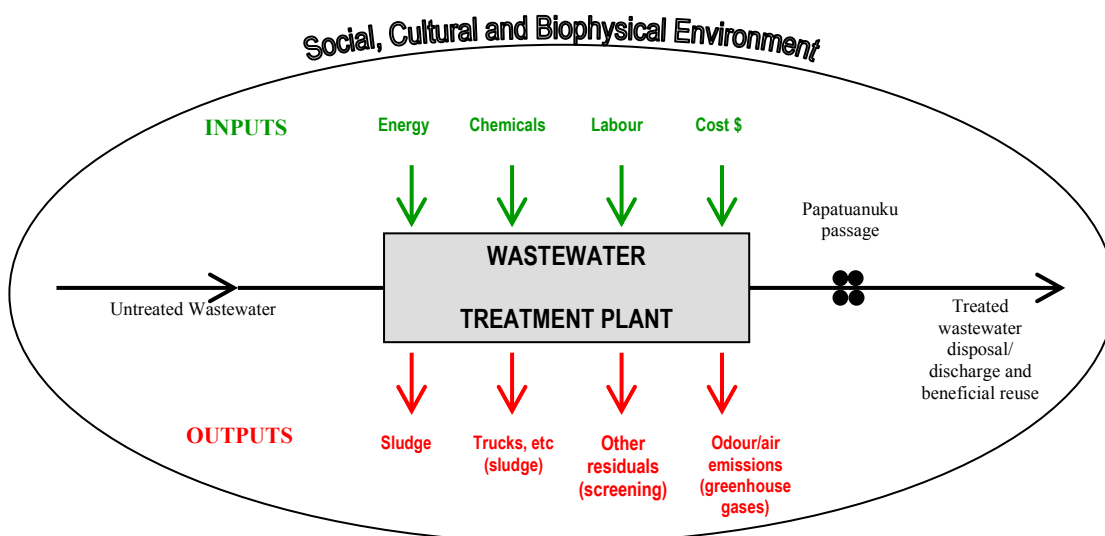
## 6 HOLISTIC AND INTEGRATED APPROACHES

The RMA requires that Local Authorities (Regional, City and District Councils) objectives, policies and methods “*achieve integrated management of the effects of natural and physical resources*” of the region or district. For water and wastewater infrastructure and services including important wastewater services, this requirement, to encompass integrated management approaches as it relates to natural and physical resources, necessitates wide ranging consideration of the many inputs to and outputs from the infrastructure and water service itself. Figures 1 and 2 discussing the Whangarei District Council’s Ruakaka Wastewater Resource Consents Project for which new resource consents have recently been issued, provides an example of how an integrated management approach has been implemented on this very recent and leading edge project.

Many new and recently upgraded wastewater management systems exhibit notable progress towards more sustainable practices. This project highlights the approach of integrated resource management encompassing the full range of sustainability criteria, along with the efficient use of resources and involvement of Maori.

Throughout the Ruakaka project the sustainability criteria were all considered in an integrated and holistic way as diagrammatically represented in Figure 1. All principal inputs and outputs are considered along with the resource efficiency and potential and adverse effects in a quadruple bottom line four well-beings social, cultural and biophysical environment along with the economic considerations. As outlined above, these approaches are in accordance with the legislation governing water and wastewater management, namely the RMA and LGA.

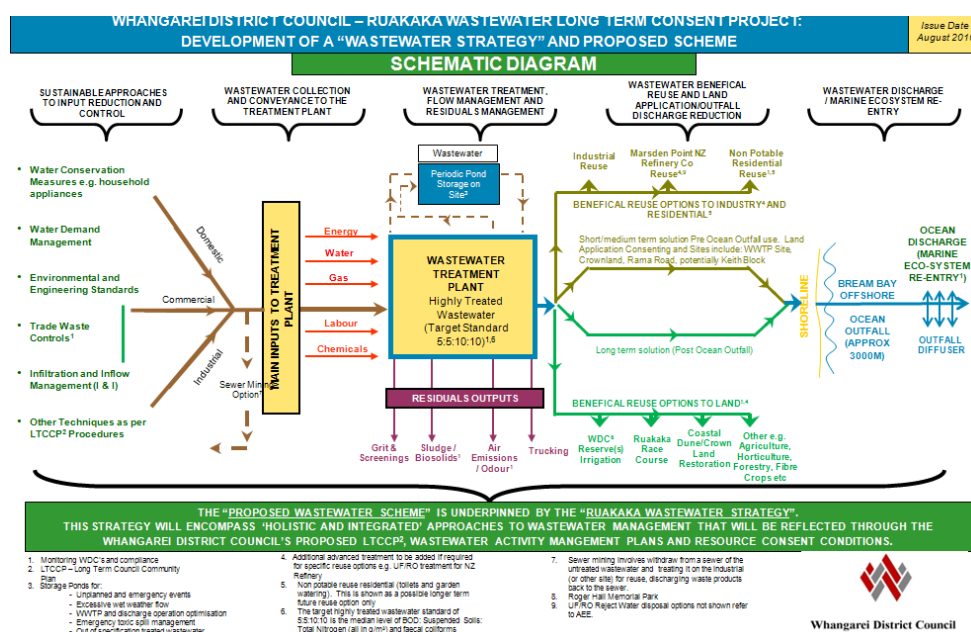
**Figure 1: The Generic Integrated and Holistic Approach to Wastewater Management**





The Ruakaka Wastewater Resource Consent Project is to allow for extensive growth of a small coastal township into a small city. Tangata whenua were closely involved in the development of the project including identification and evaluation of the many alternatives considered. The project involves a wide ranging suite of consents have recently been issued for durations up to 35 years, (the maximum duration permitted under the RMA) is a leading example of the development of such an integrated approach. This approach is illustrated in Figure 2 which shows the Wastewater Strategy associated with the proposed scheme. This Strategy encompasses the progressive change from land application to an ocean outfall discharge as the wastewater volumes increase with residential and business development over time. A key part of this strategy and associated integrated approach is the beneficial reuse of treated wastewater at New Zealand’s nearby Marsden Point Oil Refinery which was enthusiastically supported by tangata whenua. These approaches are appropriately depicted in Figure 2.

**Figure 2: Development of the Ruakaka ‘Wastewater Strategy’ and ‘Proposed Scheme’**



## 7 SEVEN CASE HISTORY PROJECTS

The following seven projects have been selected as high profile wastewater consenting projects that well represent the many and often complex parts of the development and resource consenting of new projects and/or the further ongoing consenting of existing wastewater schemes. The author has been closely involved in all projects except the Watercare Mangere Project in which he was involved in the consent review role.

After briefly discussing what the schemes and their development involved this section of the report brings together a number of common success themes in terms of project development and the resource consenting outputs. Section 11 then summarises some of the resource consent condition types.

### 7.1 THE INDIVIDUAL PROJECTS

#### Case History No. 1: Whangarei District Council’s (WDC) Ruakaka Wastewater Consent Project

This project for which the suite of nine resource consents have recently (May 2012) been issued provides for the wastewater treatment and reuse and disposal facilities for the large projected residential and business growth in the Marsden Point – Ruakaka area. These projections are for average wastewater volumes to increase from the current 600 cubic meters a day presently to around 16,000 cubic meters per day in 35 year’s time – the maximum duration a resource consent can be issued for under the RMA.

The scheme for which the nine consents have been granted is diagrammatically shown in Figure 2 above. It allows for land application in early years and a 3000 m long offshore ocean outfall once wastewater volumes exceed the consented land application volumes which it is anticipated to occur within 15 year's time. Reuse of treated wastewater at the nearby Marsden Point Oil Refinery is a key part of the proposed scheme and one strongly supported by tangata whenua.

Section 6 above uses this resource consent project to illustrate holistic and integrated approaches and how these were identified and worked through with local Maori. Tangata whenua of this area is the Patuharakeke Hapu who were closely involved with Whangarei District Council through the Patuharakeke Te Iwi Trust Board (PTB). PTB's close partnership involvement with WDC resulted in PTB being accepting of the nine resource consents and extensive set of conditions many of which WDC as applicant suggested in their consent application. These include a reasonable extensive set of conditions that provide for the ongoing involvement of PTB, the development of cultural monitoring provision of a monetary fund and preparation of protocol documents.

### **Case History No. 2: Gisborne District Council's (GDC) Main Wastewater Consent Project**

GDC's September 2005 resource consent applications were based on a Stage 1 primary treatment plant (or equivalent plant) and Stage 2 high rate activated sludge (secondary) treatment plant with UV disinfection (or equivalent plant) of the human (domestic) wastewater. The significant quantities of industrial wastewater are to be treated at the industrial premise. Both treated wastewater streams would then combine and continue to discharge out the offshore ocean outfall.

There had been a long history of dissatisfaction and concern by tangata whenua regarding the discharge of untreated (other than milliscreened) human wastewater direct into the marine water of Poverty Bay. Tangata whenua submitted in opposition to the September 2005 consents. The initial hearing for those consents was adjourned and a Wastewater Adjournment Review Committee (WARG) established to work with GDC as the applicant to find an agreed way forward. The WARG included a number of tangata whenua representatives who, along with other members of that group, promoted to Council a staged implementation of a BTF treatment process for the human wastewater with the discharge continuing out the ocean outfall.

The WARG also proposed resource consent conditions that accommodated tangata whenua's requirements. These requirements were subsequently enshrined into resource consents conditions that were proposed by GDC as applicant at the reconvened hearing and agreed to by the Commissioners in the consent issued.

A panel of four independent Commissioners heard the applications. The hearing commenced in April 2006 and subsequently adjourned so that (as recorded above) the parties who submitted against the consent and GDC as the applicant could work together and also consider an alternative BTF treatment process.

During that adjournment WARG members gave consideration to whether a BTF plant would be appropriate and better meet tangata whenua and other party's aspirations and requirements.

The hearing reconvened in March 2007. The WARG and its individual tangata whenua members presented evidence supporting the BFT process as this used natural biological processes. This support was coupled with further recommendations of appropriate resource consent conditions that would assist in meeting tangata whenua's overall objectives during the proposed 35 year duration of the consent.

During the consent process the treatment process and proposed treatment plant site on the Gisborne Airport was changed to a Stage 1 and Stage 2 Biological Trickling Filter (BTF System). Stage 2 included UV disinfection process. Subsequently the BTF plant was changed to an alternative location in an industrial area.

### **Case History No. 3: Hastings District Council's (HDC) Main Wastewater Consent Project**

This project and the associated treated wastewater discharge consent is seen as a paradigm shift in wastewater management in New Zealand that in a significant part was brought about by the collaboration and partnership involvement of tangata whenua with HDC elected representatives and Senior Officers. This has resulted from the proactive involvement of tangata whenua working with HDC in the partnership spirit of the Treaty of Waitangi. The spirit of this partnership is reflected in the resource consent issued and the associated acceptance of the Biological Trickling Filter (BTF) treatment process which provides biotransformation treatment of the human sewage before discharge out the 2.9km long ocean outfall into Hawkes Bay.

HDC originally applied to continue discharge of milliscreened wastewater out its long ocean outfall. Tangata whenua and other parties submitted against this proposal, notwithstanding that it was shown that the adverse effects on the marine environment outside the designated mixing zones were acceptably low. Following the adjournment of the resource consent hearing, HDC subsequently worked with tangata whenua and other parties to agree on a primary treatment plant and a suite of resource consent conditions that would include ongoing involvement of tangata whenua in the project and address their need to significantly (and then at a later date), totally remove kuparu (human waste).

Following granting of the resource consents, the treatment process was changed and re consented to include a BTF process. Installation of the plant along with a Papatuanuku rock passage is currently under construction. The treated human wastewater discharge will be combined with the treated industrial wastewater and continue to be discharged out the long ocean outfall.

There were a significant number of complexities encountered on this project. The main complexity associated with the project was meeting the challenging resource consent conditions imposed in a manner that balanced tangata whenua and wider Maori cultural needs and community needs, particularly in terms of affordability. This challenge required the identification of a Best Practicable Option (BPO) solution as defined in the Resource Management Act, namely a solution that takes account of environmental, technical and economic considerations within the local social and cultural environment.

As this Hastings specific situation to significantly remove human waste (kuparu) had not previously been encountered in New Zealand, in the way it was at Hastings, there was no ready solution available. This made for a very complex technical situation in terms of identifying a robust and affordable treatment solution.

Furthermore, the strength of feeling by tangata whenua regarding the importance of finding a culturally acceptable solution, together with the establishment of the Joint Committee with an express requirement for equal decision-making between HDC and tangata whenua, created additional emotional and governance process challenges. These unique constitutional arrangements had never previously been implemented in New Zealand and therefore required fresh thinking in consultation approaches to achieve success.

#### **Case History No. 4: Palmerston North City Council's (PNCC) Main Wastewater Consent Project**

The scheme included the upgrading of the secondary biological (aerated lagoon) treatment plant, the introduction of UV disinfection and the provision of a phosphorus removal system using chemical dosing and clarification. The phosphorus removal is required to be operated at times of low river flow when weed growth in the river can occur.

The scheme also included the following facilities through which the treated wastewater flowed before discharge into the river, a wetland pond, rock papatuanuku passages and diffuse rock papatuanuku river discharge system. These facilities were proposed and the concepts devised by the Marae Ohu Working Party that was formed during the project consultation and development.

Section 10 of this paper includes further information on this unique project and the extensive involvement of tangata whenua in developing it.



### **Case History No. 5: Watercare’s Mangere (Auckland) Main Wastewater Consent Project**

The scheme decided on and for which the suite of resource consents were applied for was based on extending and upgrading the Mangere Wastewater Treatment Plant and removing the oxidation ponds. The scheme includes an ebb tide shoreline discharge through a pipe structure.

Key treatment requirements for effluent quality as suggested in the resource consent application documentation included provision of a high degree of treatment and associated disinfection of the treated wastewater in order to protect shellfish resources in the vicinity of the discharge into the Manukau Harbour. In addition there is a high degree of treatment to remove the solids, organic matter and nitrogen levels in the wastewater.

### **Case History No. 6: Tauranga City Council’s (TCC) Main Wastewater Consent Project**

The scheme involves a high level of wastewater treatment at both the Chapel Street (main Tauranga City plant) and the Te Maunga (Mt Maunganui) plant. The Chapel Street contact stabilisation secondary treatment plant has UV disinfection. The Te Maunga activated sludge secondary treatment plant and the wetlands has recently been upgraded. UV disinfection will soon be added. The former Mt Maunganui oxidation ponds are now used to store treated wastewater and further reduce the microbiological count before discharge through the 900m long ocean outfall. The ponds and wetlands provide significant storage and buffering of high wet weather flows and are available for some emergency storage if need be.

The consents allow for irrigation of up to 8% of treated wastewater during dry periods when there are soil water deficiencies. Irrigation includes the Omanu golf course, some of TCC’s reserves and in the future the Tauranga Airport’s grass runways.

The Wastewater Strategy, prepared in part to support the consent application includes a number of measures such as the above mentioned irrigation, water conservation and waste minimisation. These measures are all part of more sustainable methods of managing the wastewater.

### **Case History No. 7: Dunedin City Council’s (DCC) Main Tahuna Wastewater Consent Project**

The scheme on which the consents applied for was a staged one:

- Firstly, construct an offshore 1100m ocean outfall near the St Kilda beach coupled with a papatuanuku rock passage at the Tahuna treatment plant. These works were completed in 2010.
- Secondly, by 2012 install a secondary treatment plant should that be proven necessary from the environmental monitoring in the marine environment once the outfall is in use. DCC subsequently decided to install a secondary treatment plant with UV disinfection regardless of the environmental monitoring. The construction of the secondary treatment plant is currently in progress.

## **7.2 COMMON SUCCESS THEMES IN PROJECT AND CONSENTING OUTPUTS**

The following summarises the common themes coming out of the seven case history projects. The common themes relate in the authors opinion to the successful outcomes of the consultation and tangata whenua – iwi and hapu participation in scheme concept determination and the resource consent processes including particularly the development of suggested resource consent conditions involving tangata whenua ongoing involvement and off set mitigation measures. They can therefore be considered as ‘success factors’.

The summary is prepared under five headings.

### **Project Investigations and Options**

All seven projects included an extensive assessment of a wide range of options (alternatives) before the scheme selected as the proposed one was determined.

As part of the Assessment of Alternatives (required under RMA), all projects included consideration of full land disposal systems that were based on total disposal of all treated wastewater onto land. In all cases, full land disposal 365 days a year was found to be unsustainable over the long term and was not the best practicable option. Many other schemes, particularly the larger community and city schemes have arrived at similar solutions.

The Assessment of Alternatives also included approaches where treated wastewater has land contact through facilities such as wetlands, papatuanuku rock passages etc before discharge into the receiving water. Namely, the Manawatu River in the Palmerston North case and the marine environment in the other five cases.

In all projects the investigations also assessed more sustainable methods of wastewater management, including water conservation and trade waste management procedures.

In all projects the then determined along with (beneficial) reuse of treated wastewater 'Proposed Scheme' for which consents were sought included provision for beneficial reuse of a proportion of the treated wastewater, biosolids and other treatment plant by products. These provisions are all part of a Wastewater Strategy developed to achieve a more sustainable approach to wastewater management within the terms and conditions of the consents sought and granted.

### **Wastewater Treatment and Disposal/Discharge**

In six of the seven cases a high level of wastewater treatment is required to meet the granted resource consent conditions. All six cases include secondary wastewater treatment and UV disinfection except for Hastings which does not include UV disinfection. The Hastings consent is based on 'significant removal' of kupa (human waste) and this is achieved by biotransformation using a biological trickling filter (BTF).

The level of treatment that has been set is at least consistent with protecting and in some cases enhancing the receiving water quality and ecology with treated wastewater parameters.

In four of the seven cases the treated wastewater contacts land through wetlands/ponds and/or papatuanuku passage before discharge. Watercare's Mangere WWTP and Gisborne's WWTP the treated wastewater does not contact land. This was acceptable to tangata whenua as in the Mangere case a very high level of treatment was the key consideration, along with the best engineering solution for the discharge. In the Gisborne case the biotransformation of human waste to non human material using the BTF was considered appropriate by itself, when coupled with the UV disinfection.

### **Tangata Whenua Participation and Collaboration**

In all seven cases there was a high level of participation between tangata whenua and Council personnel, including the Mayor, Councilors and Officers. In the Hastings and Gisborne cases this level of participation was not initially in place and accordingly the history and early parts of those projects were fraught with difficulties in the relationship between the Council and tangata whenua. Once participation in the partnership spirit of the Treaty was achieved, considerable progress was made in developing solutions that could be accepted by both tangata whenua and the Council.

The participation in all cases involved Councilors and tangata whenua elders and iwi and hapu group leaders, and was undertaken in a partnership approach endeavoring to encompass the spirit of Te Tiriti o Waitangi.

In each case the participation was through a journey of knowledge sharing. In some cases the parties jointly went on hikoi to other parts of New Zealand to learn about different approaches and other wastewater plants how tangata whenua had been involved.

Tangata whenua were closely involved in the concepts and development of the components of the wastewater schemes that related to (albeit in some cases as a compromise) meeting their spiritual and cultural aspirations.

## **Resource Consent Conditions**

In all seven cases the resource consent conditions set up a (statutory) mechanism whereby tangata whenua remain involved in liaison and monitoring of the wastewater scheme throughout the duration of the resource consents. In most cases these specific conditions were developed between the applicant local authority and tangata whenua, iwi and hapu and submitted as suggested conditions.

Three of the cases have offset or enhancement conditions that put in place activities that will enhance tangata whenua's understanding of the environment and the effects of the wastewater scheme and/or enhance the natural environment itself. These conditions include research grants, capacity building, monitoring, riparian strip enhancement etc.

All seven cases require that during the term of consent, further investigations relating to the beneficial reuse of treated wastewater and/or the byproducts, as well as periodically reviewing wastewater treatment, disposal and reuse techniques are undertaken.

## **Ongoing Involvement of Tangata Whenua**

All seven cases include resource consent conditions that make provision for tangata whenua to be involved in the wastewater scheme operation performance and ongoing development of the scheme and in many cases periodic technical and environmental reviews relating to the scheme.

The conditions set out the type of involvement, the frequency of involvement, and in some cases detailed terms of reference about what that involvement shall address. Section 11 below traverses the context of a number of these conditions.

## **8 PAPTUANUKU – LAND CONTACT ARRANGEMENTS**

There are a significant number of Local Authority domestic sewage (municipal wastewater) treatment and disposal schemes that include often as a final stage arrangements where the treated human wastewater contacts land – Papatuanuku (earth mother) before discharge to natural water be it coastal waters or fresh waters. The rationale for many, if not all these facilities is to provide a spiritual cleansing of the otherwise treated human wastewater by the contact removed back with Papatuanuku (land). In a number of cases tangata whenua and iwi and hapu have appreciated that the arrangements used do not necessarily improve the measurable quality of the treated wastewater, and in some cases such as wetlands and ponds can deteriorate the quality by algae growth and bird deposits for example. There are now cases where tangata whenua have decided not to require such land contact arrangements but to instead adopt an enhanced standard of treatment. This occurred for example in the Hamilton City Wastewater case where a “best for river” approach was adopted rather than a land contact Terra 21 wetland..

Below is a list of a number of Papatuanuku – land contact arrangements – that are, it is understood by the author substantially if not totally for the spiritual cleansing through land contact of the otherwise treated human waste – domestic sewage.

- Cultural/wildlife wetlands –Tauranga, Whangarei, Cambridge
- Wetland pond – Palmerston North
- Rock (land) Papatuanuku passage – Hastings, Te Awamutu, Taumaranui
- Riparian strips – Te Puke
- Overland flow – Oamaru
- Gravel beds – Ngaruawahia, Huntly, Otorohanga
- Rapid Infiltration Beds – Motueka, Takaka, Cambridge



## 9 OTHER CASE HISTORY – BIOSOLIDS AND CONVEYANCE

There are also a number of other case histories in New Zealand where Maori cultural considerations have involved key aspects of the wastewater management other than that associated with wastewater and disposal. Three examples of these are: -

### Wellington City Council - Biosolids

The sludge treatment systems for wastewater from the main Mōa Point and Kaori (western) wastewater treatment plant previously involved production of significant quantities of compost biosolids. Maori concerns about the use of the compost biosolids on land (turf culture, parks, reserves, household gardens, agriculture, revolved around the fact that the waste stream contained blood products (from hospitals, dentist surgeries and similar) and possibly body parts (from morgues, funeral parlours and hospitals). Even though these “materials” might be present in minute, undetectable quantities, nevertheless it was a cultural concern taken very seriously. The matter was largely resolved when it was demonstrated that the “materials” on entry into the waste stream were very quickly broken down so that they were unrecognisable. The compost itself was appropriately labelled warning users of its content. This latter action was to meet Maori concerns that the compost would be used for food production and in Maori traditional thought could mean that Maori, in consuming those food products, they might also be consuming “minute portions of family members.” The solutions were the result of a major consultation effort and the pragmatic acceptance that the traditional Maori way of doing things – arising as they have from a small village hunter-gatherer society - was insufficient to deal with the volumes of waste produced by a modern urban society. Cultural evolution was the only sensible response.

### Hastings Project: Sludge Transportation Considerations

Section 6 above and Section 10 below discuss the Hastings paradigm shift “no sludge” domestic wastewater treatment system. Important considerations by tangata whenua in the development of this “no sludge” natural treatment Biological Trucking Filter (BTF) solution was the question of sludge transport and disposal or reuse if the earlier proposed natural settling (primary treatment) solution was proceeded with. The following newspaper article headline highlights this matter by commenting on the abhorrence of trucking sludge (going to landfill) past houses and waahi-tapu sites.

### Figure 3: Hastings Wastewater Newspaper Article



### Watercare Mangere Wastewater Treatment Plant to the Conveyance

In New Zealand’s largest city, Auckland, the growth of the city required the construction of a new main trunk sewer line to bring wastewater for treatment to a central treatment plant. The proposed route of the pipeline passed over the remnants of an extensive historic gardening village complex known as “the Stonefields”, the name being derived from the use of local volcanic stone cleared from the gardens and used for building walls to protect crops. Local Maori objected to the desecration of the site because of

construction activities and the fact that raw sewage would also be passing over the site. Some of the objectors felt so strongly about the issue that they occupied the area. Their objections were driven by what they perceived as a lack of respect for this ancestral site that through other developments in the area – including quarrying – had already been severely diminished and in their view, damaged. Resolution came through extensive consultation, a sympathetic design that effectively disguised the above ground pipeline and the creation of a reserve that served to protect the remnant Stonefields. The fact that the pipeline contained raw sewage was dealt with by an appropriate traditional ceremony.

## 10 THE HASTINGS PROJECT AND TANGATA WHENUA VALUES

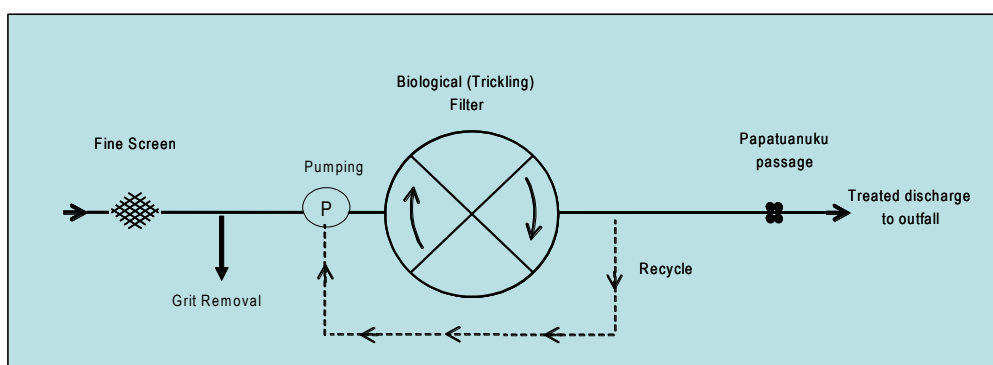
Further to the case history discussion of this project in Section 7 above the following text gives more information on this project which is a unique paradigm shift for wastewater planning, treatment and discharge in New Zealand and probably internationally. It encompasses established biological treatment processes without the separate generation, treatment and subsequent disposal of either primary or secondary (biomass) sludge. Hastings District Council’s Mr Bob McWilliams presented to this forum in 2011 - The Journey to the Biological Trickling Filters. Refer references to this paper.

The unique solution was developed by the Hastings District Council (HDC), local Maori and consultants MWH NZ Ltd to meet the cultural and spiritual aspirations of local Maori (New Zealand’s indigenous people) in addition to providing treatment of human wastewater. The treatment system provides for a domestic population of 53,000 using a lowly organically loaded randomly packed media Biological Trickling Filter and a Papatuanuku (earth mother) rock passage without primary- or secondary clarification. Treated wastewater is discharged into the Pacific Ocean via a 2,750m long offshore outfall. The treatment process, which comprises fine screening, followed by two Biological Trickling Filters each 37m diameter with a packed media depth of 10m and following this contact with selected and blessed stones in the Papatuanuku (rock) passage.

As outlined previously, these cultural and spiritual concerns related principally to the key matter that, simply put, Maori are deeply offended and disturbed by the discharge of kupaaru, particularly to natural waters (sea or rivers) and also under certain circumstances to land (although Hawke’s Bay Maori originally expressed a preference for disposal to land rather than the sea).

The treatment process, as shown schematically below, not only provides significant treatment of the human waste (kupaaru), but also through biological transformation and spiritual cleansing produces a non-human (treated) wastewater that local Maori can accept as suitable for return to the natural environment without having to be disposed onto land.

**Figure 4: Hastings Domestic Wastewater Treatment Plant Schematic**



Financially, the Biological Trickling Filter is “win-win” all the way. In addition to capital cost savings over other secondary / Biological Treatment Options, it is saving the community well over one million New Zealand dollars a year (mainly due to the elimination of an expensive sludge (energy intensive) drying and disposal process that was necessary for an earlier considered primary treatment option).

The operating results from the first 15 months of full scale plant operation and compare most favorably to the Pilot and the European reference Plants including the Larraga Spain plant that was rearranged to trial the then proposed Hastings treatment arrangement used in this project. The desire was clearly however, to achieve complete removal of kuparu before discharge to the sea. From a pragmatic viewpoint this was seen as a longer term (ultimate) goal. The project has also highlighted how the accord and partnership between the Hastings District Council and local Maori has worked most successfully.

Photograph 1 below is a story board recently prepared for the HDC open days which are part of the consultation associated with HDC's new resource consent process. This representation depicts tangata whenua's Maori dimension of the integrated form of the treatment process.

**Photograph 1: Hastings Wastewater Treatment Plant**



The rectangular channel in the center of the plant is the Papatuanuku rock channel and the two large dome roofed tanks are the Biological Trickling Filters (BTF's).

Figure 6: Hastings 2012 Wastewater Consent Consultation Project – Open Day Story Board

## HERETAUNGA TANGATA WHENUA VALUES

*“Heretunga Hauku nui, Heretaunga Ararau, Heretaunga Haaro o te Kāhu, Heretaunga Takoto noa!  
 Heretaunga of the life giving dew, of the hundred pathways, the vision of the far-sighted hawk, left to  
 us the humble servants”*

The current wastewater treatment process combines:

- innovative engineering infrastructure,
- applied science, and
- the customary practices and values of mana whenua.

The diagram below attempts to show the Maori dimension being expressed in an integrated form, against a backdrop of the current wastewater system.

**1 Tane Mahuta - The deity of the flora and fauna.**  
 Provides the bugs in the biomass in the biological trickling filter. Through the biomass, the kuparu is transformed by the removal of the *mauri* (life essence) of the human wastes.

**2 Papatuanuku - The earth element in the creation; the female element.**  
 The earth mother, receives the transformed waste and the contact with papatuanuku proceeds to re-establish the *mauri* (life essence) to the transformed waste.

**3 Tangaroa- The male deity of the oceans.**  
 Receives the transformed waste (after passage through Papatuanuku), and in his vastness, tidal movements and currents he makes himself clean. Tangaroa has the natural capacity to cleanse himself.

**4 Tamanui te Ra and Tawhirimatea - The deity of the heavens and the deity of the winds**  
 By agitating the surface of the ocean (Tangaroa), and through the very synthesis of air and water, the cleansing process is completed with any odours being dissipated aerobically

- the discharge of wastewater from the WWTP into the sea, including specific cultural values that may be affected.
- To identify the potential effects (both favourable and adverse) on cultural values of the proposed activity.
- To identify appropriate measures to avoid, remedy or mitigate, where practical, any adverse effects of the proposed activity on cultural values.

Do you have any thoughts on this view?

**WASTEWATER  
RESOURCE CONSENT**

**HASTINGS**  
DISTRICT COUNCIL



## 11 RESOURCE CONSENT CONDITIONS

Section 7 and elsewhere in this paper highlights the appropriateness and case history now available of obtaining resource consents with conditions that, at least in part, assist Maori – tangata whenua in having their concerns including the fundamental one of abhorrence of discharge of human waste to water addressed.

In each of the seven case histories referred to in this paper, and in many other consents, such consent conditions cover a wide range of approaches. There are however a number of common themes with many of these conditions.

The following gives a grouping and some examples of these common themes, particularly as they relate to the seven case history projects discussed in Section 7 above.

- **Formation of Tangata Whenua and Iwi Wastewater Liaison Groups**

All seven projects and many others in New Zealand have consents that require establishment of ongoing liaison groups with terms of reference often being set out.

In some cases the group is formed as a wider Wastewater Management Group or Committee, of which tangata whenua representatives make up a key part.

The Hastings condition is of a special nature as is highlighted above because it requires a “Hastings District Council Tangata Whenua Joint Wastewater Committee” to be set up under the provisions of Section 107 of the Local Government Act as a full committee of Council itself.

- **The Establishment of Research Activities**

A number of consents include either monetary funds or processes to establish research activities that have a connection with the receiving environment to which the treated wastewater is discharged or for technical and trialing developments. Examples of these include:

- The “Turanganui A Kiwa Water Quality Enhancement Project” in the Gisborne consents
- The “Fisheries Enhancement Research and Grants” which include for native fish in the Palmerston North consents.
- The “Environmental Mitigation and Enhancement Fund” on the Tauranga consent.
- The monetary fund to assist PTB develop a cultural monitoring programme in the Whangarei District Council’s Ruakaka consent.

- **Environmental Enhancement by way of Offset Mitigation**

A number of consents have offset mitigation requiring the consent holder to undertake, or support in one way or another certain activities not directly associated with the physical aspects of the wastewater scheme. For example:

- The Palmerston North consent in terms of riparian stream enhancement.
- The Ruakaka consents in terms of establishment of memorial pou / kohatu / plaques to commemorate the significance of Te Poupouwhenua to tangata whenua.
- The involvement of tangata whenua, iwi and hapu groups in wastewater monitoring and in the ongoing periodic reviews of technology and environmental matters as are set out in the resource consent conditions.

Many consents have these arrangements which are often included in the functions of the Liaison Groups as are referred to above.

- **Preparation of Protocols and related to the construction and ongoing operation of the wastewater scheme.**

For example:

- The Dunedin consent includes development of a protocol with Te Runanga O Otakou.
- The Ruakaka consent includes for the development of a range of protocol documents including tikanga protocols, archaeological site identification and cultural training for contractors.

## **12 REFLECTIONS AND CONCLUSIONS**

Reflecting on the projects included in this paper and the journey we have been on in New Zealand to better understand Maori cultural considerations as they relate to human waste – domestic wastewater, highlights to the author that considerable progress has been made in many situations. Almost without exception where good progress has been made, that progress has been underpinned by early involvement between a Council and tangata whenua and with such involvement working in a partnership way in the spirit of the Treaty of Waitangi. When such procedures have not occurred, conflicts and drawn out and costly resource consent processes have often resulted.

In many cases development of the wastewater treatment and disposal schemes have been based on integrated and holistic approaches and incorporate land contact and other features specifically implemented for Maori cultural and spiritual reasons.

Resource consent processes including the applicant suggesting specific conditions that are developed with tangata whenua and iwi and hapu groups are now providing sound, and in some cases notable examples of how Maori cultural and spiritual considerations can be successfully taken account of and allowed for in the development and ongoing operation of wastewater systems.

### **ACKNOWLEDGEMENTS**

The author gratefully acknowledges the valued input into the case history projects referenced from tangata whenua, iwi and hapu groups, local authority persons and other key stakeholders. Hastings District Council Personnel and the tangata whenua representatives associated with that project are specifically acknowledged. This author also acknowledges the input of Buddy Mikaere of Buddy Mikaere Associates for allowing use of Sections 3 and 4 of this paper from reference 7 below and information on the Watercare Stonefields case history.

### **REFERENCES**

- Paper to the NZWWA Conference in 2001 by Jim Bradley of MWH and P.J. Walker of Palmerston North City Council Titled “*Palmerston North Wastewater Landing Back in the River*”.
- Article in NZ Planning Quarterly in June 2006 “*How a Historic and Probably Unique Accord Works*” by HDC’s legal advisor Mark von Dadelszen.
- Paper and presentation to the NZWWA Conference in 2006 by Ngahiwi Tomoana, (Tangata Whenua member of the Joint Committee), Bob McWilliams and David Fraser (HDC) and Pete Loughran and Jim Bradley (MWH) titled “*Hastings Wastewater – a Remarkable ‘Win Win’ Solution by Challenging Conventional Practice*”.
- Paper and plenary address to the International Water Association Conference in Monckton Canada in 2007 by Jim Bradley (MWH) on the project titled “*Four Wellbeings Social, Economic, Environmental and Cultural: A sustainable development approach to Biosolids Management*”

- Paper to the Ingenium Conference in Napier in 2007 by MWH's Jim Bradley and HDC's David Fraser Titled "*Cultural Dreams Become a Technical Reality with Innovative Wastewater Treatment*"
- Keynote paper to the International Water Association 9<sup>th</sup> Leading-Edge Conference on Water and Wastewater Technology in Brisbane in 2012 by MWH's Jim Bradley Titled "*How to create Successful Technology Solutions that Address All Sustainability Criteria – the New Zealand Journey*".
- Presentation on Hastings District Council Wastewater Facility – "*The Journey to Biological Trickling Filters*" – Bob McWilliams – Hastings District Council – Presentation NZ Trade and Industrial Waste Forum 2011.
- Paper to the Ingenium Conference in Rotorua in 2012 by Buddy Mikaere of Buddy Mikaere Associates and MWH's Jim Bradley Titled "*Consultation and Collaborative Approaches with Tangata Whenua and Other stakeholders to Wastewater Scheme Consenting*".
- Paper to the Water NZ Annual Conference in 2012 by Hasting District Council representatives and MWH's Jim Bradley Titled "*Hastings Wastewater an Update of this Remarkable 'Win-Win' No Sludge Wastewater Treatment Solution that Challenged Conventional Practice*".

Name: Pippa and Ged Foley

Address:

Phone:

Email:

We wish to submit the following as concerns the Akaroa Waste Water Scheme.

We are in favour of Option 4: Non Potable reuse in Akaroa. Water is a resource that shouldn't be wasted.

However this is not a standalone option in the short term. Of the 4 options of waste water disposal to be given in conjunction with option 4, we consider disposal to trees in Robinsons Bay as the most practical. However we wish Council to note the following:

1. Pond site 2 takes up a large area of flat in Robinsons Bay. We are totally against using this site because
  - a) The site is prone to tidal flooding which must only get worse with global warming.
  - b) There is very little flat land left in the Inner Akaroa Harbour. It would be very short sighted of Council to use this flat land as a waste water pond
  - c) The site is over looked by near neighbours who have told us anything on that flat would be an eyesore for them.
  - d) The site is next to a Banks Peninsula Conservation Trust Covenanted area.
2. The stream running through the flat has been certified top quality water (EOS ecology survey of Streams of Banks Peninsula 28<sup>th</sup> Feb 2014) and to that end my family has fenced off the lower area from stock (and hopefully white baiters) to provide habitat for whitebait breeding. This could be compromised by waste water infiltration.
3. We are against Pond Site 3. There is a historic well at this location and it is possibly the best building site in Robinsons Bay.
4. It is imperative that existing land use of adjacent properties to any waste water operations be allowed to continue.

Picture looking down historic well



P.M. Foley

G.J. Foley

We wish to be heard in support of this submission.

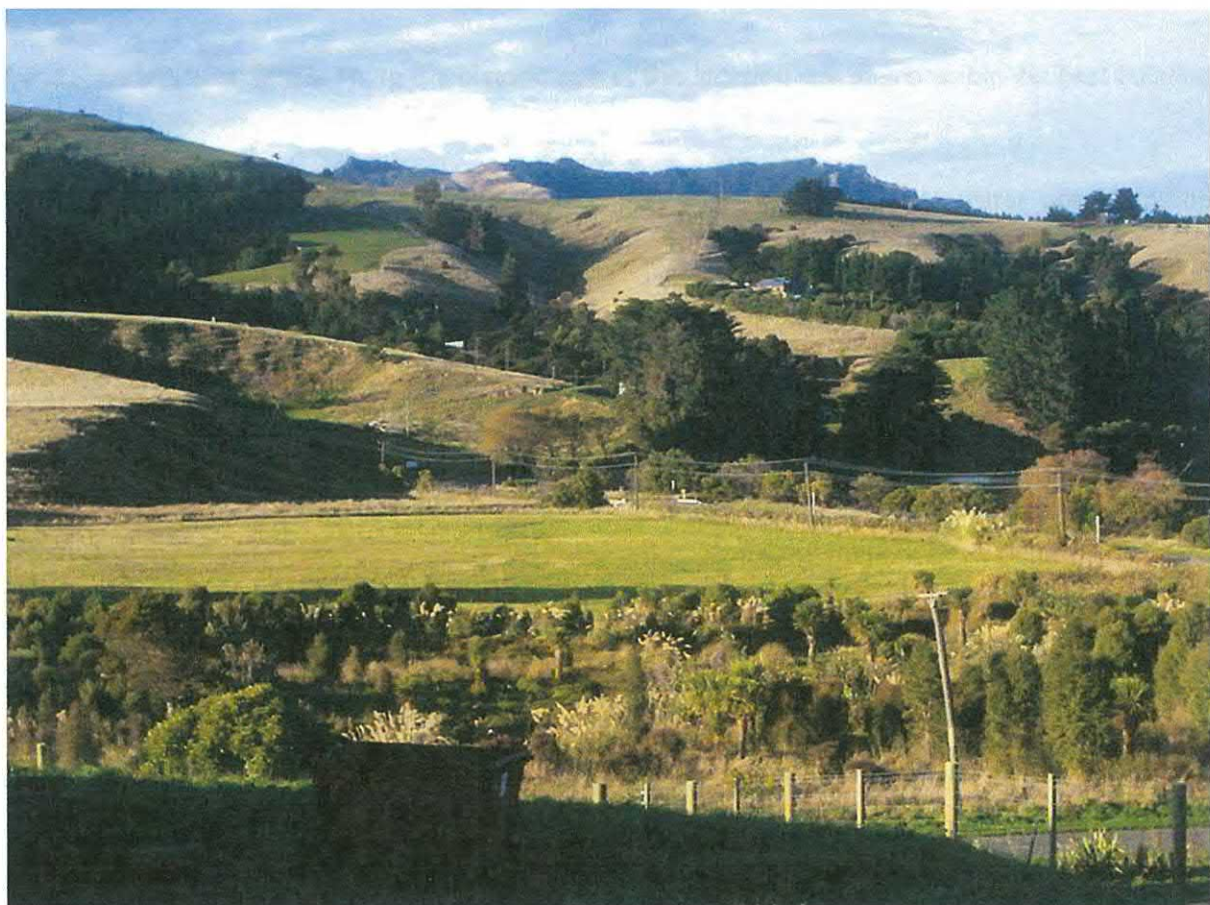
P.T.O .



Fenced off stream in Robinsons Bay for whitebait breeding



Pond Site 2 : Conservation area in front: main road on right : fenced whitebait breeding area rear





# Submission form continued

## Contact details

Contact name Robyn Grigg

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

Postcode

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Robyn Grigg Date 18.4.17.

fold

fold

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes – I/We would like to be heard

No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

fold

FREEPOST Authority No.178

**Christchurch**  
City Council 

**Free** 



Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154



tape here

tape here

# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

**Please note:** Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

Submissions, with names but without contact details, are made available online once the Board, Committee or Council agenda goes live on the Council website.

If requested, Council is legally required to make all written and/or electronic submissions available to the public, including the name and contact details of the submitter, subject to the provisions of the Local Government Official Information and Meetings Act 1987.

If you believe there are compelling reasons why your contact details and/or submission should be kept confidential, please contact the Council's Engagement Manager on (03) 941 8999 or 0800 800 169 (Banks Peninsula residents).

### How to give us your feedback

You can use this submission form or you can provide your feedback in a number of ways:

- **Online:** You may enter your submission using the online form provided on the Council's website at [ccc.govt.nz/haveyoursay](http://ccc.govt.nz/haveyoursay)
- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** The topography & settlement patterns make the disposal of reclaimed water by any of the proposed irrigation methods impractical & unacceptable.

**Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).**

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- ? Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons for this ranking:** See above. Option 4 has some merit, but the cost is likely to outweigh benefits.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Please refer to earlier answer.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

—

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Do you have any other comments? (Please use additional paper if required):

reclaimed  
IF the wastewater is of a standard that can be used in the town for residential gardens & lawns, it must be acceptable for disposal via a new outfall pipeline to mid harbour.

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name RC & SR Lovett

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature SR Lovett Date 17/4/2017

fold

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## Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

- Yes – I/We would like to be heard
- No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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 Christchurch City Council  
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 Christchurch Mail Centre  
 Christchurch 8154

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Please make sure your full name and address is included with your submission.
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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** Combination of re-use, + trees in around Akaroa - fire ponds

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 5 Option 1 – Irrigation of trees ~~or pasture~~ in Robinsons Bay
- 2 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 4 Option 3 – Irrigation of trees ~~or pasture~~ in Takamātua Valley, in combination with another area
- 1 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 3 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- 1 Other (please describe)

**Please state your reasons for this ranking:** No irrigation to pasture in inner harbour - too risky in terms of water logging, noise of harvesting etc. Akaroa's water for Akaroa's use. Maximise benefit of already costly scheme to get water to Akaroa. *(continued overleaf)*



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Definitely not spray to anything unless at Pompeys Pillar & only with management of buffers, water quality to mitigate risks to farmers & wider community.

Do you have a preference for the location of reclaimed water storage pond(s)?

Please state your reasons why:

As close to area of waste creation as possible to encourage responsible use & re-use, minimise reticulation costs, mitigate water shortages, minimise risk of system failure by using long pipes & many pumps. <sup>re-use</sup>

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Yes - fire storage, buffer for summer garden watering, public amenity irrigation (rec ground) boat washing etc. Most importantly fix stormwater incursion into sewers & fix cracked sewers that allow groundwater / stormwater infiltration.

Do you have any other comments? (Please use additional paper if required):

Any disposal / disposal of wastewater should prioritise  
① quality ② re-use ③ mitigation of shortages  
④ fire fighting potential ⑤

The bays involve considerable risk re rainfall, water logging, slips, run off, pond stability, construction, nitrogen & phosphate build up in soils & in the sediments of the bays.

Discharge into upper harbour (land) or water is risky in terms of flushing & overflows.

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name AUNREY PHENCH

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) —

Email (if applicable) \_\_\_\_\_

Signature \_\_\_\_\_ Date 16/4/17

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**  
Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

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Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

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# Submission form

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[www.ccc.govt.nz/haveyoursay](http://www.ccc.govt.nz/haveyoursay)

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

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Please make sure your full name and address is included with your submission.
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Christchurch City Council  
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Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

### Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons why:

LESS POLLUTION / BETTER SWIMMING WATER & CLEANER

### Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 2  Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 4  Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 3  Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 1  Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 5  Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons for this ranking:

LACK OF WATER IN AKAROA GENERALLY FOR GARDENING ETC. OPTION 4 WOULD IMPROVE THIS SUPPLY.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

DRIP IRRIGATION TO TREES. MORE TREES,  
MORE BIODIVERSITY & VISUALLY BETTER

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

NO AS LONG AS SCREENED OFF  
AND SMELL / IMPACT IS MINIMAL

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

NOT IF IT INCREASES RATES. BETTER TO  
DEAL WITH THIS MATTER FIRST.

Do you have any other comments? (Please use additional paper if required):

NO DOUBT ANY ADDITIONAL COSTS WILL  
BE ABSORBED BY RATEPAYERS. AS NOTED  
I AM IN FAVOUR OF KEEPING RATE  
INCREASED TO A MINIMUM. BETTER TO  
SPEND SOME MONEY IMPROVING THE  
MAIN BEACH !!

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name Bruce Wales

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_Postcode

Phone number (day) \_\_\_\_\_

\_\_\_\_Phone number (evening)

Email (if applicable) \_\_\_\_\_

Signature Bruce Wales Date 13/4/17

fold

fold

## Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes – I/We would like to be heard

No – I/We do not want to be heard

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Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

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tape here

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

NO

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

NO

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

NO

Do you have any other comments? (Please use additional paper if required):

I think there is only one solution to the problem.

It is common sense to discharge the treated effluent to the middle of the harbour. The other alternatives, land irrigation is far too expensive and basically a waste of money.

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name

IVAN ERAN

Organisation name (if representing)

Contact address

Postcode

Phone number (day)

Phone number (evening)

Email (if applicable)

Signature

*Ivan Erani*

Date

17-4-17

fold

fold

### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

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Yes – I/We would like to be heard

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City Council 

810-17 18 APR 17

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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

Please note: Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

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Please make sure your full name and address is included with your submission.
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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

*Extend the existing pipe  
It is buried underground, I may  
so I cannot see it cannot be extended  
so why not continue to use this pipe*

## Please state your reasons why:

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

## Please state your reasons for this ranking:

*Combining No 4 & No 5  
would greatly reduce the amount to go onto the  
sea. This would be a huge plus.*

Continued overleaf

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**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

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**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

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**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?**

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**Do you have any other comments? (Please use additional paper if required):**

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Thank you for taking the time to respond. Please include your contact details over the page.



## Akaroa Waste Water Submission.

It is with respect that I suggest that nothing new has happened to Akaroa's water supply source since first being inhabited by people, both Maori and Pakeha

All the water that has been used over time inside the Akaroa Harbour Basin is from natural run-off or springs. No outside supply of water has been brought in to supplement or boost the supply. Bottled water ,Yes.

The heavy rain of this Autumn period has demonstrated that after the supply reservoirs are full the excess flows into the harbour and is handled by the sea.

Now to sewerage, the population has increased, so we have to accept that we have to improve the standards of the treatment to the very highest and then discharge it into the harbour as is done now.

The ocean has mighty cleansing powers and as long as the treatment is to the very highest standard nature will take care of this solution.

This will be the best solution for us all, Maori and Pakeha alike.

*To combine No 4 & No 5 options would be excellent.*



# Submission form continued

### Contact details

Contact name Andrew McGeorge

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature *Andrew McGeorge* Date 13/4/2017

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes - I/We would like to be heard

No - I/We do not want to be heard

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## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** The proposed treatment level is so high and the outlet so deep that this is both the cheapest and least environmentally impacting solution.

**Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).**

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
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  - Option 5 – Disposal via a new outfall pipeline to the mid-harbour
  - Other (please describe) Option 5 + start charging the full cost of water & disposal by using those meters
- Crazy

### Please state your reasons for this ranking:

The meters were put there to charge for a scarce resource & reduce sewage volume - Jus do it. Pumping waste water miles & miles is not sustainable over hills behavior.



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Trees, I suppose.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Not Robinsons Bay.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

No.

Do you have any other comments? (Please use additional paper if required):

The planned treatment level is so high that it may be cleaner than what flows down many streams into Akaroa already. It is no longer sewage, clearly, though what comes directly out of tourist boats and pleasure craft toilets is. We cannot save the environment by giving away a scarce resource and then using massive amounts of energy to pump it over hills where nobody will see it. Charge for water, discharge to the ocean.

Thank you for taking the time to respond. Please include your contact details over the page.







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- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: OUTFALL INTO MIDDLE OF OCEAN WOULD BE A VALID OPTION BUT TOO EXPENSIVE. TECHNOLOGY

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 5 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- 6 Other (please describe) DISPOSAL VIA OUTFALL TO MID-OCEAN.

Please state your reasons for this ranking: STRONGEST OPTIONS HAVE A BALANCE OF VIABILITY & BUDGET.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

IS DRIP IRRIGATION TO TREES FOR PRACTICAL & AESTHETIC REASONS; STABILISE GROUND; AVOIDS WADING PASTURES;

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

- o POND NO. 10 IS ESSENTIAL.
- o ADDITIONAL POND SHOULD BE BY IRRIGATION AREA

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

YES; BUT CONDUCT COST-BENEFIT ANALYSIS.

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

### Contact details

Contact name Wilfred Turner (Bill)

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) 00

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date 12/04/17

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- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons why:

We agree with Ngāi Tahu and believe we all have a responsibility to protect our natural resources for future generations. The harbour is already polluted enough!

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 2 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 1 Option 2 – Irrigation of trees or pasture at Pompeys Pillar ✓
- 3 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 1 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons for this ranking:

less disruptive - one remote pipe park. Do it once, do it properly! using stainless steel pipeline. larger area with lowest groundwater level. Also no hydro electricity potential.

Continued overleaf

The harbour is a more culturally significant site!



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation to trees, even though more cost effective, would be wasted, as area exposed to winds & elements. Area more suited to pasture than spray irrigation right option. (Cost should not be a priority, think long term.)

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

No preference, leave that decision to those that have knowledge of storage ponds.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Yes, if they can be added to the benefit of all. Not if it will mean no pipeline to Pompeys Pillar.

Do you have any other comments? (Please use additional paper if required):

We think it is important, if at all possible, to bring reclaimed water, "purple pipe", constructed at the same time as the upgrades to the wastewater networks, to Akaroa for reuse in keeping Akaroa beautiful, and planting more bush.

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name

Paul Cump

Organisation name (if representing)

Contact address

Postcode

Phone number (day)

Phone number (evening)

Email (if applicable)

Signature

PR Cump

Date

18.4.17

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**  
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 Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

### Please state your reasons why:

### Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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 3 Option 5 – Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

### Please state your reasons for this ranking:

Pillar no brainer. no people at Pompeys

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation to trees no drift.  
not a problem at Pompeys Pillar

Do you have a preference for the location of reclaimed water storage pond(s)?

Please state your reasons why:

Pompeys Pillar no people.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

yes if not put in Robinsons Bay or Takamātua.

Do you have any other comments? (Please use additional paper if required):

Pompeys Pillar is the right choice  
no people. won't be culturally ~~significant~~  
significant. cost over time is minimal.  
Think of the people in Robinsons or  
Takamātua you simply can not guarantee  
no odours spray drift noise, flooding

there will be

perhaps you should also put as much  
cultural values on the people at Robinsons Bay  
or Takamātua as well

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name MRS Marion Wilson

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature MW Wilson Date 17/4/17

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Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: \_\_\_\_\_

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 2  Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 1  Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 3  Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Archdall Rd Subdivision does not have connection to sewage output we have septic tanks. We do not want ponds in Robinsons Bay!! It could lower valuation of properties in this area.

Continued overleaf



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**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

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**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

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**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?**

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**Do you have any other comments? (Please use additional paper if required):**

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Thank you for taking the time to respond. Please include your contact details over the page.



PS.

I collect rain water

from Roof with pressure pump.

if it overflows it goes directly into sea.

My garden is kept watered with this and washes car windows etc.

saving water from council.

Akaroa Residents should all do this!

# Submission form continued

## Contact details

Contact name 524C R4052

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date \_\_\_\_\_

fold

fold

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes – I/We would like to be heard

No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

fold

FREEPOST Authority No.178

**Christchurch**  
City Council 

810-17 19 APR 17 **Free**    
CARRIED BY NEW ZEALAND POST <<<  
>>> GOT A QUESTION? VISIT [WWW.NZPOST.CO.NZ/HELP](http://WWW.NZPOST.CO.NZ/HELP) <<<

tape here

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

**Please note:** Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

Submissions, with names but without contact details, are made available online once the Board, Committee or Council agenda goes live on the Council website.

If requested, Council is legally required to make all written and/or electronic submissions available to the public, including the name and contact details of the submitter, subject to the provisions of the Local Government Official Information and Meetings Act 1987.

If you believe there are compelling reasons why your contact details and/or submission should be kept confidential, please contact the Council's Engagement Manager on (03) 941 8999 or 0800 800 169 (Banks Peninsula residents).

### How to give us your feedback

You can use this submission form or you can provide your feedback in a number of ways:

- **Online:** You may enter your submission using the online form provided on the Council's website at [ccc.govt.nz/haveyoursay](http://ccc.govt.nz/haveyoursay)
- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
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Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 2 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 3 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

NO. THE LAND STRUCTURE IS CLAY  
AND IN WINTER BECOMES VERY WET  
SO SPRAY IRRIGATION WOULD NOT BE AN OPTION

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

CLOSE TO AKAROA  
SO OPTION 4 CAN BE USED

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

FIRE STORAGE PONDS WITH HELICOPTER ACCESS. + FIRE BRIGADE ACCESS  
+ OPTION 4

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Alan + Lou Bradford

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date 20/4/2017

fold

fold

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes – I/We would like to be heard

No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

fold

FREEPOST Authority No. 178

**Christchurch**  
City Council 

810-17 19 APR 17 CARRIED BY NEW ZEALAND POST <<

>>> GOT A QUESTION? VISIT WWW.NZPOST.CO.NZ/HEL <<

Free 

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

tape here

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Prefer drip to trees, anything to encourage more birds in the area.

Not required if Option 5 is adopted.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

No preference as long as they are maintained and blend with the surrounding area.

They need to be well away from surrounding houses.  
Would not be an issue if piped back into harbour. Option 5.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Could be done at a later time.

Do you have any other comments? (Please use additional paper if required):

If the water returned to the harbour via Option 5 is as clean as is stated in your proposal, could it not be piped further down the harbour were it will interact with the tide more.

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form

### PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

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- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
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Consultation closes on Sunday 30 April 2017

### Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

#### Please state your reasons why:

Common sense says that it will have the least impact on our community it might not be preferred by all but definitely by the majority.

### Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

#### Please state your reasons for this ranking:

Option 5 will have the least impact on our Community. From a Cultural perspective we would not be offended by this Option. (5).

Continued overleaf

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

### - Received via Have Your Say -

### *Submissions close 5pm, 30 April 2017*

Full Name*:	Fiona Turner
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/21/2017 4:49:00 PM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Re-Use in Akaroa Akaroa needs water considering it has water shortages in the summer.
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	If suitable trees were selected I would prefer irrigation to trees, but still have concerns about this because of the generally poorly draining loess soils on Banks Peninsula. I see spray irrigation totally unacceptable in Robinsons Bay.

Do you have location preference? Why:	I am totally against ponds on the Valley floors and see pond site 10 as the best location.
Should Council add aspirational projects to the Akaroa wastewater scheme?	Fire storage ponds seem a very sensible idea, but a reticulated wastewater scheme in Takamauta seems unsuitable.
Any other comments?	<p>I am 75 years old and have spent the last 28 years living and working on my property with my parents and husband developing an organic farm.</p> <p>The property of 7 Ha was a former organic farm, now a retirement lifestyle block with extensive lemon orchard, fruit trees &amp; large vegetable garden. It is also home to a flock of sheep, two donkeys as well as many ducks, native birds and Tui™s</p> <p>My husband Pip died in Sept 2016, and I now have to manage this large property on my own. My intention is to live on the property as long as I can manage. One of my lifelong hobbies and greatest pleasures in my current semi-retirement has been caring for my pet donkeys. The donkey stable and paddock are my sanctuary. Unfortunately they abut onto the area planned for a wastewater pond.</p> <p>I anticipate that it will be very difficult to sell the property when I need to do so, if there is the threat of a large wastewater pond being placed very close to my boundary, and even worse during the period of construction.</p> <p>My quality of life is already under stress with the threat of this pond and associated irrigation of wastewater on two sides of my property. Once construction commences there will be impacts of noise, machinery and dust on my property, and this will be at its worst at the donkey stable. My desire to sell the property therefore increases.</p> <p>Flooding is also a huge issue and during severe rainfalls I can hear the large boulders rolling down in the nearby creek. Massive runoff causes this to turn into a torrent, which then ends up in the main valley river.</p> <p>I have concerns about the time it will take to establish trees for irrigation to a reasonable size, where they will actually be able to take up the wastewater effectively.</p> <p>I now also find that the consultation document mapping shows a possible pond site above my property, and a very large one located near my lower boundary. My own property also has areas that have been earmarked for irrigation. I have real concerns about the Council's ability to maintain this scheme and the possibility of systems failing could cause pollution and contamination to the environment.</p> <p>My entire life savings are tied up in this property. There has been no mention of compensation for the very real effects I will suffer. Public perception of the area being used for the disposal of wastewater will have a huge impact on property values and affect the ability to be able to sell. I cannot wait years for this project to settle down before I sell my property, and taking a much lower price means that I will live in reduced circumstances for the rest of my days.</p> <p>I want to see a sustainable, fail safe solution where the water is reused in a beneficial way. I found the proposal for Robinsons Bay very unclear and have many concerns about the project that don't seem to have been addressed. These include contamination to my domestic water supply, possible damage to fences on my boundary, smells coming from the prevailing North East wind, runoff, fragipans in the soil, flooding risks, midges and insects, and the health of people, stock and the environment. Soil engineer Andrew Dakers has said that the project is very technically challenging and that "There is no similar long-standing large scale year round land based wastewater irrigation system in NZ to model options 1 to 3 by." I can not understand how local government could ever be considering harming the local community and environment in this way.</p> <p>I very much value the rural lifestyle I am able to lead - the peace and quiet, rural views, the beautiful pristine environment and want this preserved. I hope the Council will come up with a sensible solution.</p>



## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Brent and Jacqui George
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/22/2017 9:57:41 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	On behalf of a group or organisation
Role within Organisation	Parent
Group/Organisation Names	George Family
How many people do you represent?	4
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	<p>Non-potable re-use. Specifically as described by the Friends of Banks Peninsula (FOBP) submission which we fully endorse. Disposal via new outfall - certainly as the main disposal method - is unacceptable in today's world. A solution that provides irrigation to trees or pasture may seem environmentally sensible, but like most infrastructure solutions, the devil is in the detail. This option would need to seriously and correctly consider all of the wider impacts on the immediate environment - both to the local eco-systems and the human (residential) occupation.</p> <p>Further, the well known water supply shortages experienced by Akaroa in summer needs to be addressed. A solution that can mitigate the water supply shortage by non-potable re-use seems to be a no-brainer!</p> <p>Our family are frequent visitors to Banks Peninsula, and Robinsons Bay and Akaroa in particular. As occasional occupiers of the Pavitt Cottage at 5 Sawmill Road in Robinsons Bay, we strongly object to the possibility of any wastewater treatment solution being accommodated in the valley, especially in the upper reaches above Sawmill Road. Our significant concerns with the establishment of a wastewater irrigation solution as described by the CCC Option 1 proposal includes:</p> <ul style="list-style-type: none"> <li>- the negative impact on the spring feed water supply source for the cottage which is approximately 200m up the valley above the cottage and protected by easement, and within the spray and dripper irrigation areas proposed;</li> <li>- the impact on all other water supply (well) systems used by other residents in the valley;</li> <li>- the impact of severe weather events on any treatment solution and the ability of the system to cope with flooding and land slippage;</li> </ul>

	<ul style="list-style-type: none"> <li>- the error depicted on the 'Robinsons Bay Study Area' map by Beca that omits to place a Residential Exclusion Zone around the Pavitt Cottage;</li> <li>- the potential negative visual, environmental, odour, and amenity impact on the Valley caused by the construction, usage and on-going development of the system;</li> <li>- the significant number of unknowns with respect to the Robinsons Bay (and Takamatua) solutions offered - the acknowledged "knowledge gaps". These include the assumption that native bush regeneration would benefit from drip-fed irrigation with high nutrient loading; the capacity of the soils to accommodate such a systems; and extreme event mitigation issues;</li> <li>- the inadequate accounting of the costs for the maintenance and protection of the irrigation network;</li> <li>- the short-sightedness of Council to not initially consider a non-potable re-use option within the proposed solutions. A modern, forward thinking Council would seek to utilise a best-practice environmentally sensitive and practical solution, particularly one that would to assist with the relief to the summer water supply shortages experienced within Akaroa.</li> </ul> <p>We fully endorse the "Non-potable re-use in Akaroa" CCC Option 4 solution.</p>
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	<p>As described above.</p> <p>A modern, forward thinking Council would seek to utilise a best-practice environmentally sensitive and practical solution, particularly one that would to assist with the relief to the summer water supply shortages experienced within Akaroa.</p> <p>The irrigation to trees and pasture at Pompeys Pillar (a sole farming environment) would supplement the "re-use in Akaroa" option.</p>
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	<p>Only if:</p> <ul style="list-style-type: none"> <li>- it was proven to be effective for natives (we believe it may not be)</li> <li>- if there were NO residential activity/occupation within or adjacent to the dispersal field and downstream/downhill environments</li> </ul>
Do you have location preference? Why:	<p>No. Any location of water storage ponds need to consider many factors including:</p> <ul style="list-style-type: none"> <li>- negative visual amenity to tourists and local residents;</li> <li>- address increased insect issues if that occurs;</li> <li>- ensure there are no odours;</li> <li>- allow for extreme (disaster management) events.</li> </ul>
Should Council add aspirational projects to the Akaroa wastewater scheme?	Yes - but not at the expense of all/any other infrastructure issues....
Any other comments?	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

### - Received via Have Your Say -

### *Submissions close 5pm, 30 April 2017*

Full Name*:	renan cataliotti
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/22/2017 4:07:15 PM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	<p>Non potable re-use in Akaroa for private and public gardening, spraying, cleaning of boats, cars and path ways, toilets.</p> <p>We do not need to waste potable water to wash boats, cars, etc... or water gardens and parks, spray streets or flush the toilets.</p> <p>we can end water restriction and waste of clean potable water that way.</p>
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Other (please describe)
Option 3	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 4	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 5	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 6	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Other	irrigation of native trees ONLY for reserves and irrigation of selected species for their ability to absorb moisture and produce high quantity of dry matter in a sustainable and renewable way.



<p>State reasons for ranking</p>	<p>Re using and not disposing is the only sensible way to go today. We have to be responsible and stop polluting and wasting.</p> <p>Pastures will not hold that much water, especially in winter. run off to the sea will occur and slips on steep areas.</p> <p>The city council or residents can produce high quality dry matter for fuel without damaging hill sides by planting coppicing species irrigated by non potable water.</p>
<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>trees only. see above</p>
<p>Do you have location preference? Why:</p>	<p>Akaroa. Akaroa residents and holyday makers are the ones using most of the water.</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	
<p>Any other comments?</p>	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Bryan Tichborne
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/23/2017 12:14:48 PM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	A combination of the introduction of re-use of non-potable treated water within Akaroa via a purple pipe system - with a new outfall in mid-harbour. Once the re-use option is fully operational (may take several years) the harbour outfall would only be used in times of emergency. To dispose of the treated water via non-productive, invasive & untested methods in Robinsons Bay & Takamatua is not a viable option. Using it in Akaroa will eventually permanently solve our serious summer water shortage problems & keep ratepayers happy! Akaroa could lead NZ with this move...
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	Re-use is a no-brainer.

<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>In Robinsons Bay or Takamatua - neither Unproductive, invasive &amp; not properly tested.</p>
<p>Do you have location preference? Why:</p>	<p>For re-use option - somewhere close to the treatment plant, out of sight &amp; in a safe place geotechnically.</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>Fire storage ponds have merit.</p>
<p>Any other comments?</p>	<p>I wholeheartedly support &amp; commend the efforts the Friends of Banks Peninsula have put into their submission.</p>



**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Nancy Tichborne
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/23/2017 1:27:13 PM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	A combination of the introduction of re-use of non-potable treated water within Akaroa via a purple pipe system - with a new outfall in mid-harbour. Once the re-use option is fully operational (may take several years) the harbour outfall would only be used in times of emergency. To dispose of the treated water via non-productive, invasive & untested methods in Robinsons Bay & Takamatua is not a viable option. Using it in Akaroa will eventually permanently solve our serious summer water shortage problems & keep ratepayers happy! Akaroa could lead NZ with this move!
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	Re-use in Akaroa is a no-brainer. Water shortages into the future can only get worse.

<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>In Robinsons Bay or Takamatua - neither. Unproductive, invasive &amp; not properly tested.</p>
<p>Do you have location preference? Why:</p>	<p>For re-use option - somewhere close to the treatment plant, covered, out of sight &amp; in a safe place geo-technically.</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>Fire storage ponds certainly have merit.</p>
<p>Any other comments?</p>	<p>I wholeheartedly support &amp; commend the efforts &amp; lengths the Friends of Banks Peninsula have put into their submission. As a Pavitt family descendant &amp; chair of the Pavitt Family Trust I speak for the over 500 members within the Trust. Our little cottage (built in the 1850's) is sited in the middle of the valley &amp; is a locally significant historical building. I am horrified at the idea of disposing of Akaroa's wastewater in this beautiful area. It would be a sacrilege! The infrastructure required, the artificial tree plantings without any testing for suitability, the exposing of residents to more water than the valley soils could cope with, the worries about polluted drinking water &amp; crops... The list goes on.</p>

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Kevin McSweeney
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/23/2017 6:53:25 PM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	In my view the so called "Ngai Tahu cultural values" are a 20 th century construct nod therefore not a treaty issue. The scientific evidence is clear that ocean disposal is a safe and effective way of dealing with properly treated effluent. So called cultural concerns have no factual basis and are part of the recent "anti scientific" debates. However I do wonder if the pipeline could be longer and go right to the open sea
Option 1	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 2	Other (please describe)
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 5	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 6	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Other	Irrigate trees above Akaroa in the Braesnose Purple Peaks catchment. The trees are there, the council owns much of the land and there are some existing reserves (for example Des McSweeney's QE2 covenant high up walnut creek).
State reasons for ranking	Common sense



<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>Trees definitely. We have lost so many trees on the Peninsula it would be good to replace some. Also they provide a much more stable basis.</p> <p>However it is important we use native trees/bush. I suggest the council contact Scion (formerly the forest research institute) in Rotorua. Dr Emily Telfer, who has family links to the area, leads a group looking at Totara as a forest plant. Given the fact this tree formerly covered the Peninsula (prior to Maori burning and European clearances) this would be ideal. It also has a much longer lifespan than exotic forest</p>
<p>Do you have location preference? Why:</p>	<p>As I think the water should be used in the catchment above Akaroa it should be somewhere there. There are a lot of suitable sites.</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>Aspirations are nice but tend to be costly and complicating. Let's stick to the one task and do it right.</p>
<p>Any other comments?</p>	

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Bryan Haylock
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/23/2017 8:51:03 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Use recycled water back on gardens in Akaroa then any excess goes to Pompey Pillar Most environmentally friendly option,we do not want the ponds or water in Robinsons Bay that would effect the stability of the land ,home stay next door and our valuations if it all went wrong.Why not go to Pompeys Pillar where the water is wanted,and in summer use on gardens in Akaroa where it is needed.
Option 1	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 2	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 3	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 4	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 5	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 6	Please select
Other	
State reasons for ranking	We have explained earlier

Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	What ever works as long as its not in Robinsons Bay
Do you have location preference? Why:	Pompeys Pillar for irrigation of pasture and a storage pond close to Akaroa if the water is to be reused there
Should Council add aspirational projects to the Akaroa wastewater scheme?	no
Any other comments?	



**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Giles Foley
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/24/2017 7:25:28 AM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Option 4 non potable reuse in Akaroa. Best use of this resource as stated in FOB submission.
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 3	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	Best use of this resource
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	Pond site 10 covered to avoid odour,birds etc before reuse in Akaroa.
Should Council add aspirational projects to the Akaroa wastewater scheme?	Yes
Any other comments?	As a land owner and farmer in Robinsons Bay it is imperative that we can continue our farming operations without hinderance and interruption. That we can also see a drop in land values and potential problems both visual and physical if waste water is to be placed into Robinsons Bay.

# Submission form continued

## Contact details

Contact name ARRAM HAQUE

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date 16/04/17

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## Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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FREEPOST Authority No.178

**Christchurch**  
City Council 

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

Free  



# Submission form

### PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
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- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Please make sure your full name and address is included with your submission.
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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

### Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: Nowhere near the residential area -

Concern about nitrogen labels in the ground.  
Property values eg. our property is by Takamātua  
valley road

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 5 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

as above

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation - doesn't affect stock eg. stand down period before slaughter - nitrogen spread over a greater area.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

away from residents & away from natural creeks which have the potential - flood.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Our septic tanks currently works - with extra water - our system with effects.

Do you have any other comments? (Please use additional paper if required):

Akaroa with home to deal with its own waste water in Akaroa - or well away from any houses -

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Nicky Jenkins

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Nicky Jenkins Date 16/4/17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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FREEPOST Authority No.178



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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

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- Option 1 – Irrigation of trees or pasture in Robinsons Bay
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- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
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Please make sure your full name and address is included with your submission.
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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Will not effect any residential areas. Concerned about nitrogen levels from reclaimed water.

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 5 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

As above. Ponds in Robinsons and Takamātua Valley will effect land values and

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation because spray irrigation will affect stock - eg stand down before slaughter

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Should be no where residents ~~and~~ and creeks that may flood eg Takamatua.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

No need for change - concern is that additional ground water may affect septic systems

Do you have any other comments? (Please use additional paper if required):

The proposed water storage system in Takamatua + Robinson Bay will affect land values, have potential to negatively affect local environment and be an eyesore. It seems wrong that Takamatua + Robinson Bay should be affected by negatively by a system that they aren't even involved in ie they are on septic tanks

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name B H Jenkins

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature B H Jenkins Date \_\_\_\_\_

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Yes - I/We would like to be heard

No - I/We do not want to be heard

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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: *It will devalue our land in Takamātua 64 Valley Rd.*

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 4 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
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- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

No. Reason given below

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

- Pipe line in middle of harbor, it would be less intrusive to residential areas

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

The septic tank works in Takamātua but additional water may have caused problems with tanks rising or functioning well.

Do you have any other comments? (Please use additional paper if required):

With stand down time for stock on irrigated areas what is the farmer supposed to do with stock if he has no other pasture.

How any work has been done on the effect of water on pasture over long term been done.

Let Akaroa deal with its problems in Akaroa.

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Sandra Jenkins

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature]

Date 16/4/2017

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

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Yes - I/We would like to be heard

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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

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# Submission form

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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: Wasthere near residential areas

concern about nitrogen levels in the ground  
Property votes eg <sup>our</sup> property of 64 Takamātua Valley Rd.

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

As above.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation - doesn't affect stock eg a stand down period before slaughter - nitrogen spread over a much greater area.

Do you have a preference for the location of reclaimed water storage pond(s)?

Please state your reasons why:

Away from residences & away from natural creeks which have the potential to flood

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

The ~~septic~~ septic tank we have works fine now but there is a concern that additional ground waste may affect the septic system in the future.

Do you have any other comments? (Please use additional paper if required):

Where is the Akaroa plan? - Akaroa needs to deal with its own waste water in Akaroa or an area well away from any houses.

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

### Contact details

Contact name Chris Jenkins

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

\_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Chris Jenkins Date 16/4/17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

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# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

**Please note:** Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

Submissions, with names but without contact details, are made available online once the Board, Committee or Council agenda goes live on the Council website.

If requested, Council is legally required to make all written and/or electronic submissions available to the public, including the name and contact details of the submitter, subject to the provisions of the Local Government Official Information and Meetings Act 1987.

If you believe there are compelling reasons why your contact details and/or submission should be kept confidential, please contact the Council's Engagement Manager on (03) 941 8999 or 0800 800 169 (Banks Peninsula residents).

### How to give us your feedback

You can use this submission form or you can provide your feedback in a number of ways:

- **Online:** You may enter your submission using the online form provided on the Council's website at [ccc.govt.nz/haveyoursay](http://ccc.govt.nz/haveyoursay)
- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons why:

No where near residential areas especially our property at 37 ~~at~~ 64 Tamataua Valley

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 5 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 ~~4~~ Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons for this ranking:

as above

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

drip irrigation on Trees would have less impact on stock and no stand down before slaughter.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Not in our back yard and well away from people who have there own septic tanks.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

We have our own septic tanks which works now but with extra water sprayed on or near our property it would effect the way it works now.

Do you have any other comments? (Please use additional paper if required):

We do not want spray or drip irrigation in Takamātua or Robinsons bay. Property values will drop and we dont want to live in a area that has all the waste water from akaroa on our doorstep.

Thank you for taking the time to respond. Please include you contact details over the page.

# Submission form continued

## Contact details

Contact name L. M. Sales

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature LMSales Date 17.4.17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

tape here



# Submission form

have your say

www.ccc.govt.nz/haveyoursay

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

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Please note: Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

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- **Online:** You may enter your submission using the online form provided on the Council's website at [ccc.govt.nz/haveyoursay](http://ccc.govt.nz/haveyoursay)
- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: *There is evidence that some varieties of reeds are very good at filtering and cleaning wastewater. Trickle irrigation through reed beds to remove chemicals and heavy metals has been used elsewhere to good effect.*

*This would also enhance the deodorising and bacteriocidal properties of sunlight (UV).*  
Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 3 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 1 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 4 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking: *All of the above, with the exception of Option 2, result in chemicals and salts being returned to the harbour as runoff. Who knows what the long term effects of these are - the harbour does not 'flush' well - and what of their effects on pasture? With Option 2 they would wash into the open ocean. Also - irrigating populated areas is anathema - who wants it on their doorstep?*  
*The issue of chemicals has not been addressed in this document.*



2012.M.J

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Although sunlight on pasture might help break down chemical residues such as detergents, there could well be a build-up over time resulting in the land becoming toxic and sour, particularly if grazed. Chosen varieties of trees might be able to mitigate these bad effects. Or, reed beds as mentioned below.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Not upstream of any houses, and with a clear outfall through reed beds so that in the event of extremely heavy rain they do not overflow and cause a nuisance, and the runoff is naturally filtered.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

I would not support any 'aspirational' projects that were being used in a kind of 'carrot and stick' type of pressure to force residents of any particular area to accept a part of the wastewater scheme that was otherwise unacceptable to them.

Do you have any other comments? (Please use additional paper if required):

I would advise the separation of stormwater and sewage to reduce the amount of water that needs to be treated and disposed of in the first place. Encouraging rainwater collection might help, or allowing rainwater to discharge into creeks and water courses rather than the sewage/grey water systems.

Even irrigating land with so-called 'clean' artesian water can result, over time, in the buildup of salts which render the land infertile. Faecal coliforms are not the only or the worst pollutants: to destroy this relatively pristine environment and good farmland by pouring chemicals on to it would be extremely shortsighted. Not to mention the runoff into the harbour.

Thank you for taking the time to respond. Please include your contact details over the page.

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Graham & Pat Eves
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/24/2017 8:50:01 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	2
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Non-potable reuse in Akaroa It's reused where it came from.
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	The better option for future planning.
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	No to both. Prefer reuse where it needed instead of disposal.



Do you have location preference? Why:	No preference as long it's close to Akaroa & not in Takamatua or Robinsons Bay.
Should Council add aspirational projects to the Akaroa wastewater scheme?	No (The council says it's got no available money for extras) - Provide the best option for the future without impacting on the local valley communities.
Any other comments?	Why is the council driven by budgets when it should be driven by doing whats right. (We are previous resident of Robinson's Bay)

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -  
Submissions close 5pm, 30 April 2017**

Full Name*:	Brendan Glover
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 4:15:23 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	



## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Georgiana Osborne
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 9:38:41 AM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Re used in Akaroa with short term outfall pipeline further out to the harbour Water is a resource and should be treated as a valuable asset in a world that will be increasingly short of water
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Other (please describe)
Other	water should be reused in Akaroa and anywhere else where the land owners and those adjacent wish to have it but treated to a potable standard.
State reasons for ranking	Water is a valuable resource and should be treated to the highest possible standard with a view to reusing for in Akaroa. Until the total waste water can be used a short term harbour outfall should be applied for. More research is needed to find acceptable ways to return the water to the aquifers for general reuse

<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>Only if landowners and adjacent landowners wish for this. More research is needed as to which native trees respond to irrigation long term, and the risk of the spread of exotic weed species should be taken in to consideration i.e wilding pines.</p>
<p>Do you have location preference? Why:</p>	<p>option 10 is acceptable subject to landowner agreement</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>Fire storage ponds are needed viz the recent port hill fires. Permanent ponds would evaporate in summer and could be topped up in the winter. They could be scattered around Akaroa again subject to landowner and adjacent landowner approval</p>
<p>Any other comments?</p>	<p>The land in Takamatua Valley has cultural and landscape significance. In particular trees at 12 Bells Road are listed with the Christchurch City Council as being of cultural and landscape significance. They are protected under the Natural and Cultural Heritage Chapter of the District Plan. As a landowner I have supported the protection of these trees.</p> <p>It should be noted that myself and other elderly residents of Takamtua Valley have suffered considerable stress at having the land in Takamatua marked out for potential irrigation and would oppose land in the Valley being included as far as our resources permit</p>

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Michael Osborne
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 9:56:02 AM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	I favour reuse in Akaroa and a temporary consent to a new outfall in Akaroa Harbour further out. Water is already scarce in Akaroa and with climate change is likely to be even scarcer. Already water from the Takamatua stream is transported to Akaroa
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Other (please describe)
Other	I believe the water should be treated to the highest possible standard and reused in Akaroa
State reasons for ranking	The waste water comes from Akaroa and should be returned there. If necessary residents and holiday home and business owners should pay for water used after a reasonable amount (water meters are already installed) which would encourage the reduction in waste water which should be reused there
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	Neither



Do you have location preference? Why:	10 is possible with landowner and adjacent land owner approval
Should Council add aspirational projects to the Akaroa wastewater scheme?	Fire storage ponds are needed. Most Takamatua Valley have spent large sums on modern &quot;septic&quot; tank type treatment and would not welcome additional charges
Any other comments?	Takamatua Valley has considerable landscape significance with many 160 plus year old trees some of which are protected under the CCC district scheme. As already stated in the submission booklet there is very little land not bounded by streams and houses. As the recent storm proved the flat land turns into lakes with any high rain fall.

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Stephanie Connell
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 11:43:06 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Beneficial reuse of the water in Akaroa. See Friends of Banks Peninsula submission Akaroa is currently unable to provide enough water for its own needs and currently takes clean water from Takamatua to deal with their problem. This will only get worse in the future due to increasing tourism numbers and projected drought conditions in the future. Also treating the waste water as an asset is more forward thinking than simply dumping it on surrounding valleys making their land unusable. Dumping it is a waste of a valuable resource
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	The use of Robinsons Bay or Takamatua for Akaroas Sewage is completely unacceptable to me especially due to the large number of residents who will be impacted both with land use and property prices and questionable health effects.

<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>I do not support either if it is where people live especially with the proposed boundaries</p>
<p>Do you have location preference? Why:</p>	<p>Pond site 10, covered to avoid midges and odour give the proximity to residents and to avoid fouling before reuse in Akaroa</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>I support aspirational projects please see the submission by Friends of Banks Peninsula</p>
<p>Any other comments?</p>	<p>Akaroa is currently unable to provide enough water for its own needs and currently takes clean water from Takamatua to deal with their problem. This will only get worse in the future due to increasing tourism numbers and projected drought conditions in the future.</p> <p>Also treating the waste water as an asset is more forward thinking than simply dumping it on surrounding valleys making their land unusable. Dumping it is a waste of a valuable resource.</p> <p>I whole heartedly support and endorse the Friends of Banks Peninsula submission on the Akaroa Reclaimed water beneficial reuse, treatment and disposal options.</p> <p>I strongly disagree with the use of Takamatua and Robinsons Bay for Akaroas sewage disposal for the following reasons.</p> <ul style="list-style-type: none"> <li>• The large number of residents living in Takamatua and Robinsons Bay who will be impacted. Financially, with their property values. Land use would be impacted as residents would no longer be able to use land for grazing, growing vegetables, farming organic olives or walnuts etc. Massively effecting their businesses and livelihoods. The visual impact of a sewage treatment plant in these valleys cannot be over stated enough. Takamatua especially, with its steep valley as you drive in, tourists/residents would be able to see the treatment plant from above. Especially pond 7 with its high walls having to be above ground. I am also concerned about the health risks of living so close to a sewage pond, with drip or spray irrigation so close to residential houses. Especially considering the treated water could still contain hormones, viruses, heavy metals and pharmaceuticals.....and nitrogen.</li> <li>• I am concerned about midges especially in light of the recent Radio Live article “Nightmare for Christchurch Residents” about the midge problem in Bromley in Christchurch that has been going on for a long time without any resolution.</li> <li>• I am also concerned about possible odour. Having come from Christchurch and driven through the Bromley poos ponds many many times I know that there is often an odour.</li> <li>• I am also concerned about the possible out flow into streams and waterways affecting wildlife in the streams. Whitebait etc.</li> </ul> <p>On a personal level:</p> <p>I sold my home in Christchurch four years ago to move to Takamatua to start a new life after becoming environmentally poisoned in the work force nine years ago, and going through the Christchurch earthquakes.</p> <p>Both my sister and I have made the move together to start a new life. My sister to start a new business after having lost it twice in the earthquakes.</p> <p>If the sewage were to come to Takamatua I would not be able to continue living here due to the fact that I cannot detox chemicals. My illness has caused me to be hyper sensitive to chemicals and even the possibility of midge bites is a huge concern as I can have reactions to insect bites. I am 59 years old and unable to work due to my health condition so if I was forced off the property due to the impact that the sewage may pose in Takamatua I may be forced to walk away due to the fact it will effect the property price.</p>



**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Brian, Anne & Caitlin Eves
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 2:34:04 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	On behalf of a group or organisation
Role within Organisation	
Group/Organisation Names	Eves household
How many people do you represent?	3
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Non-potable reuse in Akaroa. The Friends of Bank Peninsula submission makes sense for resource reuse.
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	Only this option plans for the future without damaging the existing Bay environments.
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	No.

Do you have location preference? Why:	Not in Robinsons Bay or Takamatua. Why -Our bach is in Robinsons Bay.
Should Council add aspirational projects to the Akaroa wastewater scheme?	Fire storage pond would be an asset if budget allows. Why - Look @ what happened on the Port Hills & Fires are fought on the ground.
Any other comments?	I am a Robinsons Bay ratepayer & support the RBRRRA submission to you.

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Janet Eales
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 2:43:53 PM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	<p>Approach should be one of beneficial use not disposal. Wastewater should be treated to a level that is safe to drink.</p> <p>I am aware that Bill Gates has financed a project, currently being used in Senegal, that will treat large volumes of waste-water to a drinkable standard. I understand the cost would be considerably less than any of the CCC proposals. It would mean there would no longer be a water shortage in either Akaroa or Takamatua.</p>
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Other (please describe)
Other	As indicated above
State reasons for ranking	To provide a Wastewater treatment system that will provide a solution to our wastewater problems in the most efficient and effective way.



<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>With the above suggested solution neither would be necessary</p>
<p>Do you have location preference? Why:</p>	<p>Not sure</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>Should not be necessary</p>
<p>Any other comments?</p>	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

### - Received via Have Your Say -

### *Submissions close 5pm, 30 April 2017*

Full Name*:	Graeme & Lorraine , Todd & Louisa, Craig & Sarah Raxworthy
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 8:50:41 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	On behalf of a group or organisation
Role within Organisation	Secretary
Group/Organisation Names	Raxworthy Family Trust
How many people do you represent?	Six
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	
Option 1	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 2	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	<ol style="list-style-type: none"> <li>1. Processed to a higher level so that it can be discharged into the Harbour and we feel this is the best option for the whole of Akaroa &amp; the Bays.</li> <li>2. Re use of water in Akaroa via the purple pipe system, a good idea for the township.</li> </ol>

<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>No - The land is not suitable in the Akaroa &amp; Bays area &amp; it will drain into the streams.</p>
<p>Do you have location preference? Why:</p>	<p>No - We do not think that water storage ponds are the answer. Akaroa &amp; the Bays area are not suitable.</p>
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	<p>Do not support any.</p>
<p>Any other comments?</p>	



## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Craig Church
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/25/2017 9:12:20 PM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	re-use back into Akaroa  I support the Friends of Banks Peninsula submission.
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 3	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	Neither. I would want the water to be re-used for a beneficial purpose.

Do you have location preference? Why:	Pond site 10 - it is a good location for several options.
Should Council add aspirational projects to the Akaroa wastewater scheme?	Fire fighting ponds are a good idea. I do not support a wastewater scheme in Takamatua at this stage as there are too many unanswered questions surrounding this project.
Any other comments?	<p>I found the proposal for Robinsons Bay very disturbing, having lived here for 17 years and knowing the Valley, the land, the soil and the extreme weather conditions we experience. I have serious reservations about the capacity of the local soils to absorb excess water.</p> <p>In large floods the area marked as Ponds site 2, near the boundary of our property, has ended up with large branches and logs right across the paddock, swept across by the power of the water when the creek has burst it's banks. I have even been up to my waist in water in the lower part of those flat paddocks in severe floods, and the neighbouring houses at the corner of the Valley have had water going through buildings on their properties.</p> <p>As a small hobby farm we have spent nine years working on a specific breeding program with our sheep. Our property had been earmarked for possible irrigation and the main paddocks where I graze our sheep have been singled out. I require these paddocks in the summer as my main source of feed, and do not know how I could continue to graze them with constant irrigation being applied over the summer. The withholding period for stock would mean I would have to move them to other areas, but I do not have the capacity to do this. This would impact me commercially and would also cause concerns for me as some of these sheep are actually a food source for my family.</p> <p>We also harvest walnuts commercially, and some of our trees are in the area marked for irrigation. How am I assured the quality and safety of my crop will not be affected? Do you offer compensation for these things? The value of the land will clearly be downgraded if this scheme goes ahead.</p> <p>It's all very well coming up with these 'desktop' ideas but they are totally unproven and not suitable for this location.</p> <p>In the last seven months the wastewater issue has impacted our lives in a huge way. Our community (with the assistance of Friends of Banks Peninsula Incorporated Society) have put forward some very good suggestions which I think the Council need to seriously consider. The long term outlook is for dryer weather conditions and the re-use of this resource makes good sense.</p>

# Submission form continued

## Contact details

Contact name Chris and Tracey Pottinger

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature *Chris and Tracey Pottinger* Date 20/4/2017

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes – I/We would like to be heard

No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

FREEPOST Authority No.178

**Christchurch**  
City Council 

**Free**  

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

Please note: Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

Submissions, with names but without contact details, are made available online once the Board, Committee or Council agenda goes live on the Council website.

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If you believe there are compelling reasons why your contact details and/or submission should be kept confidential, please contact the Council's Engagement Manager on (03) 941 8999 or 0800 800 169 (Banks Peninsula residents).

### How to give us your feedback

You can use this submission form or you can provide your feedback in a number of ways:

- **Online:** You may enter your submission using the online form provided on the Council's website at [ccc.govt.nz/haveyoursay](http://ccc.govt.nz/haveyoursay)
- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: Domestic re-use within Akaroa township.

Garden irrigation, washing cars and boats. This is most sustainable.

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 2 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 1 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 3 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- 4 Other (please describe)

Please state your reasons for this ranking: Land irrigation in the valleys is not sustainable in wet years, times of heavy rain and storms. Overflow will end up in the silted bays in the top of Akaroa harbour.

Continued overleaf

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**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

Drip irrigation of trees does appear a better solution in the crowded valleys.

Pasture drip would appear to be better in open areas like Pompeys Pillar farm.

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**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

No preference. Out of sight of occupied dwellings would be better.

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**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamatua Valley)? If so, which ones do you support and why?**

Yes definitely.

Fire storage ponds for Akaroa and reticulated wastewater for both Takamatua and Robinsons Bay would be something to aspire to and link into future wastewater solutions for Ngaio Point and Duvauchelle.

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**Do you have any other comments? (Please use additional paper if required):**

Both Takamatua and Robinsons Bay are prone to flooding in wet years and therefore unsuitable for large scale water disposal. The water will end up in heavily silted bays in the top of Akaroa harbour - not a sustainable solution.

It also seems strange that it is considered acceptable to dispose of wastewater in Robinsons Bay - one of the most important Heritage sites in Akaroa harbour (a topic we are being asked to submit on this very week).

Our property is heritage listed as is the neighbouring property of Pavitt Cottage. There are some plans to put storage ponds just across the road and fence from these houses. Heritage and wastewater disposal do not seem a natural mix.

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Thank you for taking the time to respond. Please include your contact details over the page.



①

Robinsons  
Bay

Feb 2015

- a DRY  
year

My photos  
used in  
consultation  
document  
NOT from  
paper Rd.





②

Robinsons  
Bay

November  
25th  
2016

- a wet  
spring

photo  
from  
same  
site





3

Robinson's Bay  
Flooding  
April 2017

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# Submission form continued

## Contact details

Contact name Hugh Wilson

Organisation name (if representing) (individual submission)

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Hugh D. Wilson Date 20 April 2017

fold

fold

### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

fold

FREEPOST Authority No.178

**Christchurch**  
City Council 

810-17 21 APR 17 CARRIED BY NEW ZEALAND POST <<

>>> GOT A QUESTION? VISIT WWW.NZPOST.CO.NZ/HELP <<



Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

haveyoursay

[www.ccc.govt.nz/haveyoursay](http://www.ccc.govt.nz/haveyoursay)

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

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Please make sure your full name and address is included with your submission.
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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
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Christchurch 8154
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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture  
 Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

Please state your reasons why: \_\_\_\_\_

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 2 Option 1 – Irrigation of trees or pasture in Robinsons Bay  
 5 Option 2 – Irrigation of trees or pasture at Pompeys Pillar  
 4 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area  
 1 Option 4 – Non-potable reuse in Akaroa, in combination with another option  
 3 Option 5 – Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

Please state your reasons for this ranking: *Combination of reuse in Akaroa with irrigation of trees in Robinsons Bay with due regard to local Robinsons Bay residents' concerns, seems clearly the best option in regard to environment, Ngāi Tahu concerns, and cost.*

*Continued overleaf*



**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

Drip irrigation to trees. Establishment of a discrete area of suitable native trees, although artificial, would be a very positive use of the treated wastewater resource, benefitting the whole community.

**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

Pond site 10 is clearly the most favourable location as this is close to the treatment plant and available to both Akaroa and Robinson Bay, presumably by gravity with minimal pumping required. The additional pond(s) required would be best sited in the Robinson Bay Valley, perhaps site 6, though small, or site 3 - perhaps taking into account the desirability of gravity to minimise pumping.

**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?**

If feasible, including fire storage ponds in the scheme seems a good idea to me. Availability of fire-fighting water would be a big plus. I tend to suggest a reticulated wastewater scheme in Akaroa but not additionally in the Takamātua Valley might be cheaper and more practical? but if it's feasible, why not?

**Do you have any other comments? (Please use additional paper if required):**

I really like the idea of regarding the water as a resource, rather than as a waste product simply to be disposed of in the ocean. Re-use in Akaroa is an excellent idea, with the rest irrigating a park-like area of suitable planted native trees. I really hope it can be achieved in Robinson Bay Valley with the concerns of local residents mollified. I am a local botanist and would be happy to advise on appropriate native species, although I note advice would also be available from Lincoln University.

I don't think the Pompey's Pillar option is a good one, for many reasons, not least of which is the environmental and monetary cost of pumping the water up and over the 630m crater rim.

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name John + Louise Roy

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature R. J. Roy Date 17/04/17

fold

fold

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes - I/We would like to be heard

No - I/We do not want to be heard not available at this time of year.

No anonymous submissions/feedback will be accepted.

These two attached letters to Akaroa mail  
7/4/14 voice our thoughts + opinions.

fold

fold

FREEPOST Authority No. 178

**Christchurch**  
City Council 

**Free** 



tape here

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

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- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons why:

affects the least number of people and it has been alright up to now to use the harbour. So what has changed?

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay } Not an option
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area } Not an option.
- Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons for this ranking:

(1) Mid harbour outfall is the obvious option. (2) Pompeys Pillar would affect less people than Takamātua or Robinsons Bay, which should not be considered at all. (3) Could be worth looking at



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Not supportive of this system at all for Robinsons Bay or Takamatua Valley.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Upgrading the present site as it is already in existance and will not affect property owners/ratepayers or their land values

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Not enough information to comment.

Do you have any other comments? (Please use additional paper if required):

1. The current location has been acceptable upto now so what has changed?
2. The council is biased towards Maori throughout this process, eg. holding a public meeting at Onuku marae, not a neutral venue - we chose not to attend.
3. Why is it culturally offensive to Maori and not the rest of us to have sewerage ponds or outfall in our area.
4. The majority of people coming and going from Akaroa use SH75 via Robinsons Bay & Takamatua. Is this a nice welcome to Akaroa?

Thank you for taking the time to respond. Please include your contact details over the page.

## Wasteful sites

Sir,

As a resident of Robinsons Bay I was very disappointed to read the Christchurch City Council's Akaroa Wastewater Scheme public consultation document.

The document maps out our valley with six potential pond sites, and irrigation to land owned by 14 different land owners.

I can see no specific plans amongst it all, with the possibility of dozens of different combinations of options just within our Bay, but none of them stated.

How are we supposed to know what we are to be commenting on in a submission, when no set plans have been detailed?

Takamatua is in exactly the same situation with even more potential irrigation sites named with no clarity given at all.

I hope that the option for re-use of the water back into Akaroa, treated to a high

level, to be used for public toilets and watering of public reserves will be seriously considered by the Council as a more sustainable approach.

Let's have something beneficial come out of this situation that has the potential for Akaroa's water shortages to be eliminated.

Sue Church

## Out there outfalls

Sir,

As reported in The Akaroa Mail it would appear that, since a (southern) release ('outfall') of Akaroa

effluent is 'totally unacceptable' to Onuku, such an approach 'will be taken off the table.'

But, as roadside signage indicates, a northern release is just as totally unacceptable to residents of Takamatua and Robinson's Bay.

This does not seem to take the northern option off the table.

Why should this be the case?

Is 'totally unacceptable' to one group different from 'totally unacceptable' to another?

Only, it would seem, if one group has a special, preferential status that the other does not have.

Is this true?

Any 'northern' effluent release will still end up eventually depositing chemical and hormonal matter into the Harbour - and, of course, the whole Harbour.

In contrast, a southern release far out beyond the present point will not do so - see [www.ccc.govt.nz](http://www.ccc.govt.nz), search 'Akaroa Wastewater,' and go to 'Option 6, 'Harbour Outfall,' with 'no ecological effects'.

Nor, naturally, would this endanger the land as a northern release obviously would.

Moreover, there is reason to think that such a southern release is at least as feasible as a northern one.

Is this incorrect?

If so, it is only by putting the southern release 'outfall' back 'on the table' that this can be shown.

Philip Devenish



**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Gary Irvine
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/26/2017 3:41:50 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	I am supporting the submission by Catrina Brocherie who also resides at the above address.
Preferred environment for Akaroa wastewater discharge:	
If Other, please describe and state reasons	
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Tom McGlinchy
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/26/2017 5:53:12 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 3	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 4	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 5	Other (please describe)
Option 6	Other (please describe)
Other	Irrigation at Heritage park and irrigation on Hinawai reserve.
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	Drip irrigation to trees. Less invasive than spraying and probably cheaper pumps required for lower pressure.



Do you have location preference? Why:	Storage ponds on Takamatua peninsular above lushingtons Bay
Should Council add aspirational projects to the Akaroa wastewater scheme?	Fire Storage Ponds.
Any other comments?	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

### - Received via Have Your Say -

### *Submissions close 5pm, 30 April 2017*

Full Name*:	Craig & Julie Swan
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/26/2017 6:02:15 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	
Option 1	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 2	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 5	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 6	Please select
Other	
State reasons for ranking	I believe it is culturally insensitive and poor foresight to irrigate processed sewer over populated land. It has been proven that the clay cannot absorb water during wet weather
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	neither due to productive land use loss plus water run off that will occur

Do you have location preference? Why:	no
Should Council add aspirational projects to the Akaroa wastewater scheme?	neither
Any other comments?	



## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Charlotte Osborne
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 9:18:47 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	Charlotte Osborne
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	
If Other, please describe and state reasons	<p>Treating the water so it can be re-used. The science behind recycling water is already there. It is a long term answer. Less private families effected. Irrigating on to land is not straight forward ie when flooding occurs and the sewage is not treated properly. Irrigating on to land will change the valley communities ie people will move , population numbers will decrease, would you want to buy there?</p>
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	I don't see the other options as viable.

<p>Would you be more supportive of spray irrigation of treated wastewater to pasture? Why</p>	<p>Only at Pompeys Pillar as there are less people effected.</p>
<p>Do you have location preference? Why:</p>	
<p>Should Council add aspirational projects to the Akaroa wastewater scheme?</p>	
<p>Any other comments?</p>	

# Submission form continued

## Contact details

Contact name Wayne Seats

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Wayne Seats Date 26/4/17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

fold

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City Council 

**Free** 



tape here

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Christchurch Mail Centre  
Christchurch 8154

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# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

**Please note:** Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

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- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons why:

Beneficial reuse  
water is important resource. If the treatment of sewerage is as good as chummed it should be reused in Akaroa and not dumped onto land where it is not required and could cause damage

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- 1  Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons for this ranking:

This is only sustainable option in the long term

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

No - non potable reuse in Akaroa.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Do you have any other comments? (Please use additional paper if required):

I treasure my fortnightly visits to Robinsons Bay as it takes me back to a happy childhood growing up in rural NZ. It is kiwiana that is now at risk of being destroyed. My walks up Robinsons Bay Valley will be destroyed by views of holding ponds and insects (see Press 24.4.17 & National Radio 24.4.17). Our friends live in Takamātua and I am concerned about the way this process has evolved. I see it as 'bullying by the Council' (ie we want to dump sewage on your land and if you don't agree we will compulsory acquire it). NZ brand of 'clean and green' is at risk. I fully support the submissions of friends of Banks Peninsula and Robinsons Bay Residents and Ratepayers Association.

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Whā J. M. Wilson

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature] Date 26-4-2017

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

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FREEPOST Authority No.178

**Christchurch**  
City Council 

**Free**  

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

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**RECEIVED**  
26 APR 2017  
Akaroa Service Centre  
Chch City Council



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## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** Does not affect any private properties.

Does not spoil the unique landscape of Akaroa and surrounding areas. I don't see a problem if the water is treated to a high standard and then discharged into the middle of the harbour.

**Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).**

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- Other (please describe)

**Please state your reasons for this ranking:**

As above.

Continued overleaf

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**Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:**

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**Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:**

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**Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?**

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**Do you have any other comments? (Please use additional paper if required):**

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# Submission form continued

726

## Contact details

Contact name IVAN BURROWES

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Ivan Burrowes Date 21/4/17

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Yes - I/We would like to be heard

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FREEPOST Authority No.178



810-15 24 APR 17 CARRIED BY NEW ZEALAND POST



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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154



# Submission form

haveyoursay

[www.ccc.govt.nz/haveyoursay](http://www.ccc.govt.nz/haveyoursay)

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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: Prefer this option but needs to meet

5g/m<sup>3</sup> total N limit. Not dependent on potential problems of storms saturating land in Robinsons Bay & other sites. Overcoming complaints from neighbouring properties. Relatively easy to increase treatment capacity as load increases and effluent standards increase.

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 2 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 5 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 4 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 3 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking: major factor re preference is being for harbour outfall. would like to see non-potable reuse in Akaroa as that will offset use of potable water in long term.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

more supportive of trees as long as there is adequate area for irrigation & storage. Must be no encroachment of effluent onto neighbours properties or into watercourse. Pasture okay provided enough but likely restrictions when <sup>soil</sup> at field capacity due to run off and grazing restrictions

Do you have a preference for the location of reclaimed water storage pond(s)?

Please state your reasons why:

No provide safe & secure.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

No

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include you contact details over the page.

# Submission form continued

727

## Contact details

Contact name TOMO VOICE  
Organisation name (if representing) \_\_\_\_\_  
Contact address \_\_\_\_\_  
\_\_\_\_\_  
Postcode \_\_\_\_\_  
Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_  
Email (if applicable) \_\_\_\_\_  
Signature [Signature] Date 22/4/17

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**  
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- Yes - I/We would like to be heard
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FREEPOST Authority No.178



810-15 24 APR 17 CARRIED BY NEW ZEALAND POST  
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## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture  
 Disposal via a new outfall pipeline to the mid-harbour  
 Other (please describe)

Please state your reasons why:

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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 Other (please describe)

Please state your reasons for this ranking:

Continued overleaf

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip irrigation to trees.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

—

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

NO

Do you have any other comments? (Please use additional paper if required):

—

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name Simon Tipping

Organisation name (if representing) —

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) —

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature]

Date 8/4/17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

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FREEPOST Authority No.178



810-15 10 APR 17 CARRIED BY NEW ZEALAND POST <<<

>>> GOT A QUESTION? VISIT **Free** POST NZ/HELP <<



Attention: Hearings Team  
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Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
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## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** *The waste water, we are told, will be very safe - almost good enough to drink. So the harbour, with salt water, tides + currents, is the best answer.*

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- Other (please describe)

**Please state your reasons for this ranking:** *Harbour as above. Pompeys Pillar because it will upset the smallest no of people. No one wants this in their backyard.*

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Drip, No chance of airborne dispersal.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

No.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Not sure.

Do you have any other comments? (Please use additional paper if required):

It would have been helpful to have some scientific evidence about the exact nature of the waste water. e.g. how safe is it? does it contain traces of antibiotics etc. could it carry disease?

I am aware of the cultural opposition of Ngāi Tahu etc to a harbour outfall. Nonetheless - we have been living with the existing outfall for many years, and I don't feel there has been much opposition, or any demonstrated downside.

Hence, I have voted for harbour outfall. We all have 'cultural' reasons for not wanting this in our backyard. The harbour option is the least offensive.

Thank you for taking the time to respond. Please include your contact details over the page.

## Submission form continued

## Contact details

Contact name BERNARD RENNELL

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date 8-4-17**Do you wish to present your submission at the hearing? Please tick one of the boxes below:***Please note that deputations will not be permitted at the meeting where the Council makes its decision.* Yes - I/We would like to be heard No - I/We do not want to be heard

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Christchurch  
City Council 810-15 10 APR 17 CARRIED BY NEW ZEALAND POST <<  
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haveyoursay

www.ccc.govt.nz/haveyoursay

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Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: I BELIEVE THIS IS THE MOST EFFICIENT AND SAFEST OPTION BUT SHOULD BE COMBINED WITH NON POTABLE REUSE IN AKAROA

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 2 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

AS ABOVE

Continued overleaf

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

NO

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

OLD COACH ROAD SITE  
NON DISRUPTIVE TO RESIDENTS

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

NO COMMENT

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

## Contact details

Contact name Joyce and Murray Walker

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature J.W. Walker Date 24-4-17

fold

fold

**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes - I/We would like to be heard

No - ~~I~~We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

FREEPOST Authority No.178

**Christchurch**  
City Council 

**Free** 

Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

haveyoursay

www.ccc.govt.nz/haveyoursay

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

### Submissions are public information

Please note: Your full name, address and telephone number are required because this information is important for transparency, and for Christchurch City Council's decision-making process. It also means we can update you on progress. Ideally we would like your email address too, if you have one, as this makes it easier for us to stay in touch with you throughout the engagement process.

Your submission, including your name and contact details, will be made available to the decision-making body, for example the Community Board, Committee and/or Council, to help them make an informed decision.

Submissions, with names but without contact details, are made available online once the Board, Committee or Council agenda goes live on the Council website.

If requested, Council is legally required to make all written and/or electronic submissions available to the public, including the name and contact details of the submitter, subject to the provisions of the Local Government Official Information and Meetings Act 1987.

If you believe there are compelling reasons why your contact details and/or submission should be kept confidential, please contact the Council's Engagement Manager on (03) 941 8999 or 0800 800 169 (Banks Peninsula residents).

### How to give us your feedback

You can use this submission form or you can provide your feedback in a number of ways:

- **Online:** You may enter your submission using the online form provided on the Council's website at [ccc.govt.nz/haveyoursay](http://ccc.govt.nz/haveyoursay)
- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: *Lower cost compared with most other options, less disruption and distress to landowners, less likelihood of problems in times of heavy rain.*

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 2 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 3 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 1 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking: 1 as above.

2 Costly at first, but less likely to require so much maintenance as that required for areas in Takamātua + Robinsons Bay.

3 Seems ideal but stated as "only partial solution" continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Long term irrigation to pasture will require ongoing maintenance due to animal damage to pipes and sprays. Also can have long term effects on health of pasture and animals. Effect on human health and livelihood still doubtful.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Great care needed where to place these ponds due to instability of land. Site No. 7 right on the main road would not be a good look for tourists, especially those from cruise ships passing by up high in their buses. Akaroa is publicised as having a beautiful natural environment.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

These would appear to be additionally costly.

Do you have any other comments? (Please use additional paper if required):

Little consideration seems to have been given to the stress put on residents of Takamātua & Robinsons Bay with the threat of losing some of their land. Loss of land, or part thereof, would be devastating to people who have settled or retired here for a lifestyle in a beautiful environment which would, of course, be greatly devalued with wastewater disposal on or nearby. Also not enough study has been given to the land where it is proposed to put in irrigation disposal. In our own case (Takamātua Valley) the land marked for spray and drip irrigation is prone to being under water due to the creek flooding, also just from heavy rain even in summer months. This causes run off to the stream and inevitably out to the harbour!!!

Thank you for taking the time to respond. Please include your contact details over the page.



21 Takamatus Valley Road.





**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -  
Submissions close 5pm, 30 April 2017**

Full Name*:	stewart barnett
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 10:20:38 AM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Discharge should be to sea not to harbour The land options are short term measures do not address the long term nature of the Akaroa discharge and destroys the local bays . The harbour is not an alternative site due to recreational /fishing expectations. Discharge to a deep sea outlet meets future requirements
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated	no

wastewater to pasture? Why	
Do you have location preference? Why:	no
Should Council add aspirational projects to the Akaroa wastewater scheme?	no fix the main problem
Any other comments?	

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -  
Submissions close 5pm, 30 April 2017**

Full Name*:	Kirsten Williams-Hitch
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 10:58:24 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	Kirsten Williams-Hitch
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	



Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -  
Submissions close 5pm, 30 April 2017**

Full Name*:	Toni Williams
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 10:59:37 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	



## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Mafalda Gehrig
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 12:26:21 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 5	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 6	Please select
Other	
State reasons for ranking	It would make sense to reuse the water in Akaroa - the rest of the ranking is random
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Hollie Hollander
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 3:26:02 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	Hollie Hollander
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Irrigation of reclaimed water to trees or pasture
If Other, please describe and state reasons	
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 3	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 4	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	



Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

### - Received via Have Your Say -

### *Submissions close 5pm, 30 April 2017*

Full Name*:	Dianne Carson
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 8:58:47 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	non potable reuse in Akaroa  Because I consider this a beneficial re-use of the water
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	Spray irrigation of wastewater to pasture is totally unacceptable on valley floors of Robinsons Bay and Takamatua due to close proximity of homes. Pompeys Pillar could use irrigation beneficially for farm use. Drip irrigation to trees is risky on BP due to soil instability and poorly draining loess soils often with compacted pans overlaying bedrock, and high rainfall eg Cyclone Debbie and Cyclone Cook in April 2017 with challenging and difficult terrain. Not enough detailed or technical

	information given as wastewater to native trees has not been done in NZ before and native bush grows rapidly on the Peninsula without intervention.
Do you have location preference? Why:	Pond site 10 because it is adjacent to Treatment Plant for easy maintenance and adjacent to Akaroa for reuse. Can be concealed.
Should Council add aspirational projects to the Akaroa wastewater scheme?	Beautiful Akaroa as a top tourist destination for NZ should be treated to the very best solution to wastewater problems and could be an example of environmental stewardship for other places to follow if the FOBP submission was adopted. Surrounding valley
Any other comments?	<p>I support the Friends of Banks Peninsula submission for beneficial reuse of wastewater to Akaroa.</p> <p>I do not support wastewater disposal in Robinsons Bay.</p> <p>The lack of a definite plan for Robinsons Bay, with 6 possible pond sites and 14 affected landowners has hugely impacted many people's lives. I have lived in Robinsons Bay since 1980 and have major concerns about the proposed project and it's many negative implications.</p> <p>On the CCC proposed plans for Robinsons Bay there are three pond sites within close range of my property with irrigation and tree plantings on every boundary as well as on part of the property. We could be surrounded, with totally inadequate setbacks within close proximity to houses, roads, streams, water supplies, and existing areas of food production.</p> <p>Particular areas of concern are that this is a very narrow valley with a large rugged catchment area and multiple streams that end up in the Robinsons Bay river on the flood plain. With property on the middle of the Valley floor any wastewater project above or below us would impact our house and lifestyle. The increased risk of the Robinsons Bay river and contributing streams flooding is of major concern if continual amounts of water are applied to this landscape. As has been pointed out to Senior Technicians at CCC this river, on our boundary, in flood, breaks banks and inundates paddocks to run down Robinsons Bay Road preventing access to the Valley, and compromising 2 houses near State Highway 75. Concerns are that flood protection and re-contouring of totally inadequate roadside drainage and harbour storm-water outlets has not been factored into the budget.</p> <p>As residents we would continue to be affected during and after this proposed project because of the fragile infrastructure and isolation of Banks Peninsula and question the CCC on plans to deal with the occurrence and effects of earthquakes, tsunamis, fire, gales, frost, heavy snow, power cuts, fallen trees, floods and slips frequently leading to road closures.</p> <p>With local knowledge we have serious concerns about the capacity of the local soils to absorb the water and concerns for any scheme if severe wet weather events occur. Geotechnical results indicate evidence of unsuitable soils for application of large amounts of wastewater. Fragipans were found on the valley floor and on exposed creek banks on my property. See Principle engineer of ecoEng Andrew Dakers Memorandum to 'Friends of Banks Peninsula' Page 2 'Banks Peninsula soils, topography/geology, land use, catchment configurations and settlement structures make year round irrigation of treated wastewater a high geotech, public health, environmental, social/cultural and economic risk. There are no similar long-standing large scale year-round land based wastewater irrigation system in NZ to model options 1 to 3 by."</p>



**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	maryline suchley
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 10:37:15 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 6	Please select
Other	
State reasons for ranking	Best option
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	No.
Any other comments?	

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Gary & Joanne Willis
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/27/2017 11:43:25 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	2
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	Non-potable reuse in Akaroa It's reused there
Option 1	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	It's better for future planning
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	No to both. Prefer reuse where it's needed instead of disposal.



Do you have location preference? Why:	No preference as long as it's close to Akaroa and not Robinsons Bay or Takamatua
Should Council add aspirational projects to the Akaroa wastewater scheme?	No. Council says it has no funds for extras. Provide the best option for the future without it impactacting valley communities.
Any other comments?	The council needs to do whats right and not be driven by budgets. We are long term uses of Robinsons Bay through family connections

## CHRISTCHURCH CITY COUNCIL Akaroa Wastewater Scheme

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Tom Brennan
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/28/2017 1:50:41 AM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	
Option 1	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 2	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 3	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 4	Please select
Option 5	Please select
Option 6	Please select
Other	
State reasons for ranking	<ol style="list-style-type: none"> <li>1. Pompey Pillar minimal disruption to residents.</li> <li>2. This options minimizes the amount of water to be dealt with.</li> <li>3. Water purification systems are better now than before...this option allows tidal wash out and removal...unlike Robinsons Bay and Takamatua options at head of bay.</li> </ol>
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	Neither..the soil type and rainfall of Banks Peninsula do not suit this design. Will end up wit water-logged soil prone to slippage.

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	Takamatua Valley usually floods during the winter. It is not suitable for the possible planned water dispersal. Lat year's rainfall was in the range of 600-700mm, so the planned dispersal would potentially double this. Unacceptable and unwise.



**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

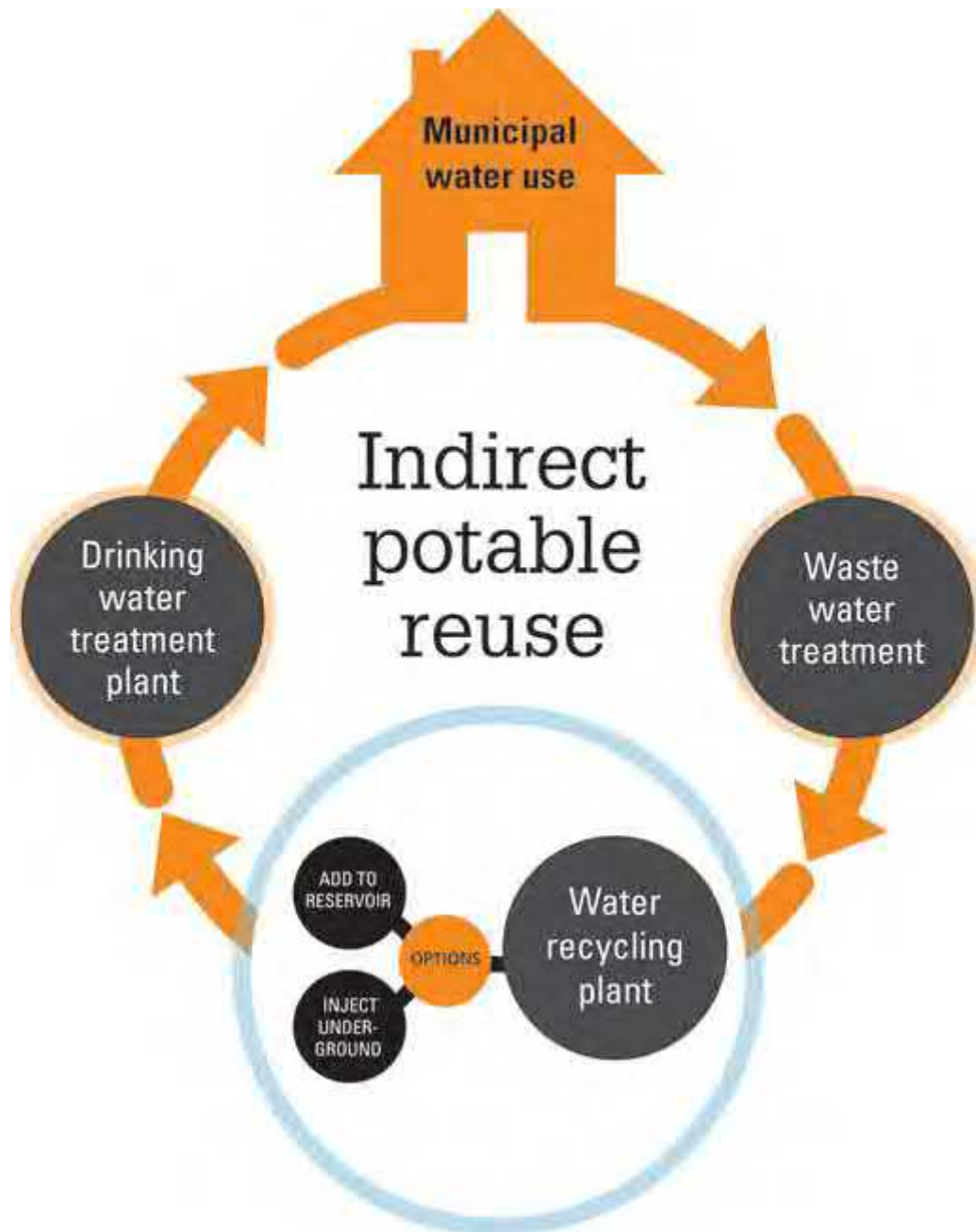
Full Name*:	John Baker
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/28/2017 10:11:34 AM
Would you like to attend the hearings for this consultation?	Yes
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Other
If Other, please describe and state reasons	RECHARGING OF AKAROA AQUIFERS It is a more natural, safer, sustainable and culturally acceptable method.
Option 1	Other (please describe)
Option 2	Other (please describe)
Option 3	Other (please describe)
Option 4	Other (please describe)
Option 5	Other (please describe)
Option 6	Other (please describe)
Other	Sewage Collection as normal, sewage treatment as normal with some added technology, recharging Akaroa Aquifers and water reticulation via the current system.
State reasons for ranking	It is a more natural, safer, sustainable and culturally acceptable method than any of the options proposed by CCC
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	NO

Do you have location preference? Why:	NO
Should Council add aspirational projects to the Akaroa wastewater scheme?	No
Any other comments?	Refer to attached word doc file

**AKAROA SEWAGE AND WASTEWATER  
BENEFICIAL RECYCLING PROJECT  
SUBMISSION TO CHRISTCHURCH CITY COUNCIL**

APRIL 26 2017

John Baker



**THE PERFECT CIRCLE FROM MOTHER EARTH AND BACK  
TO MOTHER EARTH**

**AKAROA HARBOUR HAS A CLEAN GREEN PURE AND  
SUSTAINABLE NATURAL WATER SUPPLY  
REPLACE WHAT WE TAKE FROM MOTHER EARTH  
NO EFFLUENTS SENT TO OUR FOOD SOURCES  
NO EFFLUENTS SENT TO OUR LAND SURFACES**



**AKAROA SEWAGE AND WASTEWATER  
BENEFICIAL RECYCLING PROJECT  
SUBMISSION TO CCC**

APRIL 26 2017

**Our Akaroa Harbour community needs are simple:**

- 1. We need more drinking water. (Akaroa currently has seasonal water restrictions)**
- 2. We need to convince the World Public (not just Akaroa) that our water is “Natural” and “Pure”. Those two words are “very” important and have distinct meanings.**
- 3. We need to make our Sewage “disappear” in the most “Cost Effective” and environmentally friendly manner possible.**
- 4. We need to cease dumping any waste products directly or indirectly into our water ways or onto our land surfaces to convince Kiwis and the world that we truly are “Clean and Green” and find a natural recycling process that we can be proud of.**

**The solution for Akaroa is simple:**

- 1. Collect sewage and waste waters. (Via existing sewer pipes)**
- 2. Primary filtration via a new collection and pumping station to be built at the North end of Akaroa.**
- 3. Pump the primary filtered water to a new processing plant to be built on Old Coach Road. The new plant will process the water to the standard required for Aquifer Recharging.**
- 4. Pump the processed water to “Recharge the Natural Aquifer of water held by the Basaltic Rock formation” that feeds our “Natural Streams and Springs”. This technology is named “MAR” Managed Aquifer Recharging. Sometimes named as Managed Artificial Recharging. MAR is already being practised in NZ and we have many good reference sites including Canterbury.**
- 5. Collect and pump the “Natural Water” as usual from the traditional Springs and Streams to the existing water treatment reservoir on L’Aube Hill for final sterilization and polishing into Pure and Natural Water.**
- 6. Reticulate the “Pure and Natural” resource water through the existing domestic water system without restrictions.**

## **BACKGROUND**

**The Technology to convert sewage to potable water has been around since the sixties in major Global Cities and regions. The technology has increased dramatically since then and there are many examples of successfully operating systems around the Globe that perform more efficiently with much less capital and running costs than the original systems.**

**We are now asking “If the answer is so simple and cost effective then why are Kiwis so insistent on ignoring the technology?” The answer is incredibly simple!! We don’t like the “thought” of drinking recycled sewage. We don’t like “knowing” that the water has been recycled regardless of the fact that there are millions of people around the Globe in places like London, New York, San Diego, Orange County and Namibia et al that have been drinking recycled sewage for decades without any issues. Ignorance is bliss.**

**The “Good News” for Akaroa residents is that we now have the technology that can make the “bad thoughts” disappear and achieve all of our “Needs”. The answer is “Managed Aquifer Recharging of Mother Earth”! MARME!! Perfect!!**

## **BENEFITS**

- 1. If we process all our waste water products back into our Aquifers after they have been “processed”, we constantly “stock up” the existing water volume that is naturally stored there. Instead of just taking the water out and eventually wasting and “dumping” it we can return the water to where it came from in a complete “Cycle” preventing natural springs from drying up. As a bonus we could even see more springs pop up? There will be no more water restrictions and we can future proof population growth in the area.**
- 2. If we drink water that is coming from our natural aquifers in a natural and pure form it does not create any bad thoughts. Instead we will be proud of how we manage our water resources and we will be happy to tell the World about it.**
- 3. We do not need to build an expensive secondary water reticulation system called “Pink Pipes” that return “impure water” to our land surfaces for irrigation or effluent disposal.**
- 4. We do not have to “compulsory buy” massive areas of private land to irrigate with “impure water” close to existing residents homes.**
- 5. We do not have to endure massive property “devaluations” due to the CCC proposals.**
- 6. We do not have to discharge “anything” impure into our long harbour or the offshore seawaters ever again!!**
- 7. Akaroa Harbour residents and property owners will at last be able to keep an “honest face” when they tell the world that we are “clean and green”. The CCC health department water test results will prove that we are in fact “Clean Green Natural and Pure”!!**
- 8. The tourism benefits are endless. Akaroa can lead NZ into a new era just like it did being the first Town in NZ to produce “Free Electricity” from hydro power!!!!**
- 9. The health benefits are huge. We can finally take Shellfish and Seafoods with total confidence from our harbour, and our kids can swim in the sea 365 days of the year. Our sea life Dolphins, Seals, Penguins and Birds et al will have more chance of growing with us into the future.**
- 10. Our Maori Iwi will breathe a huge sigh of relief when they realise that Pakeha are finally listening to what they have been saying about fouling local food sources with excrement effluent for one hundred and seventy seven years and disrespecting their Tapu (Takapuneke) site close to and including Onuku.**

## **PROPOSED CCC ACTION PLAN**

- **I totally reject any of the Waste Water proposals submitted by CCC to date.**
- **I “partially” endorse the submission of Friends of Banks Peninsula in that they have recognised the need to re-use any waste products. However I believe that we should be adopting proven technologies that will provide us with a more elegant and culturally acceptable solution as described above.**
- **CCC Councillors, Engineers and their Consultants must adopt a positive “Mind Set” that follows the basic principles of recycling. We cannot continue to take and not give back. The days of dumping effluents are over! Our old habits and stupid beliefs are actually killing us and our planet. It is time for change!**
- **CCC must rethink and delay any confirmation of the current proposals that are on the table until this submission research has been totally exhausted and the feasibility being confirmed.**
- **Akaroa needs Hydrologist and Geologist Specialists Engineers to assess the feasibility of this submission. We have those people here in Canterbury. They are specialists and are already “Recharging” the Canterbury Plains in much the same manner this submission outlines. We need to get those people into Akaroa with a positive mind set that will find the best answers and best places for recharging. It may be that we have to build “Artificial Recharging Sites” in the form of artificial wetlands or drilled holes that will connect with the Volcanic sub strata. Be aware that an “Aquifer” is any sub surface material that will absorb and store water like a sponge. Our natural Akaroa Volcanic Aquifers have been recharging themselves for thousands of years. Basalt is an incredibly hard rock but because of the way it is formed from molten rock being hit by cold air and cold water on eruption it is “fractured” and “layered” like a sponge. That sponge has been providing the water for Akaroa ever since Akaroa Harbour volcanically burst into life. We only need to find the best place/s to “recharge” and replace the water that what we are taking.**
- **We need to find the best supplier/s of the technology required. There are many proficient companies in places like USA, Germany and Australia. The Australians may yet be leading the world with the technology as they really need to adopt the concept of recharging fast! Global warming will accelerate those needs in many countries. The water technology is growing at an exponential rate. The Australian Government has given one leading edge company the green light and bag full of money to go the next step up and produce results by 2019 which are based on “Graphene Filtration”. Graphene filtration has recently been proven to “desalinate seawater”. Regardless of which system is adopted for Akaroa in 2017, it must be capable of being easily upgradeable to all new future technologies as they come on stream. If Akaroa recycles all of its waste water and still runs dry in the future, we could yet be pumping sea water (through Graphene) to supplement the natural cycle.**
- **I would like the opportunity to be heard at any hearings.**



## **Acknowledgements:--**

**To: Ngai Tahu and Onuku Iwi for giving me crystal clear inspiration and motivation. They opened my eyes to realise that “Never before have so many people been so deaf and so stupidly dumb”. Thank you for the wake up call!! Please accept my personal apologies for what Pakeha have done to our Akaroa Harbour. I’m so sorry!! I truly hope the CCC can realise that they also need to formally apologise for what happened in Takapuneke in 1960 when the existing sewage treatment system was built.**

**To: Friends of Banks Peninsula especially Suky Thompson. Your efforts todate have been utterly remarkable. They gave me the traction, inspiration and energy to continue. Thank you!!**

## **SUPPORT LINKS**

**[http://www.golder.com/en/modules.php?name=News&sp\\_id=1199&page\\_id=208](http://www.golder.com/en/modules.php?name=News&sp_id=1199&page_id=208)**

**Golder & Associates are local specialists in environmental water engineering.**

**<https://www.theguardian.com/sustainable-business/2015/jan/20/turning-human-waste-into-drinking-water>**

**Bill Gates funds new technology to convert sewage into drinking water for 110,000 person community with no lost energy. Cost US\$ 1.5m.**

**<http://blogs.ei.columbia.edu/2011/04/04/from-wastewater-to-drinking-water/>**

**2011 San Diego system: Sewage to drinking water 1,000,000 gallons/day (3,875,000 litres).**

**Current population 1.4m people. US\$ 11.90m**

**<http://mena-water.com/home/water-solutions/>**

**German manufacturer of “Loo to Tap” water recycling systems in a shipping container!!**

**<http://www.janickibioenergy.com/news/press/>**

**Janicki Bioenergy Ltd producers of Omniprocessor sewage to drinking water black boxes.**

**2017 News reports on other applications of interest to NZ mainly farming/dairy.**

**<https://www.ocwd.com/gwrs/>**

**Orange County Water System USA. Recycles water and introduces it back into the aquifers for later pumping to the water reticulation system.**

**<https://water.usgs.gov/ogw/aquiferbasics/volcan.html>**

**Good examples of recharging Volcanic and other “Rock” based aquifers.**

**<https://www.friendsofbp.org.nz/>**

**Akaroa Harbour and Banks Peninsula residents group.**

**<http://www.cleanteq.com/>**

**Leading Australian manufacturer of the latest water recycling technology.**

## **SUBMISSION PRESENTED BY:-**

**John Baker**

**Akaroa Resident**

# Submission form continued

## Contact details

Contact name Silke Lassen

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_

Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature \_\_\_\_\_

Date 26.4.17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes – I/We would like to be heard

No – I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

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FREEPOST Authority No.178



Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

tape here



# Submission form

### PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

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- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Christchurch City Council  
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Consultation closes on Sunday 30 April 2017

### Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Please clean & reuse in Akaroa

### Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- 5 Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- 5 Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 1 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 2 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

(in Akaroa)  
Please clean & reuse as much water as you can & the emergency plan should be option to dispose water in Harbour as proposed by the Friends of Banks Peninsula



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Not Taranautua or Robinsons Bay

Site as proclaimed by Friends of Akaroa or find new site away from people / residences

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Fire Storage Ponds seems like a good idea for the water restriction time

Do you have any other comments? (Please use additional paper if required):

I think there are ways to treat the wastewater to a 'clean standard' and knowing that it will get only hotter & dryer in summer it would be good, to use as much as possible to keep the water restrictions to a minimum!  
And now knowing that it is actually possible to treat water to a high standard I highly recommend that option!

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Benoit NAVARON

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Signature] Date \_\_\_\_\_

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FREEPOST Authority No.178

**Christchurch**  
City Council 

**Free** 



Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154





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Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
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Consultation closes on Sunday 30 April 2017

Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why: *beneficial reuse in AKAROA*

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking: *For me that's really important to reuse our water. As an environmentalist I cannot conceive our world is using so much water and I think AKAROA can make a first step.*

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Neither of this options for me are good. As I would prefer this water to be reuse in AKAROA.  
But if it have to come down to one choice I would prefer a drip irrigation to trees.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Site pond 10

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Botanical garden / communal veggies garden / Fire pond / 1

Do you have any other comments? (Please use additional paper if required):

Thank you for taking the time to respond. Please include you contact details over the page.

# Submission form continued

### Contact details

Contact name Frank Anderson

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature] Date 25-4-17

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>>> GOT A QUESTION? VISIT WWW.NZPOST.CO.NZ/HELP <<<



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Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here



# Submission form

haveyoursay

[www.ccc.govt.nz/haveyoursay](http://www.ccc.govt.nz/haveyoursay)

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Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Re-reticulated back to Akaroa for garden watering & boat washing, & public toilets.

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- Other (please describe)

Please state your reasons for this ranking:

There is always a shortage of water in Akaroa in summer for the above useage especially with Cruise ship visits.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Definitely not to pasture  
& not to trees in farming area.

Do not want it near any springs &  
streams, or any water ways by seepage.

Do you have a preference for the location of reclaimed water storage pond(s)?  
Please state your reasons why:

Childrens Bay - cost effective  
to reuse in Akaroa.

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Yes. For fire storage ponds, Re-use for  
Public toilets, Garden watering,  
Boat washing.

Do you have any other comments? (Please use additional paper if required):

Waste water storage ponds create  
an environment for insects -  
mosquitos, geese, & will have adverse smell.

\* The presence of these ponds <sup>would</sup> devalue  
neighbouring property

Thank you for taking the time to respond. Please include your contact details over the page.

**Contact Details**

Contact name: Susan Bruce

Organisation name (if representing):

Contact address:

Postcode:

Phone number (day):

Phone number (evening):

Email (if applicable):

Signature: Susan H. Bruce

Date: 25/4/17

Do you wish to present your submission at the hearing? Please tick one of the boxes below:

**Please note that deputations will not be permitted at the meeting where the Council makes its decision.**

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions feedback will be accepted



## SUBMISSION ON THE AKAROA RECLAIMED WATER BENEFICIAL REUSE, TREATMENT AND DISPOSAL OPTIONS PAPER

***(Note this submission is based on the CCC submission template - you can just use the CCC template if you prefer)***

### PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

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Consultation closes on Sunday 30 April 2017

## SUBMISSION

### Introduction

The Christchurch City Council has put forward five options for consideration relating to the beneficial reuse, treatment or disposal of reclaimed land from a new wastewater treatment plant planned for Akaroa.

As a resident of the Takamatua area I have a key interest in this project and the options put forward for consideration.

A number of the options under consideration could have an impact on residents of the Takamatua community and the surrounding environment. It is important that the Christchurch City Council makes any decision in a fair manner. In this situation this means



that any inequity of one community receiving the advantage of this project (Akaroa) while a separate community (Takamatua) bears the impacts of the project must be a significant consideration influencing any final decision on what is the most appropriate option.

As a resident of the Takamatua Community I/we will have to live closely with the consequence of a number of the options under consideration. This is a project which will have long term consequences for my/our community.

**Detailed Submission Matters:**

Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

Irrigation of reclaimed water to trees or pasture

Disposal via a new outfall pipeline to the mid-harbour

Other (please describe) Either Reverse Osmosis or Poo to drinking water via "Mother Earth"

Please state your reasons why:

I feel it is imperative that we start looking at this issue as a resource rather than a problem.

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 being your least preferred option (please note the options below are in no particular order).

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Option 5 - Disposal via a new outfall pipeline to the mid-harbour

1 Other (please describe) As above - Reverse Osmosis or Poo to drinking water via Mother Earth

Please state your reasons for this ranking:

Must be used as a resource as water is always in short supply in Akaroa especially in the summer.

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Do you have a preference for the location of reclaimed water storage ponds(s)? Please state your reasons why:

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, provision a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Do you have any other comments? (Please use additional paper if required):

# Submission form continued

## Contact details

Contact name

Trevor L McConchie

Organisation name (if representing)

Contact address

Postcode

Phone number (day)

Phone number (evening)

Email (if applicable)

Signature

T McConchie

Date

26.04.2017

## Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

- Yes – I/We would like to be heard
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FREEPOST Authority No.178

Christchurch  
City Council 

Free



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tape here

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# Submission form

haveyoursay

www.ccc.govt.nz/haveyoursay

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- **By email:** [akaroawwproject@ccc.govt.nz](mailto:akaroawwproject@ccc.govt.nz)  
Please make sure your full name and address is included with your submission.
- **By mail (no stamp required):**  
Freepost 178  
Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154
- **By hand delivery to:** Civic Offices, 53 Hereford Street, Christchurch or at the drop-in sessions

Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe) *Beneficial reuse. Option 4*

### Please state your reasons why:

*water is important resource and should be reused not dispersed onto land where it is not required*

### Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

### Please state your reasons for this ranking:

*This is only sustainable option*

Continued overleaf

Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

No - non-potable reuse  
in Akaroa.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

Do you have any other comments? (Please use additional paper if required):

The bays of the inner harbour are as magnificent as Milford Sound to me.

Thank you for taking the time to respond. Please include your contact details over the page.



# Submission form continued

### Contact details

Contact name Carolyn Tierksell.

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature [Handwritten Signature] Date \_\_\_\_\_

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

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FREEPOST Authority No.178



810-17 26 APR 17 CARRIED BY NEW ZEALAND POST <<  
**Free**   
>>> GOT A QUESTION? VISIT WWW.NZPOST.CO.NZ/HELP <<

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Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

tape here

tape here



# Submission form

### PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour

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Consultation closes on Sunday 30 April 2017

### Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** Re-using the water in Akaroa, solves the 2 problems we have with our water. 1: not enough in times of high demand; and 2: our wastewater disposal dilemma.

### Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- 3 Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- 1 Option 4 – Non-potable reuse in Akaroa, in combination with another option
- 2 Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons for this ranking:** Option 4 solves Akaroa's problems. (maybe along with a suitable new (smaller maybe) outfall pipeline.) The 2 options left out both involve two populated valleys; and the people living there should not have to solve the problems in Akaroa. Leave the two valleys alone. Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

Yes, to Buropeys Pillar only. This option does not upset anyone, and we are all in this together. We are one Banks Peninsula community  
No to Robinsons Bay and Takamatua.

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

Water storage ponds are needed in many places on the Peninsula; but not near residential areas (Bromley problems are in the news - lets not have another Bromley.)

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamatua Valley)? If so, which ones do you support and why? ① ← are these 2 options ①② just one?

We could do with more fire storage ponds all over the Peninsula.

Do you have any other comments? (Please use additional paper if required):

My strong preference is for a "purple pipe" system to flush public toilets and to be used for parks and reserves; also for use at the boat ramps and boat storage areas to wash boats down. The longer term aim to install "purple pipes" for household toilet and garden watering is a great use. If this happened, Akaroa residents + visitors will be dealing with their own water problems; not sending our problems to Robinsons Bay or Takamatua. The people living there are our friends, and friends dont pass their problems to their friends to solve. Compulsory purchase is an abhorrent action.

Thank you for taking the time to respond. Please include your contact details over the page.

# Submission form continued

## Contact details

Contact name Julie Newton

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature JENewton Date 24/4/17

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**Do you wish to present your submission at the hearing? Please tick one of the boxes below:**

*Please note that deputations will not be permitted at the meeting where the Council makes its decision.*

Yes - I/We would like to be heard

No - I/We do not want to be heard

No anonymous submissions/feedback will be accepted.

fold

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FREEPOST Authority No. 178

**Christchurch**  
City Council 



Attention: Hearings Team  
Akaroa Wastewater Scheme  
Christchurch City Council  
PO Box 73016  
Christchurch Mail Centre  
Christchurch 8154

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tape here



# Submission form

## PLEASE READ BEFORE COMPLETING YOUR SUBMISSION

The Christchurch City Council is seeking your feedback on the five proposed options for the Akaroa wastewater project:

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable re-use in Akaroa, in combination with another option
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Please make sure your full name and address is included with your submission.
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Christchurch City Council  
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Consultation closes on Sunday 30 April 2017

## Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

**Please state your reasons why:** I support the Council's original preference. As the new pipeline extends further out to sea than previously, I don't see a problem.

## Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

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- Other (please describe)

**Please state your reasons for this ranking:** My preferred option is (5) but I support grey water being used where possible in the town (especially in drought season) Watering of green spaces + maybe public toilets

Continued overleaf



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Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

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Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

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Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

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Do you have any other comments? (Please use additional paper if required):

I don't think we can beat nature! So who can see to the future - draughts and flooding etc could compromise the options put forward for Robinson's Bay, and Takamātua. Not to mention the expense! Put the money saved (by using option 5) towards the Hospital!!

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# Submission form continued

### Contact details

Contact name Stephen Carswell

Organisation name (if representing) \_\_\_\_\_

Contact address \_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Phone number (day) \_\_\_\_\_ Phone number (evening) \_\_\_\_\_

Email (if applicable) \_\_\_\_\_

Signature Stephen Carswell Date 19-4-17

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### Do you wish to present your submission at the hearing? Please tick one of the boxes below:

Please note that deputations will not be permitted at the meeting where the Council makes its decision.

Yes - I/We would like to be heard

No - I/We do not want to be heard

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Consultation closes on Sunday 30 April 2017

### Fundamentally, what environment would you prefer Akaroa wastewater is discharged into?

- Irrigation of reclaimed water to trees or pasture
- Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons why:

Start some potable use  
in Akaroa

Please rate the options listed below with a number according to your preference, with 1 being your most preferred option and 5 your least preferred option (please note the options below are in no particular order).

- Option 1 – Irrigation of trees or pasture in Robinsons Bay
- Option 2 – Irrigation of trees or pasture at Pompeys Pillar
- Option 3 – Irrigation of trees or pasture in Takamātua Valley, in combination with another area
- Option 4 – Non-potable reuse in Akaroa, in combination with another option
- Option 5 – Disposal via a new outfall pipeline to the mid-harbour
- Other (please describe)

Please state your reasons for this ranking:

Pompeys Pillar has room for any expansion in future years, however if new technology becomes or is available making the water potable; I would support this.

Continued overleaf



Would you be more supportive of spray irrigation of treated wastewater to pasture or drip irrigation to trees? Please state your reasons why:

I would support such at Pompeys Pillar if this is the only option

Do you have a preference for the location of reclaimed water storage pond(s)? Please state your reasons why:

If this is to happen Pompeys Pillar is the only option

Do you think the Council should add aspirational projects to the Akaroa wastewater scheme (e.g. fire storage ponds, providing a reticulated wastewater scheme in Takamātua Valley)? If so, which ones do you support and why?

N/A

Do you have any other comments? (Please use additional paper if required):

If we have to go to ponds and irrigation, Pompeys Pillar is the only location suitable.

However if there is new technology that can result in fully potable water for Akaroa from the waste water I would support it in favour of all else.

Thank you for taking the time to respond. Please include your contact details over the page.

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -**

***Submissions close 5pm, 30 April 2017***

Full Name*:	Frank shaw
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/28/2017 9:34:01 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	f d shaw
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	
Option 1	Please select
Option 2	Please select
Option 3	Please select
Option 4	Please select
Option 5	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	



Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	This is submitted understanding the cultural significance of the harbour to all parties but knowing that the new levels of treatment are to be off a standard which would be only ever improving for the future generations

**CHRISTCHURCH CITY COUNCIL  
Akaroa Wastewater Scheme**

**- Received via Have Your Say -  
Submissions close 5pm, 30 April 2017**

Full Name*:	Diana Stronach
Contact Address*:	
Postcode:	
Telephone number:	
Email Address:	
Date Sent:	4/29/2017 4:21:04 PM
Would you like to attend the hearings for this consultation?	No
I am completing this submission:	For myself
Role within Organisation	
Group/Organisation Names	
How many people do you represent?	
Preferred environment for Akaroa wastewater discharge:	Disposal via a new outfall pipeline to the mid-harbour
If Other, please describe and state reasons	
Option 1	Option 5 - Disposal via a new outfall pipeline to the mid-harbour
Option 2	Option 4 - Non-potable reuse in Akaroa, in combination with another option
Option 3	Option 2 - Irrigation of trees or pasture at Pompeys Pillar
Option 4	Option 1 - Irrigation of trees or pasture in Robinsons Bay
Option 5	Option 3 - Irrigation of trees or pasture in Takamātua Valley, in combination with another area
Option 6	Please select
Other	
State reasons for ranking	
Would you be more supportive of spray irrigation of treated wastewater to pasture? Why	

Do you have location preference? Why:	
Should Council add aspirational projects to the Akaroa wastewater scheme?	
Any other comments?	