Agenda



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Ordinary Meeting of the Malvern Community Board

To be held in the West Melton Recreation Centre Pearce Lounge

Monday 27 January 2025 Commencing at 2pm

Malvern Community Board - 27 January 2025

Members: Mrs S Nu'u, Mr C Payne, Mr P Freeman, Mr J Verry & Mr B Russell (Chairperson) and Councillor L Gliddon

27 January 2025 02:00 PM

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Public portions of this meeting are audio-recorded and livestreamed via the Council's YouTube channel.

The Severe Weather Emergency Legislation Bill has, until October 2024, suspended the requirement for members to be physically present to count as 'present' for the purposes of a quorum. Members attending by means of audio link or audiovisual link are therefore able to be counted as present for the purposes of a quorum and able to vote. The recently enacted Local Government Electoral Legislation Act has made these emergency provisions permanent.

FINANCE REPORT

TO: Malvern Community Board

FROM: Selwyn District Council – Finance Business Partners

DATE: 6 January 2025

SUBJECT: Malvern Community Board financial report for the period to

30 November 2024

RECOMMENDATION

'That the Malvern Community Board receives for information the Malvern Community Board ("MCB") Finance Report for the period 1 – 30 November 2024.

1. **PURPOSE**

The purpose of this report is to provide the MCB with a summary of the financial and operational performance against the planned performance highlighting any material variances.

This report covers the period to 30 November 2024 is based on the Council's monthly management accounting and performance information. It does not include technical accounting adjustments; these are made at the end of the year to comply with accounting standards.

Report prepared by:

Selwyn District Council

Thomas Cockburn, Sarah O'Connor

Financial Business Partners

Endorsed by:

Selwyn District Council

Allison Sneddon

Chief Financial Officer

Thouse

MCB Finance Report for the period ended 30 November 2024

The MCB is in a YTD deficit of \$10,183 as at 30 November 2024, favourable to budget by \$4,930.

Total YTD revenue for the period ended 30 November was \$70,447, below budgeted revenue by \$898 due to timing of collections of the Malvern Ward Community Board targeted rate. This is expected to recover during the financial year.

Total YTD operating expenses for the period were \$34,750, below budgeted expenditure by \$5,828. Support charges are on budget of \$45,880.

The favourable variances compared with the budget are:

- Training expenditure is favourable to budget due to no spend against the YTD budget of \$1,562.
- Sister City expenses are favourable to budget due to no spend against the YTD budget of \$415.
- Members YTD Remuneration of \$24,587 is favourable to budget by \$713 due to the Local Government Members
 Determination 2024 made by the Remuneration Authority being received after a higher budget had been set for the year.
- Training and conference expenses are YTD \$473 favourable to budget.
- Vehicle expenses of YTD \$2,378 are favourable to budget by \$3,622.

The unfavourable variances compared with the budget are:

- Advertising and General expenses YTD \$2,814 are unfavourable to budget by \$369 mainly due to costs incurred for the MCB awards and printing of MCB brochures.
- Refreshments are YTD \$572 unfavourable to budget. This is mainly due to a catering bill of \$543 for the MCB Awards on the 7th October.
- Telephone costs of YTD \$535 are slightly over budget by \$31. Mobile phone charges are \$20 per phone per month.

Statement of financial performance (unaudited)

Malvern Community Board

For the month ended November

	Month	Month Budget	Year to Date	Year to Date	Actual YTD vs	Full Year	Last Year	
	November	November	Actual	Budget	Budget YTD	Budget	Actuals	No
Revenue								
0002101. Malvern Ward Community Board Targeted Rate	14,090	14,269	70,447	71,345	(898)	171,228	158,831	
0002146. Donation	0.70		50	120			15	
0002162. Sale of Malvern History	-	-	-	-		-	-	
Total Revenue	14,090	14,269	70,447	71,345	(898)	171,228	158,831	
Expenditure								
0002301. ACC Levy	6	9	30	45	15	110	136	
0002320. Advertising & General	191	290	2,814	2,445	(369)	4,500	1,327	Note
0002395. Training	6.46	62	-	1,562	1,562	2,000	1,222	
0002410. Consultants Fees		100	50			100	1.5	
0002452. Elections	325		25	-	0	-	10,956	
0002502. General Expenses	040	686	687	686	(1)	1,500	-	Note
000250201. Sister City Expenses	3.53	83	50	415	415	1,000	1.7	
0002718. Refreshments	543	25	697	125	(572)	300	73	
0002765000. Members' Remuneration	4,917	5,060	24,587	25,300	713	60,717	56,903	
0002825000. Telephone/Broadband Allowance	100	436	535	504	(31)	1,204	829	
0002835. Training/Conference	-	140	3,022	3,495	473	4,500	10	
0002860000. Vehicle Expenses	(431)	1,200	2,378	6,000	3,622	14,400	5,728	Note
Total Expenditure	5,327	7,991	34,750	40,577	5,828	90,231	77,174	0.000
Support charges								9
Total Support charges	9,176	9,176	45,880	45,880		110,108	91,969	ŀ
Surplus/(Deficit)	(413)	(2,898)	(10,183)	(15,112)	4,930	(29,111)	(10,312)	ê
	Month		Year to Date	Year to Date		Full Year	Last Year	
Targeted Rate Reserve Balance at:	November		Actual	Budget		Budget	Actuals	i.
Opening Balance	79,213		88,982	88,982		88,982	99,294	
Surplus/(Deficit)	(413)		(10,183)	(15,112)		(29,111)	(10,312)	
Closing Balance for Period	78,800		78,800	73,870		59,871	88,982	

Note 1: MCB Awards and MCB brochure printing.

Note 2: \$500 cost granted to the Darfield High School for prize-giving cost for frames for MCB award certificates. 🕮

Note 3: Vehicle expenses are negative due to the October accrual being reversed and no expense being accrued for November, this will be corrected next month.

Expenditure Transactions Breakdown		
0002301. ACC levy	Jul 2024	5.97 ACC Provision July
0002301. ACC levy	Aug 2024	5.97 ACC Provision August
0002301. ACC levy	Sep 2024	5.97 ACC Provision September
0002301. ACC levy	Oct 2024	5.97 ACC Provision October
0002301. ACC levy	Nov 2024	5.97 ACC Provision November
0002320. Advertising expenses	Jul 2024	275 AP Local Governmen 7654001 206624/01 Community Board Levy 2024/25 Malven - LGNZ
0002320. Advertising expenses	Jul 2024	834.78 AP Malvern News 8394001 207168/01 MCB Awards Advertising - 4 inserts in Malvern
0002320. Advertising expenses	Aug 2024	392.88 AP CORDE Ltd 9254001 207554/01 2 X information boards to be reinstalled back at Darfield Li
0002320. Advertising expenses	Aug 2024	77 AP Selwyn District 9249001 207728/01 MCB Hire of the DRCC Lounge - 20 June 2024
0002320. Advertising expenses	Aug 2024	96.25 AP Selwyn District 9249001 207755/01 MCB Hire of the DRCC Lounge - 18 July 2024
0002320. Advertising expenses	Sep 2024	896.51 AP BLUEPRINT 964001 208954/01 MCB Brochure Printing - Quote 242286
0002320. Advertising expenses	Sep 2024	50.22 AP Selwyn District 376001 208953/01 MCB Hire of the DRCC Lounge - 12 August 2024
0002320. Advertising expenses	Nov 2024	191.3 AP Selwyn District 6783001 206835/01 Room Hire - Malvern Community Board
0002502. General expenses	Aug 2024	500 AP Darfield High S 9539001 208444/01 Contribution to Darfield High School Prize
0002502. General expenses	Oct 2024	76.52 AP Bruce Douglas R 8647001 209899/01 Reimburse Expenses - Malvern Community Board
0002502. General expenses	Oct 2024	110 AP Selwyn District 5857001 210769/01 MCB Room Hire
0002718. Refreshments	Jul 2024	68.4 AP Bruce Russell 8173001 206857/01 Reimbursement of Expenses MCB - Bar Snacks
0002718. Refreshments	Aug 2024	108.6 AP Bruce Russell 9182001 207847/01 Reimburse Expenses - Malvern Community Board
0002718. Refreshments	Aug 2024	-14.15 Malvern Community board refreshments GST Aug
0002718. Refreshments	Aug 2024	-8.92 Malvern Community board refreshments GST Jul
0002718. Refreshments	Nov 2024	542.75 AP Country Feasts 6780001 209685/22 Orders for the end of September 2024 until th
0002765000. Cost of staff employed	Jul 2024	4917.48 Wages
0002765000. Cost of staff employed	Aug 2024	4917.48 Councillors Pay Accrual Aug 24
0002765000. Cost of staff employed	Sep 2024	-4917.48 Councillors Pay Accrual Aug 24
0002765000. Cost of staff employed	Sep 2024	4917.48 Councillors Pay Accrual Sep 24
0002765000. Cost of staff employed	Sep 2024	4917.48 Wages
0002765000. Cost of staff employed	Oct 2024	4917.48 Councillors Pay Accrual Oct 24
0002765000. Cost of staff employed	Oct 2024	-4917.48 Councillors Pay Accrual Sep 24
0002765000. Cost of staff employed	Oct 2024	4917.48 Wages
0002765000. Cost of staff employed	Nov 2024	4917.48 Councillors Pay Accrual Nov 24
0002765000. Cost of staff employed	Nov 2024	-4917.48 Councillors Pay Accrual Oct 24
0002765000. Cost of staff employed	Nov 2024	4917.48 Wages
0002825000. Telephone expense	Jul 2024	185.18 AP Spark New Zeala 6877001 206336/01 Cell Phones, Executive June/July 2024
0002825000. Telephone expense	Aug 2024	50.22 AP Spark New Zeala 9516001 207695/01 Cell Phones, Executive July/August 2024
0002825000. Telephone expense	Sep 2024	100 AP Spark New Zeala 377001 209059/01 Cell Phones, Executive August/September 2024
0002825000. Telephone expense	Oct 2024	100 AP Spark New Zeala 7952001 209550/01 Cell Phones, Executive September/October 2024
0002825000. Telephone expense	Nov 2024	100 AP Spark New Zeala 5990001 210757/01 Cell Phones, Executive October/November 2024
0002835. Training - Staff, aids & Equip	Jul 2024	2819.25 Prepayments 2024
0002835. Training - Staff, aids & Equip	Aug 2024	202.4 AP Bruce Russell 9318001 208269/01 LGNZ Conference Expenses
0002860000. Vehicle expenses	Jul 2024	1006.3 Wages
0002860000. Vehicle expenses	Aug 2024	1006.3 Councillors Pay Accrual Aug 24
0002860000. Vehicle expenses	Sep 2024	-1006.3 Councillors Pay Accrual Aug 24
0002860000. Vehicle expenses	Sep 2024	941.2 Councillors Pay Accrual Sep 24
0002860000. Vehicle expenses	Sep 2024	941.2 Wages
0002860000. Vehicle expenses	Oct 2024	430.56 Councillors Pay Accrual Oct 24
0002860000. Vehicle expenses	Oct 2024	-941.2 Councillors Pay Accrual Sep 24

Malvern Community Board - 27 January 2025

0002860000. Vehicle expenses 0002860000. Vehicle expenses

Oct 2024 Nov 2024

430.56 Wages
-430.56 Councillors Pay Accrual Oct 24

Malvern Community Board draft 2025/26 budget.

Below is the draft Malvern Community Board budget for the 2025/2026 financial year. This report is from the 2024-34 Long-Term Plan and is provided for your information. We will work with you to align the budget to your needs for the 25/26 year.

Malvern Community Board Budget 2025/26

Maivern Community Board Budget 2025/26	Proposed Full
	Yeaı Budget 2025/26
Revenue	-
0002101. Malvern Ward Community Board Targeted Rate (\$26 per rate payer)	183,967
0002146. Donation	-
0002162. Sale of Malvern History	
Total Revenue	183,967
Expenditure	
0002301. ACC Levy	116
0002320. Advertising & General	4,622
0002395. Training	4,738
0002410. Consultants Fees	
0002452. Elections	
0002502. General Expenses	
000250201. Sister City Expenses	1,027
0002718. Refreshments	308
0002765000. Members' Remuneration	61,716
0002825000. Telephone/Broadband Allowance	205
0002835. Training/Conference	
0002860000. Vehicle Expenses	14,790
Total Expenditure	87,522
Support charges	
Total Support charges	109,726
Surplus/(Deficit)	(13,281)
Targeted Rate Reserve Balance at:	
Opening Balance	60,396
Surplus/(Deficit)	(13,281)
Closing Balance for Period	47,115

Malvern Community Board support charges

Support charges are the costs that are incurred in the general running of the Council. The costs are allocated to all users of the services based on the budgeted use of those services. For the 2024/25 financial year 0.42% of the total Council support charges has been budgeted for the Malvern Community Board (MCB).

MCB support charges are calculated from the departmental costs of the chief executive, governance support, finance, HR, payroll, administration, digital, marketing and communications, customer services, records, and legal departments. The support charges do not include costs for the infrastructure departments, resource management and policy departments or the other development and growth departments.

The support charges include not only salary costs but all other costs for a department. For example, in the digital department expenses for licences, subscriptions, IT network costs, equipment maintenance and hardware. For the finance department, audit fees, valuations, bank fees, printing, and postage of rate invoices.

The value of the support charges budgeted for MCB for 2024/25 is \$110k or 0.42% of the total Council support charges budget of \$26 million (2023/24 charge was also 0.42%).

	% of total department		% of support
	costs	\$ value	charges
Chief Executives Department, Governance support	2.10%	50,373	46%
Administration Support Services	0.25%	59,735	54%
		110,108	100%

MINUTES OF A MEETING OF THE MALVERN COMMUNITY BOARD HELD IN THE DARFIELD LIBRAY AND SERVICE CENTRE ON MONDAY 25 NOVEMBER 2024 AT 4PM

PRESENT

Messrs. B Russell (Chairperson), J Verry (Deputy Chairperson – via Zoom), C Payne, P Freeman and Ms S Nu'u; and Councillor R Mugford

ATTENDEES

Mrs S Mason (Chief Executive) and C Bennet (Governance Coordinator)

WELCOME

The Chair welcomed everyone to the meeting including the youth observer.

The meeting was livestreamed.

APOLOGIES

None

IDENTIFICATION OF ANY URGENT OR GENERAL BUSINESS

Mr Payne will discuss the finances in general business

CONFLICTS OF INTEREST

None.

PRESENTATIONS FROM SELWYN DISTRICT COUNCIL STAFF

Strategy and Policy Team

Area Plan – Engagement Approach

Presentation attached for information

Staff from the Strategy Team were in attendance and explained the multi-phase engagement approach planned for the Area Plans, specifically the review of the 2016 Malvern Area Plan.

Phase 3 pre-engagement is about to commence and has four components:

- Public activation workshops, drop ins at the Darfield Library and Edge Connector Van, and community event stalls
- School engagement with workbooks and Darfield High School events, as well as meetings with principals, student leaders and Board of Trustees
- Video to generate interest and promote the process
- Digital crowd mapping on Your Say Selwyn as a key method engagement method

Pre-engagement aims to learn more about townships and understand what we should do in the Malvern Area Plan: What people like about their community, what they don't like, what they want improved, and ideas for consideration. This will be focussed around the six strategic priorities outlined in Waikirikiri Ki Tua Future Selwyn.

Your Say Selwyn, Council's online engagement hub, has been tested and will be made available to the community to provide feedback online. The Board were concerned that some areas of the community may not be able to access online information. Staff advised other inperson engagement opportunities will be available.

The Board sought clarification of the boundary of the Malvern Area, which is different to the Malvern Ward boundary, specifically West Melton. Staff advised ward boundaries have shifted over time and the boundary of Greater Christchurch is defined in legislation which cannot be changed, and West Melton will be part of the Eastern Selwyn Area Plan. Staff highlighted that the whole district is being considered at the same time and so the Board can provide feedback on the any and all towns, regardless of Area Plan boundaries.

Phase 4 targeted engagement will be concurrent with pre-engagement and Board members asked for clarification on who have been identified as key stakeholders. Staff said they include central government, Environment Canterbury (ECan), neighbouring councils, local schools and large employers. Staff will share the indicative list of targeted stakeholders and said they were happy to take direction from the Board if they thought there were other stakeholders who should participate.

Staff are happy to receive recommendations for other key stakeholders to engage with. Staff will also be setting up a facilitated workshop with the Board to receive their feedback. The Board will also be briefed before the commencement of further engagement phases.

Finance Team

Budget and Financial Statements

Mr Payne summitted questions to the Finance Team in writing prior to the meeting. The Finance Team will answer these queries and reply to Mr Payne and the Board.

There was discussion on the digital technology that has been supplied to the Board and the resulting changes. The Chief Executive will speak with the Finance Team and update the Board.

Moved - Mr Russell / Seconded - Mr Payne

'That the Malvern Community Board receives for information the Malvern Community Board ("MCB") Finance Report for the period 1 – 30 October 2024.'

CARRIED

PUBLIC FORUM

Ms Vanessa Murray

Hororata Community Engagement

Ms Murray, a Hororata resident, asked who the best person is to contact when people in her local community require information, in particular when it relates to issues that directly affect them. Mr Freeman encouraged Ms Murray to engage with the Go Hororata Committee who

operate in her area. The Chief Executive will provide Ms Murray with the contact information for individuals and local groups who she can link into within her community.

Mrs Ngaire Kent

Resource Consenting for the ANZAC Memorial in Kirwee

Mrs Kent is querying the costs of the resource consents for the ANZAC Memorial in Kirwee. The Chief Executive will follow this up and come back to her with a response.

CONFIRMATION OF MINUTES

Minutes of the Ordinary Meeting of the Malvern Community Board held in the Darfield Library Meeting Rooms, on Monday 21 October 2024.

Moved - Ms Nu'u / Seconded - Mr Payne

'That the Malvern Community Board confirms the minutes of the Ordinary Meeting of the Malvern Community Board held on Monday 21 October 2024.'

CARRIED

ACTIONS FROM LAST MEETING

Actions updated. Ms Nu'u will feedback to Mr Polglase from the Darfield Residents Association, the updated actions that relate to issues he raised at the previous meeting.

CORRESPONDENCE

None.

REPORTS

1. Monthly Report from the Chairperson

Chair - Mr Bruce Russell

Mr Russell congratulated Mr Verry on successfully completing further study at Lincoln University. Mr Russell attended the Armistice Day commemoration at Halkett. He said the memorial was a real credit to the local community.

Moved – Mr Russell / Seconded – Ms Nu'u

'That the report from Mr Russell be received for information'.

CARRIED

2. Board Member Ms Sharn Nu'u

Today Ms Nu'u attended the Regional Public Transport Consultation and presented the Malvern Community Board submission. She will circulate her speaking notes to the Board.

Moved – Ms Nu'u / Seconded – Mr Payne

'That the report from Ms Nu'u be received for information'.

CARRIED

Ms Nu'u expressed her interest in joining the panel to hear submissions following Council consultation on the future of the Sheffield Pool. The Board agreed that Ms Nu'u will represent them on the hearing panel.

Moved - Ms Nu'u / Seconded - Mr Payne

'That the Malvern Community Board appoint Board Member Nu'u as their representative on the hearings panel for oral submissions on the future of Sheffield Pool to be heard between the 26-27 February 2025'.

CARRIED

3. Board Member Mr Calvin Payne

Mr Payne thanked Ms Nu's for attending and summitting to Regional Public Transport Forum on behalf of the Board.

Moved – Mr Payne / Seconded – Ms Nu'u

'That the report from Mr Payne be received for information.'

CARRIED

4. Board Member Mr Phil Freeman

Due to work commitments Mr Freeman did not submit a report this month.

5. Board Member Mr John Verry

Mr Verry said he was concerned and frustrated about what be believed to be the quality and timeliness of information being provided to the Board by Council. He encouraged Council to engage with the Board and with the wider community at the earliest opportunity. He thanked the Roading Team for investigating the issues regarding access and mobility scooters in Darfield.

The Board agreed to discuss days and times that would be more suitable for their meetings in 2025. The Board will look at how they can work the Council recess dates into their proposed meeting schedule. They will provide this information to the Governance Team who will then investigate alternative meeting venues for their preferred dates and times.

Moved – Mr Verry / **Seconded** – Mr Freeman

'That the report from Mr Verry be received for information.'

CARRIED

6. Councillor Mugford

Councillor Mugford has provided the Chief Executive with questions ahead of the Coalgate Township Committee meeting. Glentunnel Museum elected Councillor Mugford as their Chairperson. The new Council funding committee is working well. The application forms have been redesigned and should be more user friendly.

Moved – Councillor Mugford / **Seconded** – Mr Payne

'That the verbal report from Councillor Mugford be received for information.'

CARRIED

7. Chief Executives Report

Mrs Sharon Mason, Chief Executive, introduced Mr Steve Gibling to the Board. Mr Gibling will be attending Malvern Community Board meetings in 2025 instead of Mrs Mason. Mr Gibling is Council's Executive Director of People, Culture and Capability. The Board thanked the Chief Executive for all her support and active involvement with the Board. She said she will continue to assist the Board in seeking resolution to any community concerns they bring to her attention.

Moved - Mr Russell / Seconded - Mr Payne

'That the report from the Chief Executive Officer be received, for information'.

CARRIED

8. Strategic Priority Subcommittees

Executive Director People, Culture and Capability

Mr Steve Gibling, Executive Director People, Culture and Capability, said the change to the committee structure is a result of engagement around Waikirikiri Ki Tua Future Selwyn. The new subcommittees are designed to focus on key areas that will support the continued growth of the district. Membership includes Councillors, mana whenua and the opportunity for subject matter experts to participate and give advice on key topics.

Moved – Mr Russell / Seconded – Mr Payne

'That the Malvern Community Board:

- (a) notes the Council have disestablished the following Committees of Council
 - Community Services Committee
 - Planning and Climate Change Committee

- Transport and Infrastructure Committee
- (b) notes the Council have established four new strategic priority subcommittees until the 2025 local elections, in addition to the existing Finance and Performance Committee and Audit and Risk Subcommittee, being:
 - Housing and Urban Development Strategic Priority Subcommittee
 - Local Water Done Well Strategic Priority Subcommittee
 - Economic Development Strategic Priority Subcommittee
 - Climate Change and Sustainability Strategic Priority Subcommittee.'

CARRIED

DISCUSSION OF PUBLIC FORUM MATTERS

None

GENERAL BUSINESS

The Board discussed how they could best financially support the Darfield Residents Association Christmas Committee. It was agreed that \$500 be donated to the Committee to assist in purchase of gifts for local children.

Moved – Mr Payne / Seconded – Mr Russell

'That the Malvern Community Board donate \$500 from the general fund to gifts to Santa's Grotto in Darfield.'

CARRIED

Mr Payne sought the Boards approval of funds for him to enrol in an online training course offered by the Institute of Directors (IoD). The course is 'Training for Not-for-profit Governance and Finance Essentials'. The Board agreed to fund this training as it would be of benefit to both the Board and local resident associations.

Moved - Mr Payne / Seconded - Mr Nu'u

'That the Malvern Community Board approve funding of \$618 plus GST for Mr Payne to enrol in the 'Training for Not-for-profit Governance and Finance Essentials' course.'

CARRIED

The Chair wished the B	The Chair wished the Board a safe and happy festive season.						
The meeting closed at	5.45pm.						
DATED this	day of	2025					
CHAIRPERSON							

Malvern Community Board - November 2024 Meeting

Actions / Follow up for Staff

Issue	Responsibility	Status / Update
Board IT equipment – Use and charges	Council staff	Chief Executive has asked the Finance Team and Digital Team to investigate Will be addressed in Manager's report
ANZAC memorial resource consent invoicing	Council staff	Chief Executive has asked the Planning Team to investigate.
Hororata Community Contacts	Council staff	Vanessa Murray spoke in public forum. She was speaking about how information is shared in the Hororata area. Chief Executive has her contact details, and she will link her in with local community contacts.
Area Plan Updates	Council staff	Council staff will organise a workshop for the Board. Dates and times to be confirmed. Confirmed workshop run by staff 27 Jan @ 4.30-6.30pm
Sheffield Pool Hearings Panel	Council staff	CSF staff have been advised that Ms Sharn Nu'u has been appointed by the Board to be their representative on the Hearings Panel for the Sheffield Pool.
IoD Training	Council staff	Board agreed that they will fund the cost of Mr Calvin Payne to enrol in an IoD training course. Mr Payne to provide the invoice and he will be reimbursed.
Darfield Residents Association Donation	Council staff	Board agreed to donate money for the purchase of gifts for Santa's Grotto in Darfield. Complete

COMMUNITY BOARD REPORT

TO: Malvern Community Board

FOR: Community Board Meeting – 27 January 2025

FROM: Community Board Chairperson – Mr Bruce Russell

DATE: 20 January 2025

SUBJECT: CHAIRPERSON'S BOARD REPORT December 2024 – January 2025

RECOMMENDATION

'That the monthly report from the Board chairperson be received, for information.'

SUMMARY

As we enter our final 9 months of our term, we look forward to our commitment to the Malvern Ward.

We have a number of activities to start and make a meaningful benefit to the District and ourselves.

I had a morning with Steve Gibling setting up proposals which we will discuss with further input from us all. I look forward to working with Steve and Council staff.

I attended the following events during the December / January period.

- West Melton School final assembly and prize giving
- Kirwee Residents Association
- Meeting with the CEO
- SDC Christmas function
- Darfield Christmas Grotto

Burce Russell QSM JP

Chairperson: Malvern Community Board

COMMUNITY BOARD REPORT

TO: Malvern Community Board

FOR: Community Board Meeting – January 27th 2025

FROM: Community Board Member – Sharn Nu'u

DATE: January 22nd 2025

SUBJECT: BOARD REPORT – December/January 2024/2025

RECOMMENDATION

'That the monthly report from the Board member be received, for information.'

Darfield High School Prizegiving

On 3rd December, I attended the Darfield High School Senior Prizegiving on behalf of the Malvern Community Board. The following is the list of recipients who were awarded a Malvern Community Board Award:

- Barnaby Maude for Best All Rounder
- Kyan Simōn for Proxime Accessit to the Dux
- Annabella Rooney for High Academic Achievement 2nd in Year 12
- Laura Longdin for General Excellence 1st in Year 12





Greendale Pool Opening

On 13th December, I was privileged to be invited by Greendale School to be part of the opening ceremony for their community pool. I would like to make special mention to Ralph Brown the chair of the Greendale School BOT, Cheryl Ridgen who led the project to revamp the pool and the Greendale School PTA for their efforts in ensuring this wonderful community asset is abe to be enjoyed by the Greendale residents.





Santa's Grotto

Setting up

- December 1st, Harvey and Caroline from the DRA joined myself and my children to decorate the outside of the jail, including advertising.
- December 15th, Harvey, Caroline and my children decorated the inside of the jail.
- I did 2 trips to Christchurch to purchase gifts with money donated by Darfield Life Church and MCB. Cr Gliddon also provided gifts for the grotto.
- Approximately 20 hours was spent wrapping gifts.
- I did 2 trips to Darfield to collect donations from local businesses
- Thank you to Jo Brackmann from the Coalgate Residents Group for helping put the raffle hampers together. Approx. 4 hours was spent on creating the hampers.
- I created 3 posters for marketing and comms throughout the month leading up to the event.







Santa's Grotto

From 16th December – 20th December, Darfield Historical Jail opened to the public as Santa's Grotto. This was another successful event despite the weather being cold and wet.

Over 300 families came through the grotto with approx.. 450 children from all over Malvern received a free gift.

The DRA had a raffle going also, and joined us through the week at the grotto. Thank you to the DRA for providing me relief when needed and for walking this journey along side the board.

Thank you to Reinier Van Wieren for showing up every day as Santa.

Christmas Extravaganza

21st December, MCB joined the DRA for their Christmas Extravaganza where hundreds of people from across the ward attended (There is a great write up in the Malvern News). Bruce was Santa for this event, and Calvin spoke to the crowd and announced the raffle winners. We gave away 10 hampers.





Sharn Nu'u

COMMUNITY BOARD REPORT

TO: Malvern Community Board

FOR: Community Board Meeting – 27th January 2025

FROM: Community Board Member – John Verry, Deputy Chair

DATE: 20th January 2025

SUBJECT: BOARD REPORT – January 2025

RECOMMENDATION

'That the monthly report from the Board member be received, for information.'

INTRODUCTION

This report covers my community engagement as an elected member (Hawkins Subdivision) – at the October 2023 by-election, of the Malvern Community Board. The Representation Review 2024 turned out to be the prime focus as the Council was unequivocal in its position that the Malvern Community Board be disestablished. This was despite the strong support (evidence) elicited from the people in the Malvern Ward, especially the Hawkins Subdivision, that the Malvern Community Board not be disestablished. The evidence was presented to the Selwyn District Council as part of the Preliminary Consultation and confirmed in feedback to the Final Proposal.



→ Democracy at work saw a majority of Councillors supporting the '*Peoples view*' (in the Malvern Ward, predominanly) that the Malvern Community Board not be disestablished.

The Malvern Ward also retained representation from two Councillors.

Accepting the only appeal to the SDC Final Determination was from the Rolleston Residents' Association Inc. – which will be heard by the Local Government Commission in March 2025, the year ahead will be busy and productive.

The change of liaison person from the Council working with the MCB, in my personal opinion, has been positive in that in the short period of time since the change became effective there has be a clear and unequivocal demonstration of support for the MCB in both the quality of the information provided and the willingness to engage with the Board and Members.

I personally see the challenge being to work together for the benefit of those in the Malvern Ward. Here the Residents Associations (RAs) have a pivotal role, with the next MCB / RAs meeting scheduled for 13th February 2025 (then: 17th April + 12th June 2025), in the Darfield Library and Service Centre.

Central to the performance of the MCB will be:

- 1. bringing the Management Plan (Future Directions) to fruition.
- 2. the effective functioning of the multi-agency Working Party looking into flood prevention (Springfield) (which is due to report in February 2025);

Page 1 of 3

3. engagement with the various communities of interest to provide input into the Council's work on the Malvern Area Plan.

Another positive is the Council's revamped support for local communities wishing to celebrate ANZAC day in 2025 - Revised ANZAC Day Policy and Operational Changes (Agenda - 11th December 2024).

Local elections and voting

Ngā pōtitanga ā-rohe me te pōti

Local Government New Zealand's Electoral Reform Working Group // 2024

Localism relies on participation in Local Government Elections. Having both quality candidates and high turnout (people voting). 11th October 2025 is Election Day and voting closes at mid-day for the booths and postal voting is an option.

MCB is in my personal opinion, well placed to build on the raised awareness of the benefits of the Malvern Community Board and importance of local participation in the democratic process, so we have This presents many opportunities for MCB to demonstrate its value and promote the relevance to the people in Malvern, at the same time as building wider understanding of local government and the importance of voting.

The high-level timeline is:



I Have had my say in my personal capacity, and will raising with my colleagues on the Board for a concerted community engagement March – May 2025 on the consultation for the draft position paper.

The Horizon Research nationwide survey following the 2022 local elections found that the most common reasons for not voting were that people did not know enough about the candidates (31%) and their policies (26%) and could not work out who to vote for (22%). Another 11% of non-voters said that they did not vote because they did not receive voting papers.

https://d1pepq1a2249p5.cloudfront.net/media/documents/ERWG_Issues_Paper_final.pdf

This being an election year I envisage my community engagement in the Hawkins Subdivision

ISSUES RAISED BY CONSTITUENTS.

1. Mobility scooter access to Darfield CBD area

Further to this matter being raised by residents in Darfield, I was invited to a meeting with SDC roading staff who provided a response. The response, "this section of footpath seems okay to be used by mobility scooters with access to either side of the shops" has been communicated to the constituents who raised the matter and contact has been made with NZTA (follow though being undertaken).

2. Pure drinking water

This remains a live issue. Further enquiries, in collaboration with the Darfield Residents' Association Inc., have and are being made regarding the feasibility of being able to provide a chlorine free water station in Darfield.

- CCTV Coverage Darfield Recreation and Sports Centre
 The issue of CCTV camera coverage in Malven remains a live issue justifying further advocacy.
- 4. Flooding in Darfield township and SH 73 opposite the Darfield Library and Recreation Centre. Is under investigation and a concern for Darfield Residents Association Inc,

WIDER MATTERS OF INTEREST FOR THE COMMUNITY:

A. Community Halls

On-going, no further update at this stage.

B. MCB monthly meetings

The current situation of having to vacate the room allocated in the Darfield Library & Service Centre appears to have been resolved, noting that the workshop on 27th January 2025 replicates the previous situation.

ATTENDANCES SINCE LAST MEETING:

None, noting that there have been various communications from and with constituents.

Community Board Member
Deputy Chair | Malvern Community Board

REPORT

TO: Malvern Community Board

FOR: Malvern Community Board Meeting on 27 January 2025

FROM: Executive Director People, Culture & Capability

DATE: 22 January 2025

SUBJECT: EXECUTIVE DIRECTOR REPORT

RECOMMENDATION

'That the Malvern Community Board:

- 1. receives the Executive Director's report for information;
- 2. endorses the names of the new roads
 - Asthall Lane
 - Knighton Drive
 - Lemington Way
 - Snowshill Way
 - Witney Lane
 - Bilbury Lane
 - Tetbury Drive
 - Colesbourne Way

for the Camden Road Development; and

3. notes the earlier meeting start time of 3.30pm in the future.'

1. ROAD NAMES IN CAMDEN ROAD DEVELOPMENT, WEST MELTON

The developer of the Camden Road Development subdivision in West Melson has submitted the following names for the new roads in the subdivision.

- Asthall Lane
- Knighton Drive
- Lemington Way
- Snowshill Way
- Witney Lane
- Bilbury Lane
- Tetbury Drive
- Colesbourne Way

The theme for Camden is Villages/Rivers in The Cotswolds.

Road naming is the responsibility of the developer. Council staff check to make sure that the road names meet the Australian/New Zealand Standard AS/NZS 4819:2011 and Council Policy.

The road names have been approved by LINZ and the report was submitted to the Executive Director Infrastructure and Property for Council approval. This approval has been delegated to Gareth Morgan by Council. The approved report and plan are attached.

As the roads are in the Malvern area, we are happy to report this to the Community Board for endorsement.

2. SHEFFIELD POOL CONSULATION UPDATE

The Sheffield pool community consultation regarding the Council's resolution to transfer the pool to a community-run legal entity is currently in progress and will conclude at the end of January, with hearings scheduled for March 2025.

• **Consultation Period**: The consultation began on Friday 22 November 2024 and ends at 5pm on Friday 14 February 2025.

Campaign Details:

- o Media release issued on Friday, 22 November
- o Posters distributed throughout Sheffield and Springfield
- Signage displayed at Sheffield Pool
- Mailbox drop (A4 letter) to Sheffield, Darfield, and Springfield residents in early Dec 2024
- Print advertisements in Sheffield and Springfield School newsletters in Nov and early Feb 2025
- Print advertisements in Selwyn Times and Malvern News in Nov and early Feb 2025
- Facebook posts in Nov and early Feb 2025
- Council Hearings: Hearings are set for 26 and 27 February. During the November Council meeting, it was decided that the hearings would take place in Sheffield. The panel includes Councillor Phil Dean as Chair, along with Councillors Elizabeth Mundt and Bob Mugford. Sharn Nu'u is the representative member from MCB on this panel.
- Submissions: A webpage on your.say.govt.nz was created to collect online submissions. As of 14 January, there have been 12 online submissions and five paper submissions.

3. HORORATA DOMAIN

Late last year there was a lot of media attention about the water level at the lake in Hororata Domain.

The lake has been fed previously by two sources: a bore fed by a pump and the central plains water supply. The bore has been unavailable in recent years (burnt out - reason unconfirmed but possibly because of lower aquifer levels), and the central plains water supply had been turned off.

The Hororata community volunteers mobilised, and, with assistance from Simon Driscoll at Coalgate Earthworks Ltd, they successfully cleared the debris and located the CPW (Central Plains Water) supply.

A temporary supply was set up and the lake has been successfully refilled, (with an estimated volume of 1,400m³). This was made possible due to the current surplus of water; it was expected that this surplus wouldn't be available over January and later in the summer.

The goal was to expedite the refill before Christmas, and thanks to the dedication of everyone involved, including Phil & Cindy at Go Hororata, Simon Driscoll at Coalgate Earthworks Ltd for Pathway, Lake clean and refill, Hamish at MCL Contracting for the Vehicle drive, Kimber Fencing, Hayden areFrews - demolition of existing WC block, Paddy @ MMDL - decommissioning existing septic tank. we were able to achieve this target.

Master Plan

Completed:

- Vehicle path to Equestrian Area.
- Pedestrian path to Eastern and Northern perimeter of reserve.
- Decommissioned the existing Septic tank.
- Demolished the existing concrete block WC block.
- Installed a new water tank to Western Edge of reserve (Equestrian use).
- Lake cleared and refilled.

Underway:

Fencing to track and equestrian Area.

To do:

- Stone burier to be used on the Equestrian area and cultivated soil planted with grass (after the summer).
- Pedestrian access path into reserve (opposite community Hall where demolished WC block was sited).
- Timber screen fence around existing tanks/public toilets.
- New Bore & Pump: Evaluate whether a new bore and pump, (as previously quoted) is necessary for the long-term sustainability of the lake.
- Install a Backflow Preventer on site (location TBC).
- Monitoring lake levels: Continue monitoring the lake's water level, with particular attention to the area near the trotting track by the trees, which remains a concern.

Below is a picture of the lake taken on 6 January and a facebook message on the Hororata community page.





4. COUNCIL AND BOARD CALENDAR FOR 2025

The Council and the Board have agreed on the meeting dates for 2025. It has been confirmed that from 24 February, these meetings will be held at the earlier time of 3.30pm at the Darfield Library meeting room.

A draft work plan for 2025 was circulated to Board members for initial feedback last year and this will be tabled at the February meeting for discussion.

5. MANAGING RISKS AND EXPLORING PRIVATE DEVICE USE IN OUR ORGANISATION

As our organisation embraces modern technology to support efficient service delivery, we are simultaneously tasked with managing a range of risks to protect the integrity of our systems, the security of sensitive data, and our compliance with regulatory standards. Key risks include unauthorised access to systems, data breaches, loss of critical organisational information, and the potential for non-compliance with laws such as the Privacy Act 2020. Mitigating these risks is vital for maintaining trust within the community, ensuring operational continuity, and safeguarding the information entrusted to us by residents and partners.

One of the key challenges we face is balancing the flexibility of allowing members of our organisation (governance and employees) to use private devices (Bring Your Own Device, or BYOD) with the need to secure organisational systems.

While BYOD offers cost-saving opportunities and convenience, it introduces risks such as malware, data leakage, and difficulties in maintaining uniform security standards across a diverse range of personal devices. These risks could undermine the confidentiality, integrity, and availability of our information systems.

To make private device use work within our operational needs, we ask Community Board members to follow the below guidelines:

- 1. Enforcing Security Standards: Devices must have multi-factor authentication, have up to date applications and operating systems, plus strong passwords, to access Council systems.
- 2. Using Mobile Device Management (MDM): Allowing us to manage security settings, restrict access to sensitive data, and remotely wipe work data if a device is lost or stolen.
- 3. Data Management: Work-related data must be stored in company-authorised cloud storage or applications.
- 4. Awareness and Training: Educating members about data privacy and security good practices and their role in protecting organisational data.

By addressing these risks proactively, we can create an environment where the use of private devices aligns with our operational needs while maintaining the security and trust of our stakeholders. This approach reflects our commitment to modern, flexible digital practices while upholding the highest standards of accountability and safety.

A separate paper has been included to address allowances payable for ICT equipment under the Remuneration Authority Determination 24/25, as discussed at a previous Board meeting.

6. KIRWEE WATER

An email (attached) was sent to Environment Canterbury and the Chief Executive SDC from the Kirwee Community Association raising concerns about the use of water for firefighting.

For the Board's information, the Kirwee water supply is consented to extract 396,450 cubic metres of water per year. 50,000 litres or 50 cubic metres is only 0.013% of the allocated volume. The consent also has a 7 consecutive day allocation of 21,770 cubic metres. 50 cubic metres is only 0.23% of this allocated volume. Therefore, there is no substantial impact on the ability to provide water to the community.

Attached is the NZFS Firefighting water supplied code of conduct for your information.

Steve Gibling

EXECUTIVE DIRECTOR PEOPLE CULTURE AND CAPABILITY

REPORT

TO:

Head of Operational Delivery

FROM:

Transportation Support Coordinator

DATE:

20th December 2024

SUBJECT:

ROAD NAMES IN CAMDEN ROAD DEVELOPMENT, WEST MELTON

RECOMMENDATION

'That pursuant to section 319A of the Local Government Act 1974 the Head of Operational Delivery (under his delegation from the Selwyn District Council) approve Asthall Lane, Knighton Drive, Lemintgon Way, Snowshill Way, Witney Lane, Bilbury Lane, Tetbury Drive and Colesbourne Way as the names of the new roads in Camden Road Development, West Melton'

1. PURPOSE

To gain approval from the Selwyn District Council for the name of the new roads in Camden Road Development, West Melton

2. HISTORY/BACKGROUND

The theme for Camden is Villages/Rivers in The Cotswolds

The applicant has submitted the following names in preferential order for the new roads in stage 3 of their subdivision.

New Road names

Acceptable
Acceptable

LINZ has approved the use of these names.

3. PROPOSAL

The proposal is for the Selwyn District Council to consider the new road names in Camden Road Development, West Melton pursuant to section 319A of the Local Government Act 1974.

4. OPTIONS

Option 1

Approve Asthall Lane, Knighton Drive, Lemintgon Way, Snowshill Way, Witney Lane, Bilbury Lane, Tetbury Drive and Colesbourne Way pursuant to section 319A of the Local Government Act 1974.

Option 2

If the name supplied is considered not suitable ask the developer to supply further names.

Option 1 is the preferred option.

5. VIEWS OF THOSE AFFECTED / CONSULTATION

Not applicable

6. FUNDING IMPLICATIONS

Not applicable

Julis Gibson

Julie Gibson

Transportation Support Coordinator

APPROVED/DECLINED BY:

Gareth Morgan

HEAD OF OPERATIONAL DELIVERY

Holkett Road Lot 34 DP 451274 DF 451276 LOT 32 CP 451274 Lo13) CP 451276 Lof 1 DF 71229 Let 14) DP 402313 Lof 109 DP 402313 Lot 107 DP 402313 141 140 137 114 Wilney Lane 135 137 136 135 134 133 132 135 Bibury Lane Aldoworth Evenlode Leafield Blackley Deerhurst Wilenay Combe 168 104 DP 402313 DP 402313 Lot 102 DP 396852 125 124 tof 101 DP 398652 STAGE I the post-hal been prepared for used reming purposes and the basely is accepted if the print is used for any other purpose. Hughes Developments Ltd Knighton Drive Any measurements have from Education which is not denoughed an the sections copy are of the skill the religions. Proposed Subdivision of Loh 1 & 2 DP 34102 & Loh 1 & 2 DP 557426 hole feed grathed in the water of shifted to the property for the condition to the property for the condition of the condition to the condition of the condition to the condition of the conditio State Highway 73

APPENDIX A

APPENDIX B

From the Australian/New Zealand Standard Rural and urban addressing

ROAD TYPES – NEW ZEALAND (Normative)

The road type shall be selected from those specified as suitable for either open ended roads, cul-de-sac, or pedestrian only roads, as applicable (see Clauses 4.3, 4.6.2, 7.2 and 8.3.2(a)).

Road type Abbreviation		Description	Open Ended	Cul-de-sac	Pedestrian only
Alley	Aly	Usually, narrow roadway in a city or town	✓	✓	
Arcade	Arc	Covered walkway with shops along the sides			1
Avenue	Ave	Broad roadway, usually planted on each side with trees	✓		
Boulevard	Blvd	Wide roadway, well paved, usually ornamented with trees and grass plots	✓		
Circle	Cir	Roadway that generally forms a circle; or a short, enclosed roadway bounded by a circle.	✓	✓	
Close	CI	Short enclosed roadway		✓	
Court	Crt	Short enclosed roadway, usually surrounded by buildings		✓	
Crescent	Cres	Crescent shaped roadway, especially where both ends join the same thoroughfare	✓		
Drive	Dr	Wide main roadway without many cross-streets	✓		
Esplanade	Esp	Level roadway along the seaside, lake, or a river	1		
Glade	Gld	Roadway usually in a valley of trees	1	✓	
Green	Grn	Roadway often leading to a grassed public recreation area		✓	
Grove	Grv	Roadway that features a group of trees standing together		√	
Highway	Hwy	Main thoroughfare between major destinations	✓		
Lane	Lane	Narrow roadway between walls, buildings or a narrow country roadway	✓	✓	✓
Loop	Loop	Roadway that diverges from and rejoins the main thoroughfare	✓		
Mall	Mall	Wide walkway, usually with shops along the sides			1
Mews	Mews	Roadway in a group of houses		✓	
Parade	Pde	Public roadway or promenade that has good pedestrian facilities along the side	1		
Place	PI	Short, sometimes narrow, enclosed roadway		✓	

Road Types	Abbreviations	Description	Open Ended	Cul-de-sac	Pedestrian Only
Promenade	Prom	Wide flat walkway, usually along the water's edge			1
Quay	Qy	Roadway alongside or projecting into water	✓	✓	
Rise	Rise	Roadway going to a higher place or position	✓	✓	
Road	Rd	Open roadway primarily for vehicles	✓		
Square	Sq	Roadway which generally forms a square shape, or an area of roadway bounded by four sides	1	✓	
Steps	Stps	Walkway consisting mainly of steps			/
Street	St	Public roadway in an urban area, especially where paved and with footpaths and buildings along one or both sides	√		
Terrace	Tce	Roadway on a hilly area that is mainly flat	1	✓	
Track	Trk	Walkway in natural setting			1
Walk	Walk	Thoroughfare for pedestrians			✓
Way	Way	Short enclosed roadway		✓	✓
Wharf	Whrf	A roadway on a wharf or pier	√	√	1

ATTACHMENT 2

EMAIL FROM KIRWEE COMMUNITY ASSN

21 December 2024

From: Kirwee Community Assn < kirweecommunity@gmail.com >

Sent: Saturday, 21 December 2024 3:32 pm

To: ecinfo@ecan.govt.nz

Cc: Sharon Mason < <u>Sharon.Mason@selwyn.govt.nz</u>>; Calvin Payne

<<u>Calvin.Payne@selwyn.govt.nz</u>>

Subject: Kirwee Water

Our committee have been advised to write on to you to bring to your attention a concern re the use of water usage in the Kirwee Township due to extreme heat and the need for the fire service to draw more water from our wells due to the number of fires.

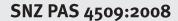
The Fire Service have advised they drew in excess of 50,000 litres (5 tanker loads) to combat the fires.

Our concerns are what the effect this will have on the residents in Kirwee?

I look forward to your reply.

Ngaire Kent

Secretary





Publicly Available Specification

New Zealand Fire Service Firefighting Water Supplies Code of Practice

Superseding SNZ PAS 4509:2003

SNZ PAS 4509:2008





COMMITTEE REPRESENTATION

This Code of Practice was prepared under the supervision of the P4509 Committee the Standards Council established under the Standards Act 1988.

The committee consisted of representatives of the following:

Nominating Organisation	Committee Member
BRANZ Ltd	Ed Soja
Department of Building and Housing	Alan Moule (Observer)
Fire Protection Association New Zealand Inc	Nigel Robinson
Ingenium	Eric Cawte
Insurance Brokers Association of New Zealand Inc	Peter Hughes
Local Government New Zealand	Logen Logeswaran
New Zealand Fire Equipment Association	David Hipkins
New Zealand Fire Service	Brian Davey
New Zealand Fire Service	Ian Millman
New Zealand Fire Service	James Firestone
New Zealand Water & Wastes Association	Johan Ehlers

ACKNOWLEDGEMENT

Standards New Zealand gratefully acknowledges the contribution of time and expertise from all those involved in developing this document.

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AMENDMENTS								
No.	Date of issue	Description	Entered by, and date					

Publicly Available Specification

New Zealand Fire Service Firefighting Water Supplies Code of Practice

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REFERENCED DOCUMENTS

Reference is made in this document to the following:

NEW ZEALAND STANDARDS

NZS 4404:2004	Land development and subdivision engineering
NZS 4512:2003	Fire detection and alarm systems in buildings
NZS 4515:2003	Fire sprinkler systems for residential
	occupancies
NZS 4517:2002	Fire sprinkler systems for houses
NZS 4521:1974	Specification for boxes for fire brigade
	connections
NZS 4541:2007	Automatic fire sprinkler systems
NZS 9201.7:2007	Model general bylaws – Water supply
NZS/BS 750:1984	Specification for underground fire hydrants and
	surface box frames and covers
SNZ PAS 4505:2007	Specification for firefighting waterway
	equipment

AUSTRALIAN STANDARD

AS 1668.3:2001 The use of ventilation and airconditioning in

buildings – Smoke control systems for large single compartments or smoke reservoirs

BRITISH STANDARD

BS 3251:1976 Indicator plates for fire hydrants and emergency

water supplies

OTHER PUBLICATIONS

Buchanan A.H. Structural design for fire safety. Chichester:

John Wiley & Sons, 2001

Department of Building
New Zealand Building Code Handbook and

and Housing Approved Documents

Land Transport Safety Traffic note 25, Retroreflective raised

Authority pavement markers, 2004

New Zealand Fire Flow testing of water mains and hydrant

Service training note inspections

Transit New Zealand Manual of traffic signs and markings - Part

II: Markings

TNZ M/07:2006 Road marking paints

NEW ZEALAND LEGISLATION

Building Act 2004
Fire Service Act 1975
Health and Safety in Employment Act 1992
Local Government Act 2002 and 1974
Resource Management Act 1991

RELATED DOCUMENTS

A list of related documents is set out in Appendix A.

Latest Revisions

The users of this Publicly Available Specification should ensure that their copies of the above-mentioned Standards are the latest revisions. Amendments to referenced New Zealand and Joint Australian/New Zealand Standards can be found on http://www.standards.co.nz.



Preface

As National Commander of the New Zealand Fire Service, I am pleased to release this revised code of practice for firefighting water supplies.

Those users familiar with the 2003 code of practice will see a number of changes that have resulted from comments and feedback from users of the document. The user will still be able to find tables that deal with fire hazard and specify the water flow requirements to match that hazard. There are now a number of worked examples included that help to understand the intent and application of the code and more detail relating to alternative firefighting water sources.

The code recognises the value of fixed fire protection systems, and particularly sprinkler installations, both in commercial structures and in homes. The Fire Service accepts that its firefighting water requirements can be tailored to a much lower demand in these structures. This edition of the code provides clearer guidance on what constitutes an alternative water supply where there is no reticulated supply, or where the available supply is insufficient for firefighting. The code has quantified firefighting water requirements based on sound engineering principles.

Taken together, these features provide the opportunity for all users to match firefighting water supplies to hazard, and to consider a range of alternatives in changing the water supply or changing the hazard in that process.

As an organisation we are committed to a process of continuous improvement, and this code is no exception. I welcome feedback and have already put a team in place that will work towards the next generation of this code of practice in coming years.

Mike Hall

National Commander New Zealand Fire Service

31 July 2008

Foreword

This code of practice was developed to provide direction on what constitutes a sufficient supply of water for firefighting in urban fire districts. This includes areas covered by any agreements under sections 38 or 39 of the Fire Service Act 1975. This code of practice is not intended to provide specifications for the water supply required for the effective operation of fire protection systems.

It is intended that the code of practice will form the basis of a partnership between the New Zealand Fire Service, territorial authorities, water supply authorities and developers so that the code may be used as a basis for territorial authority and water supply authority (WSA) conditions of supply or be called up, for example, by territorial authorities in rules regulating subdivisions in the district plan.

This code of practice is published under section 30(3) of the Fire Service Act.

Review

Suggestions for improvement of this code of practice will be welcomed. They should be sent to the National Commander, New Zealand Fire Service, PO Box 2133, Wellington.

1 GENERAL

1.1 Aims

This code of practice sets out what constitutes a sufficient minimum supply of water pressure and volume for firefighting in structures in urban fire districts. This includes areas covered by any agreements under section 38 or 39 of the Fire Service Act. Compliance with this code of practice does not guarantee that in each and every case the Fire Service can control or extinguish a fire with the water supply available.

The Fire Service recommends the installation of automatic fire detection devices such as smoke detection systems and fire protection systems such as sprinklers in buildings (irrespective of the water supply) to provide maximum protection for life and property.

Fire districts may have a range of water supply systems such as a fully reticulated water supply system (an urban water supply area), a rural water supply system that feeds a supply tank (a rural water supply area), or a stand-alone tank supply using rain water or a local well or bore for maintaining its contents.

Many areas outside fire districts will normally only have a rural water supply system or a stand-alone tank supply (although there may be some private reticulated water supply systems).

Where this code identifies firefighting water supply requirements for any of the three water supply systems above, these requirements can be used to provide advice for similar systems outside fire districts, that is, in rural areas.

In rural areas there may be water supply systems without firefighting capability. In many cases these systems are not sufficient for fire sprinkler systems unless stand-alone water supplies are provided. These are matters to be considered at the design stage of the sprinkler system.

In rural areas, the effectiveness of a water supply for firefighting is affected by the time and distance from a fire station, the fire loading in the structure, the speed of fire development, ready access to a sufficient quantity of water, and the seasonal sustainability of the water supply. Because structures remote from a fire station are significantly more at risk from fire outbreak, the Fire Service strongly recommends that sprinklers are installed in all structures (and specifically houses) sited more than a 10-minute response time from a fire station.

Property owners need to be aware that when considering fire risk, the provision of a readily available sufficient water supply will affect the extent to which a firefighting resource can save life and property. Should a fire occur, the Fire Service will still respond if called and will commence firefighting operations using whatever water is available, but delays in accessing a water supply allow a fire to continue to develop, to a size that more often results in a complete loss.

This code of practice defines the term firefighting water supply as, among other things, a supply of sufficient duration. Water supplies that are not of a duration considered sufficient by the Fire Service are still suitable for fighting fires. However they will not be classed as a firefighting water supply because in the opinion of the Fire Service they may not provide sufficient water to be able to mount an attack on a well-developed fire. The available water may be sufficient for a defensive fire attack aimed at preventing fire spread rather than rapid extinguishment.

Appendix B is intended to give guidance to territorial authorities, developers, and property owners on how water can be used to provide alternative firefighting water sources that the Fire Service can use in the event of a fire. The approach taken in this document is based on fire engineering principles using options for either a prescriptive or specific engineering solution.

This code of practice provides techniques to define a sufficient firefighting water supply that may vary according to circumstances. It relates to the Fire Service requirements only; territorial authorities and building owners may choose to exceed the provisions. SNZ PAS 4509 is written in a way that will encourage flexibility and provide different options for developers and territorial authorities.

This code of practice does not provide specifications for the total water supply required for the effective operation of fire protection systems that may be installed to protect structures or properties. Requirements for fire protection systems may vary and are dependent upon the system design parameters. Fire protection system water requirements must be considered in addition to firefighting water supplies (FW2 – see table 2) except for special or isolated cases (see Appendix C for guidance). If there are other users in the vicinity of the premises, then to comply with this code, it must be shown that all reasonable and appropriate steps have been taken to ensure that their expected usage has been taken into consideration in applying this code.

NOTE – Where a change of building use occurs, the existing water supply system should be evaluated against the requirements of the changed use and if there is a serious mismatch in requirements, this should be brought to the attention of the WSA and building owner.

1.2 Legal context

This code of practice is published under section 30(3) of the Fire Service Act. The code of practice is intended to assist the National Commander of the New Zealand Fire Service to carry out the duties specified in section 30(2) of the Act.

This code of practice is non-mandatory but could be incorporated into relevant bylaws under section 146(b) of the Local Government Act 2002 or district plans prepared under the Resource Management Act. It may also be referenced in New Zealand Standards and other Standards.

In doing so, the body incorporating the code must make a clear distinction between the obligation on the territorial authority and the water supply authority (WSA) to supply the water and the requirements (if any) placed on third parties to enable the respective authority to meet that obligation.

Section 92(2) of the Fire Service Act enables regulations to be made specifying requirements for fire hydrants. However, the National Commander considers that including guidelines on these requirements in this code of practice will be a more cost effective method for achieving appropriate standards through voluntary compliance. Regulations will only be resorted to if the guidelines in this code prove to be ineffective in achieving compliance.

In making decisions on water supplies, local authorities must consider the requirements of all relevant legislation. The main requirements are listed below.

1.3 Legislative requirements of territorial local authorities

1.3.1 Local Government Act

1.3.1.1 Summary overview

Under the Local Government Act 1974, territorial authorities are required to install fire hydrants, and to keep them charged.

The requirement to install fire hydrants is contained in section 647 of the Local Government Act 1974, which requires territorial authorities to provide fire hydrants on all reticulation water mains in such convenient places as it determines for extinguishing any fire, or in any fire district under section 26 of the Fire Service Act, as the New Zealand Fire Service Commission approves.

The requirement to keep pipes charged on which hydrants are fixed is contained in section 648 of the Local Government Act 1974.

Appendix D sets out the requirements of sections 647 and 648 of Part 39 of the Local Government Act 1974, and section 26 of the Fire Service Act.

1.3.1.2 Interpretation

Section 647 of the Local Government Act 1974 puts hydrants in two classes. The first relates to reticulations inside urban fire districts. Inside urban fire districts fire hydrants must be fixed in the water main pipes where a water supply is provided under section 130 of the Local Government Act 2002 as the New Zealand Fire Service Commission approves. SNZ PAS 4509 is a means of compliance with the Fire Service Commission's requirements.

NOTE – Section 130 of the Local Government Act 2002 does not apply to private water supplies.

The second group relates to reticulations outside urban fire districts. Fire hydrants must still be fixed in the water main pipes, but in this case it is the council that determines where they are installed. It is conceivable that some rural water supplies may have no firefighting capability at all.

1.3.2 Building Act

Section 18 of the Building Act states that building work must comply with the requirements of the New Zealand Building Code, and no more, unless expressly provided for in any other Act.

Section 46 requires copies of certain building consents to be provided to the Fire Service Commission, and under section 47 the Commission can offer advice on matters relating to provision for means of escape from fire, and could include firefighting water supplies. See Appendix E for more information on building consent documentation.

1.3.3 Resource Management Act

Territorial authorities control development and land use through their district plans, made under the Resource Management Act. Resource consents can include conditions that firefighting capability and fire hydrants are provided, but only insofar as the resource consent process allows. Matters that can be considered are those contained in the District Plan, the resource consent application, and in submissions.

1.3.4 Bylaws

Territorial authorities can make bylaws to manage water supplies. NZS 9201.7 provides a means by which local authorities determine urban water supply areas and rural water supply areas.

1.4 Interpretation

Clauses prefixed 'C' and printed in italic type are intended as comments on the corresponding clauses. They are not to be taken as the only or complete interpretation. This code of practice can be complied with if the comment is ignored.

2 **DEFINITIONS AND ABBREVIATIONS**

2.1 **Definitions**

Words and phrases used in this code of practice that are defined in the Fire Service Act have the same meanings as defined in the Act.

Additional water Remaining half of total stipulated firefighting

water within 270 m of (main entrance into)

structure

Alternative firefighting water

source

A non-reticulated supply available for firefighting meeting the requirements outlined

in Appendix B

Approved Standard A Standard listed in Appendix F

Approved tester A person authorised by the water supply

> authority or the National Commander as competent to conduct measurements of flow and pressure, to test the adequacy of

firefighting water supplies

Building Consent

Authority

A Building Consent Authority as defined in the Building Act 2004 and includes a Territorial Authority or a private body acting within the

scope of their approval

Couplings See Fire Service coupling

Distance (from a fire hydrant or alternative

firefighting water

source)

Distance is measured from the fire hydrant or alternative firefighting water source to the main entrance of the building or structure, or as agreed with the Fire Region Manager

Dynamic pressure See Running pressure

Extra high hazard Commercial and industrial occupancies

having high fire loads

NOTE - Taken from NZS 4541 which provides

further information.

Extra light hazard Non-industrial occupancies where the

amount and combustibility of the contents is

low

NOTE - Taken from NZS 4541 which provides

further information.

Firecell Has the same meaning as in the New

Zealand Building Code, Clause A2

Fire district

See Urban fire district

Firefighting water supply Supply of water, available to the Fire Service for firefighting, that complies with this code of practice; where reticulated, the required flow of water is at a minimum running pressure and of sufficient duration

Fire hazard

The danger of potential harm and degree of exposure arising from:

- (a) The start and spread of fire; and
- (b) The smoke and gases that are generated by the start and spread of fire

Fire hazard category

The number (graded 1 to 4 in order of increasing fire severity) as defined in the Compliance Documents for the New Zealand Building Code, Acceptable Solution C/AS1

Fire hydrant

An assembly usually contained in a pit or box below ground level and comprising a valve and outlet connection from a water main, to permit a controlled supply of water for firefighting. A pillar upstand connected to a water main and fitted with a valve and instantaneous coupling(s) adaptor will also constitute a fire hydrant. This does not include ball-type fire hydrants

Fire protection system Includes detection, alarm, and suppression systems installed and maintained for ongoing compliance with approved Standards

Fire Service coupling

Fittings or devices conforming with the Standard(s) listed in Appendix F3 that permit the connection of fire hose or firefighting waterway equipment to a source of water supply

Hardstand

A hard (roading) surface capable of withstanding the fully laden weight of a fire appliance from which fire operations for a structure are conducted. The size of a hardstand must include sufficient room for the fire appliance to enter, exit and manoeuvre and for firefighters to move around it to connect hose and safely access equipment. In most cases the hardstand will be the main road if the structure is close to it

Indexed or key fire hydrant

A fire hydrant with flow characteristics that are representative of that part of the network.

The criteria to determine an indexed or key

fire hydrant are set out in G5.1

Local authority As defined by section 5 of the Local

Government Act 2002. A regional council or

territorial authority

Ordinary hazard Commercial and industrial occupancies

involving the handling, processing and storage of mainly ordinary combustible materials unlikely to develop intensely burning fires in the initial stages

NOTE - Taken from NZS 4541 which provides

further information.

Peak demand The water supply flow for domestic and

commercial use as determined by the water

supply authority

Private fire hydrant A fire hydrant not owned by a water supply

authority. Water from such a fire hydrant may be included in firefighting water supplies, if the fire hydrant complies with approved Standards and is sufficiently maintained

Residual pressure See Running pressure

Required water flow Half of total stipulated firefighting water within

135 m of (main entrance into) structure

Roof vent A part of the building which can be relied

upon to provide ventilation, mechanical or

otherwise

Running pressure The water pressure in a water main as

measured at an adjacent fire hydrant when

the fire hydrant in use is fully open

Rural water supply

area

An area formally designated by a water supply authority as an area serviced by a reticulated water supply system that is intended to supply water for specified purposes via restricted flow supplies and/or

on-demand supplies but not necessarily with

a firefighting capability

Static pressure The water pressure in a water main as

measured when none of the fire hydrants are

open

Territorial authority A city or district council

Urban fire district A fire district declared or constituted under

section 26 of the Fire Service Act

Urban water supply

area

An area formally designated by a water supply authority as an area serviced by a reticulated water supply system with a firefighting capability, that is intended to supply water to customers via on demand

supplies

Water supply authority (WSA) The operational unit of the Council

responsible for the supply of water, including

its authorised agent

NOTE - Taken from NZS 9201.7 which provides

further information.

Water supply classification An index assigned to a group of fire hydrants or alternative firefighting water sources that meet the specifications contained in table 2

2.2 **Abbreviations**

The following abbreviations are used in this code:

CBD Central business district EHH Extra high hazard **ELH** Extra light hazard FΗ Fire hazard **FHC**

Fire hazard category

FW Fire water classification number

HRR Fire heat release rate

Land Transport Safety Authority **LTSA**

Measure of the acidity or alkalinity of water pН

NZFS New Zealand Fire Service

ОН Ordinary hazard

PRV Pressure reducing valves

RRPM Raised reflective pavement markers

WSA Water supply authority

3 SYMBOLS AND UNITS

The following general symbols and units are used in this code of practice together with others specific to certain applications:

Symbol	Quantity	Unit
A_{exp}	Surface area of adjacent firecell(s) and/or	
	structure(s) exposed to a firecell involved in fire	m^2
A_{fuel}	Surface area of fuel	m^2
A_h	Area of horizontal opening	m^2
A_{v}	Area of vertical openings	m^2
H_{v}	Weighted average height of vertical openings	m
H_{m}	Vertical height from the mid-height of the window	
	opening to the mid-height of the horizontal opening	m
$M_{\rm exp}$	Required water flow rate to protect the exposure	L/s
M_{fuel}	Mass of fuel in the firecell	kg
$M_{ m water}$	Water flow rate required for firefighting	L/s
t_{fire}	Fire duration	S
Q_{fire}	Smaller value of Q_{vent} or Q_{fuel} for a firecell	MW
Q_{fuel}	Rate of heat release from the fuel controlled fire	MW
Q "fuel	Rate of heat release per unit area of fuel burning	MW/m^2
Q_{max}	Maximum rate of heat release from fire	MW
Q_{vent}	Rate of heat release from ventilation controlled fire	MW
ΔH_{c}	Fuel calorific value	MJ/kg

4 USE OF THE CODE OF PRACTICE

4.1 Application

Although this code of practice has been developed for urban fire districts, these provisions are also intended to provide a guide for minimum firefighting water to other areas.

This code of practice is for the use of territorial authorities, water supply authorities, and the Fire Service to establish the quantity of water required for firefighting purposes in relation to the fire hazard in premises located in urban fire districts and to provide guidance in rural areas. It can also be used by developers and property owners to assess the adequacy of the firefighting water supply to new or existing premises.

The code of practice is based on an assessment of the water supplies needed to fight a fire and to limit fire spread. The firefighting water supplies required to address the fire hazard may be established by use of tables, or by calculation (see 4.4).

For any premises, this code of practice establishes the minimum firefighting water supply that is required for the fire hazard. To comply with this code of practice it must be shown that this minimum supply is designed to be available at all times as far as practicable. If it is not then either the supply must be increased or the fire hazard in the premises must be reduced.

This code of practice provides for minimum flows for firefighting water supplies and makes recommendations on the level of domestic and fire sprinkler system demand that water reticulations should deliver concurrently with firefighting water.

Fire service personnel giving advice on firefighting water supplies must do so in accordance with this code of practice.

For planning purposes, the territorial authority or water supply authority may choose to provide a firefighting water supply in accordance with a water supply classification selected from table 1. Any deficiencies identified for particular premises would have to be remedied by increasing the firefighting water supply or reducing the fire hazard in order to meet the requirements of this code.

Under sections 647 and 648 of the Local Government Act 1974, territorial authorities are required to install fire hydrants, and to keep them charged. See 1.3 for further information.

4.2 Classification of water supply

The Fire Region Manager, in consultation with the WSA, shall establish the requirements of the reticulated water supply in accordance with table 2.

It is recommended that water supply systems be designed to provide 60% of annual peak demand in addition to the fire flow. Fire flows are derived from table 2 or by way of the calculation methods outlined in Appendix H and Appendix J.

4.3 Method for determination of firefighting water supply

Compliance with the requirements set out in tables 1 and 2 will meet this code of practice. Fire hazard categories are determined from the methods given in the Compliance Documents for the New Zealand Building Code, Clause C/AS1.

For isolated fire hazards in an area with a lower water supply classification, a risk assessment should be carried out to determine measures to mitigate the hazard or increase the water supply (see 4.4).

4.4 Method for calculation of firefighting water supply

Fire engineers or similar competent persons may use alternative methods, such as those detailed in Appendix H and Appendix J to determine firefighting water supplies. To comply with this code of practice, such alternatives must be submitted for approval to the person(s) nominated by the National Commander. The person(s) so nominated will approve these cases on confirmation that the method and calculations used are correctly applied.

Alternative methods will need to show that the calculated firefighting water supply makes allowances for tactical flow rates (that is, the amount needed above a theoretical amount to absorb the released heat for operational effectiveness).

Table 1 – Method for determining required water supply classification

FW2

FW7

Sprinklered structures	
Category	Water supply classification (see table 2)
Single family homes with a sprinkler system	FW1

an approved Standard

Non-sprinklered structures

installed to an approved Standard

All other structures (apart from single family homes) with a sprinkler system installed to

Category	Water supply classification (see table 2)
Housing; includes single family dwellings,	
multi-unit dwellings, but excludes multi-	FW2

storey apartment blocks															
All other structures (characterised by fire hazard category ⁽¹⁾), examples of which					\	Nater su	pply cla	assifica	tion (see	table 2	?)				
	Floor area of largest firecell of the building (m ²)														
are given below	0-	200-	400-	600-	800-	1000-	1200-	1400-	1600-	1800-	2000-	2200-	2400-	2600-	>
	199(10)	399	599	799	999	1199	1399	1599	1799	1999	2199	2399	2599	2799	2800
FHC 1 ⁽²⁾	FW3	FW3	FW3	FW4	FW4	FW4	FW5	FW5	FW5	FW5	FW5	FW5	FW5	FW5	FW6
FHC 2 ⁽³⁾	FW3	FW3	FW4	FW5	FW5	FW5	FW6	FW6	FW6	FW7	FW7	FW7	FW7	FW7	FW7
FHC 3 ⁽⁴⁾	FW3	FW4	FW5	FW5	FW6	FW6	FW7	FW7	FW7	FW7	FW7	FW7	FW7	FW7	FW7
FHC 4 ⁽⁵⁾	FW4	FW6	FW6	FW6	FW6	FW7	FW7	FW7	FW7	FW7	FW7	FW7	FW7	FW7	FW7

For special or isolated hazards not covered in above categories ⁽⁹⁾

NOTE -

- (1) Fire hazard category as defined in the compliance documents for the New Zealand Building Code, Acceptable Solution C/AS1.
- (2) FHC 1 is sleeping activities including care facilities, motels, hotels, hostels; crowd activities of <100 people including cinemas, art galleries, community halls, lecture halls, churches; working/business/storage activities processing non-combustible materials such as wineries, cattle yards, horticultural products; multistorey apartment blocks.
- (3) FHC 2 is crowd activities of >100 people, libraries, book storage, night clubs, restaurants; working/business/storage activities with low fire load such as hairdressers, banks, medical consulting rooms, offices.
- (4) FHC 3 is working/business/storage activities with medium fire load such as manufacturing, processing, bulk storage up to 3 metres.
- (5) FHC 4 is working/business/storage activities with high fire load such as chemical manufacturing, feed mills, plastics manufacturing, supermarkets or other stores with bulk display over 3 metres.
- (6) For special or isolated fire hazards in an area with a lower water supply classification, an assessment should be carried out to determine measures to mitigate the hazard or increase the water supply (see 4.4).
- (7) The values in the table were determined by heat release rate modelling for fully developed fires.
- (8) All non-sprinkler protected structures, except houses, have an entry level of FW3.
- (9) Examples of special or isolated hazards may include bulk fuel installations, timber yards, tyre dumps, wood chip stock piles, recycle depots, and marinas.
- (10) For non-sprinkler protected fire hazard category 1 structures less than 50 m² in floor area, the FW3 requirement may be reduced by up to 50% with the agreement of the Fire Region Manager. Examples of the sorts of structures intended to be covered by this comment are predominantly garages, sheds, and outbuildings.

Table 2 – Method for determining firefighting water supply

	Ret	Non-reticulated water supply					
Fire water classification	Required water flow within a	Additional water flow within a	Maximum number of fire hydrants to provide flow	Minimum water storage within a distance of 90 m (see Note 8)			
	distance of 135 m	distance of 270 m		Time (firefighting) (min)	Volume (m ³)		
FW1	/1 450 L/min (7.5 L/s) (See Note 3)		1	15	7		
FW2	750 L/min (12.5 L/s)	750 L/min (12.5 L/s)	2	30	45		
FW3	1500 L/min (25 L/s)	1500 L/min (25 L/s)	3	60	180		
FW4	3000 L/min (50 L/s)	3000 L/min (50 L/s)	4	90	540		
FW5	4500 L/min (75 L/s)	4500 L/min (75 L/s)	6	120	1080		
FW6	6000 L/min (100 L/s)	6000 L/min (100 L/s)	8	180	2160		
FW7		As calculated (see Note 7)					

NOTE -

- (1) Table 1 lists the minimum requirements for firefighting water supplies. In developing towns' main reticulation systems, a water supply authority needs to cater for domestic/industrial water usage in addition to the above. This procedure is outlined in Appendix K.
- (2) Special or isolated fire hazards which have higher requirements in an area of lower water supply classification must determine measures to mitigate the hazard or increase the water supply (see 4.4).
- (3) Where houses have a sprinkler system installed to an approved Standard, the distance to a fire hydrant or alternative water supply may be negotiated by agreement with the Fire Region Manager.
- (4) The water requirements for fire protection systems must be considered in addition to the firefighting water supplies, as detailed in table 1 (FW2), the fire protection system demand plus 1500 L/min (25 L/s) at 1 bar residual pressure.
- (5) The minimum flow from a single hydrant must exceed 750 L/min (12.5 L/s), except for those cases where a home sprinkler is installed, in which case the minimum is 450 L/min (7.5 L/s) while the maximum design flow, for safety reasons, is limited to 2100 L/min (35 L/s).
- (6) If the minimum water storage requirement as listed in the above table is not available from the reticulated system (reservoir), water can be sourced from an 'alternative supply' as approved by the Fire Region Manager. This water supply must always be within 90 m of the fire risk.
- (7) FW7 is for either special or isolated hazards or where the fire hazard due to the size of the largest firecell and its fire hazard category make specific fire engineering assessment necessary. Appendix H and J must be used as the basis for calculating this required firefighting water supply.
- (8) See Appendix B.

Commentary to table 2

Example 1

A subdivision is planned for the provision of light industrial buildings all on individual 1000 m² sections as zoned in the Council's District Plan. What firefighting water (for the purposes of sizing the water main) is required to be provided to these at present vacant sections assuming that none of those buildings are intended to be sprinkler protected?

Solution

The answer to this depends principally on the size of the largest firecell of the buildings which will be built, most of which will likely be a single firecell, but as this isn't known at this stage of the land development some estimate must be made. If one assumes that on a $1000 \, \mathrm{m}^2$ section building is likely to cover between 40% to 79% of this area, then the buildings are approximately at least $400 \, \mathrm{m}^2$ to $790 \, \mathrm{m}^2$ in size, and for light industrial most likely of Fire Hazard Category 3 (FHC3). Therefore they require a firefighting water supply of FW5 as determined from table 1.

The territorial authority or water supply authority thus decides that the installed inground reticulated water main must supply (just for the purposes of firefighting alone) 9000 L/min (150 L/s). If any buildings subsequently built exceeded this FW5 criterion then either the building could have a sprinkler system installed, or be compartmented into smaller firecells (to reduce the FW classification), or the water main would need to be upgraded, or a water storage tank appropriately sized and positioned on site to make up the shortfall. As an example say a FHC4 building was proposed some years later at a size of 650 m². This requires a FW6 classification which is 12 000 L/min (200 L/s).

Therefore either the main is required to be upgraded to meet this or the 180 minutes of expected firefighting at the shortfall of 3000 L/min (50 L/s) means a (180 min x 3000 L/min (50 L/s)) 540 000 L water storage tank is positioned on a site suitably placed to enable Fire Service vehicular access with suitable couplings for direct Fire Service connection.

Example 2

A FHC4 building of size 800 m² requires a FW6 classification as assessed from table 1, but is located in an area that only supplies a reticulated water supply capable of supplying FW5. If upgrading of the water main is impractical at this stage the options are:

- Install an approved automatic fire sprinkler system which drops the FW classification to FW2;
- (b) Divide the building into firecells no larger than 199 m², which then only require a FW4 classification; or
- (c) Install on site (with the approval of the Fire Region Manager) the shortfall of firefighting water as determined by the firefighting time of 180 minutes x [12 000 L/min (200 L/s) (FW6) 9000 L/min (50 L/s) (FW5)] which equals 540 000 L.

4.5 Assessment

Appendix H describes a method for determining the maximum fire size in a structure.

Appendix J describes a method for assessing the adequacy of the firefighting water supply to the premises.

Where the available water supply meets or exceeds the required firefighting water supply, the water supply may be assumed for the purposes of section 30(2) of the Fire Service Act to be sufficient.

Where the available water supply is insufficient for firefighting purposes, steps must be taken either to improve the supply or reduce the maximum fire size. Use of Appendix H and Appendix J will indicate the options available in a particular situation.

4.6 Recording of water requirements

Where firefighting water requirements are determined using Appendix H and Appendix J, the Fire Service and the WSA shall keep records of the calculated values.

5 RUNNING (DYNAMIC) PRESSURE

The Fire Service controls water flow from water mains using the pumps on the fire appliance. The minimum running pressure in the water main should not be less than 100 kPa while the water main is flowing the required amount of water from the maximum number of fire hydrants. The minimum running pressure is also known as the residual pressure.

Due to the bore size of a standpipe, the maximum safe flow for design purposes (assuming pressure in the street water main is not a limiting factor) from a hydrant/standpipe assembly is 2100 L/min (35 L/s). Therefore if a structure risk required a firefighting water supply of 6000 L/min (100 L/s), then no less than three hydrants should be located (preferably as a hydrant group) in close proximity to the hardstand.

NOTE – For health and safety, and operating reasons, the Fire Service specifies a maximum working pressure for layflat hoses of 1050 kPa.

6 FIRE SERVICE VEHICLE ACCESS TO WATER SOURCE

6.1 Background

The adequacy of a firefighting water supply includes not only an assessment of the water supply that must be available, but also the location, connections, marking, and access to fire hydrants to enable the water supply to be used.

Roading widths, surface, and gradients where hydrants are located should support the operational requirements of Fire Service appliances. The Compliance Documents for the New Zealand Building Code specify these requirements and have final authority, but in general the roading gradient should not exceed 16%. The roading surface should be sealed, and trafficable at all times. The minimum roading width should not be less than 4 m. The height clearance along access ways (for example trees, hanging cables, and overhanging eaves) must exceed 4 m.

6.2 Fire hydrant location

The location of fire hydrants must follow the provisions contained in Appendix L. This code of practice does not necessarily require fire hydrants to be spaced at regular intervals on water mains.

6.3 Uncharged water mains

The WSA should advise the Fire Service as soon as practicable when new water mains are charged and commissioned or existing water mains are decommissioned and when reinstated either temporarily or permanently. Fire hydrant boxes, lids, markings, and marker posts must be removed from abandoned water mains.

NOTE – It is advised that the building owners should inform the insurers if a water main is uncharged for more than 12 hours.

6.4 Hardstand requirements

For a fire appliance to be effective it needs to be able to park in an area as close as possible to both the available water supply and the structure to be protected. This area is termed the 'hardstand'. For the standard fire appliance this area should not be less than 4.5 m in width by 11 m in length. However, given that the turning circle for this appliance is approximately 17.5 m all reasonable effort should be made to meet this length.

NOTE – An aerial fire appliance has a turning circle of 24.5 m and needs a width of 6 m to enable the stabilising struts to be deployed.

6.5 Access to alternative firefighting water sources

Where a sufficient firefighting water supply cannot be obtained solely from a reticulated supply, certain provisions must be followed to ensure the accessibility and usability of alternative firefighting water sources for firefighting purposes. These provisions are set out in Appendix B.

7 INSPECTION AND TESTING OF FIRE HYDRANTS

The Fire Service Act allows for the Fire Service to check, in any urban fire district, or in any area concerning any property that the Fire Service is under an obligation to protect pursuant to section 38 or section 39 of the Fire Service Act, the adequacy of firefighting water supplies, including volume and pressure in any water main, and to advise the WSA as to their sufficiency or otherwise. A best practice guide for the inspection of fire hydrants and the testing of firefighting water supplies is given in the Fire Service training note *Flow testing of water mains and hydrant inspections*. (See also Appendix G.)

Where a firefighting water supply is from private fire hydrants and water mains, an inspection and testing programme of fire hydrants must be agreed between the owner of the premises and the approved tester in accordance with Appendix G.

8 FIRE PROTECTION SYSTEMS

Fire protection systems protecting premises must comply with approved Standards, including testing and maintenance regimes, if their use is to be included in the assessment of fire hazard as set out in Appendix H. A list of approved Standards is provided in Appendix F.

9 DISPUTES

In the event of a dispute about the application or interpretation of this code of practice, any party to the dispute may refer the dispute to the Fire Service National Commander in writing. The National Commander may determine the matter in dispute in any manner the National Commander considers appropriate. In making a decision on the dispute, the National Commander will follow a process that is fair and reasonable in the circumstances (including providing an opportunity for all affected parties to be heard). When making a decision on a dispute the National Commander will give reasons for the decision.

APPENDIX A - OTHER RELEVANT DOCUMENTS

- Babrauskas, V, and Peacock, R D. 'Heat release rate: The single most important variable in fire hazard', *Fire Safety Journal.* Vol. 18, No. 3. (1992): 255 272.
- Buchanan, A H (ed). Structural design for fire safety. Chichester, New York: John Wiley and Sons, 2001.
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- Grant, G B, and Drysdale, D D. A review of the extinction mechanisms of diffusion flame fires. Fire Research & Development Group, 1996.
- Grant, G B, and Drysdale, D D. The suppression and extinction of Class 'A' fires using water sprays. Fire Research & Development Group, 1997.
- Janssens, M. Heat Release Rates in Fires, Ch. 6, Editors, Babrauskas, V, and Grayson, S. Elsevier Applied Science Publishers Ltd: London, UK, 1992.
- Rasbash, D J. 'The extinction of fire with plain water': A review. Proceedings of the first international symposium of fire safety science. International Association of Fire Safety Science, Gaithersburg, Maryland: USA, 1986.
- Särdqvist, S. An engineering approach to firefighting tactics, Lund University, Sweden: Dept. of Fire Safety Engineering, 1996.
- Zicherman, J (ed). *Fire safety in tall buildings*, for the Council on Tall Buildings and Urban Habitat, McGraw-Hill Inc, New York, 1992.

APPENDIX B – ALTERNATIVE FIREFIGHTING WATER SOURCES

B1 Use of alternative firefighting water sources

Where reticulated water supplies are unavailable or insufficient, alternative firefighting water sources may be used to provide a firefighting water supply. Alternative sources may come from a mixture of reticulated and static supplies.

Alternative firefighting water sources should meet minimum standards for firefighting (access, security, visibility, adequacy of supply) and have a suitable fire service coupling for firefighting equipment and be sited to provide safe and ready access for Fire Service operations.

NOTE – Where plastic tanks are used for storing firefighting water, consideration needs to be given to shielding them from the effects of radiated heat from a fire.

Where this code of practice is applied in areas outside urban fire districts, Fire Service personnel giving advice on the adequacy of water volumes should take into account any special circumstances such as distance to the nearest fire station, size of buildings and normal use of water from any storage tank when recommending total storage volume.

B1.1 Security

The water supply must be reasonably protected from vandalism and tampering that may negate it being usable, for example, with a locked off (with a lightweight chain) valve on the outlet pipe that can be cut with bolt cutters to access.

B1.2 Firefighting access

There should be unimpeded access within the specified 90 m distance to a building allowing vehicular access to the firefighting water supply at all times, with the roading able to support a 20 tonne vehicle. In making an allowance for access, consideration must be taken of the complete travel route and access way widths, entry and exit ways, room to manoeuvre, obstructions (overgrown vegetation, hanging cables and building projections), gradients, gateways, and road surfaces. Where, due to the siting of the water tank, vehicle access is not practical, there should be a clear, safe working area, to support the siting of a portable pump and associated equipment, providing agreement is obtained from the Fire Region Manager.

B1.3 Adequacy of supply

The owner must establish an acceptable means to reliably maintain any tank to a usable capacity.

Provision shall be made on all storage tanks and elevated tanks to:

- (a) Automatically keep the tank topped up;
- (b) Manually refill the tank after emptying.

The outlet pipe connection size must be calculated to provide, or be able to provide, 750 L/min (12.5 L/s) at the coupling. In general terms this measurement should be the same size as the fire service coupling complying with the approved Standards in Appendix F3. Where the distance between tank and coupling is excessive, for example, more than 50 m, then this distance will need to be taken into account in the calculation.

B1.4 Visibility

The firefighting water supply and firefighting access must be readily identifiable to responding firefighters by use of signs, marker posts or other suitable identifiers.

Alternative firefighting water sources in fire districts must be identified at the premises in a manner acceptable to the Fire Region Manager.

B1.5 Acceptable sources of supply

For any water supply (other than a reticulated supply), to be considered suitable for firefighting purposes, it must be proven reliable and accessible at all times.

B2 Suction sources

A suction source is accessible, open or tank water.

The maximum theoretical lift for Fire Service pumps is 10 m and the maximum practical lift is 7.5 m.

The rated capacity of a Fire Service pump is its output in L/min when working from a 3 m lift, see figure B1.

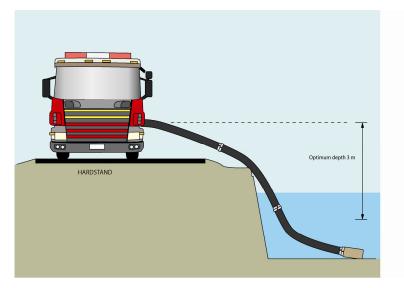


Figure B1 - Suction sources

The following figures show the greater the vertical lift to be overcome, the less water is delivered to the incident:

- (a) 3.0 m lift rated capacity of the pump;
- (b) 4.5 m lift 1/7 loss of capacity;
- (c) 6.0 m lift 1/3 loss of capacity;
- (d) 7.0 m lift 1/2 loss of capacity; and
- (e) 7.5 m lift 2/3 loss of capacity.

Alternatively, a fixed static pick-up pump fitted with a fire service coupling complying with the approved Standards in Appendix F, F3 may be permanently fitted to the source (see figure B2). In this case the vertical depth down from the appliance pump inlet to the water surface may be increased to 7.5 m. This reduces the time needed to make connections for draughting and allows water to be draughted down to the maximum practical depth.

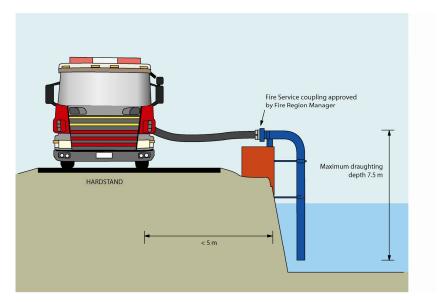


Figure B2 - Suction sources - fixed, static pick-up

There must be a hardstand for a fire appliance so that the appliance pump inlet is within 5 m of the water supply, or the permanent fire service coupling, if fitted. The premises must be within 90 m of the water supply, or the permanent fire service coupling, if fitted.

The fire service coupling to the suction source must be at the discretion of the Fire Region Manager of the urban fire district, complying with the approved Standards in Appendix F, F3. The fire service coupling must be located so that it is not compromised in the event of a fire.

See figure B4 for examples of how alternative water supplies can be delivered to within 90 m of a hazard.

B3 Flooded sources

A flooded source is a tank or supply more than 10 m above road level fitted with a fire service coupling, see figure B3.

There must be a hardstand for a fire appliance as close as reasonably practicable to the fire service coupling, but this distance should not exceed 25 m. The fire service coupling must be within 90 m of the premises (see figure B4).

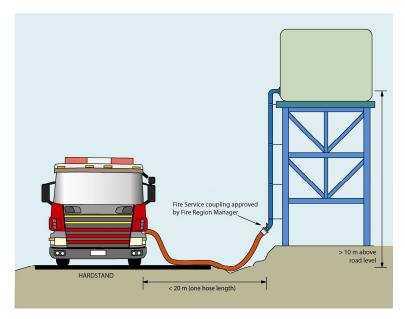
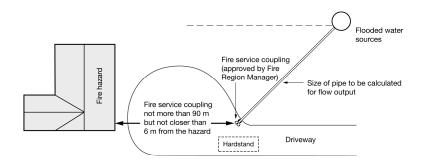


Figure B3 - Flooded sources - water supply above road level

The fire service coupling to a flooded source must be either a female instantaneous coupling or a fire hydrant coupling complying with the approved Standards in Appendix F, F3. The fire service coupling must be located so that it is not compromised in the event of a fire. The pipe work leaving the tank and just prior to terminating at the Fire Service coupling must be properly supported and bracketed. Where a supply tank is intended to be used as a supply for firefighting water, the tank manufacturer or the manufacturer's instructions should be consulted for the fitting requirements of fire service couplings and any associate pipework.

NOTE – Prior to committing to an installation, consult with the tank manufacturer on any restrictions to the size, and type of fitting, and that these are appropriate for the tank construction.



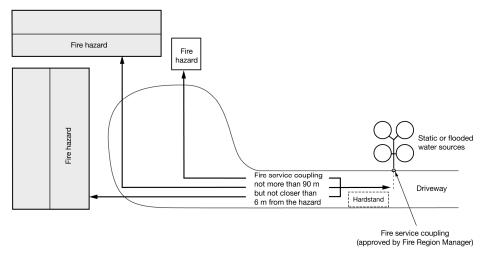


Figure B4 – Examples of how alternative water supplies can be delivered to within 90 m of a hazard

B4 Water pressure, flow, and volume for alternative firefighting water sources

For the purposes of calculation, the pressure at the Fire Service coupling must be assumed to be $-60\,\mathrm{kPa}$ for suction sources, and must be hydraulically calculated to give a minimum pressure of 100 kPa at the pump inlet for flooded sources at maximum design flow.

The required flow from an alternative firefighting water source must be determined from table 2 or calculated from Appendix J, taking into account any available reticulated supplies.

The adequacy of the flow from the alternative firefighting water source must be demonstrated to the satisfaction of the Fire Region Manager of the urban fire district.

The minimum available water storage volume must comply with table 2 or be calculated using Appendix J and the calculated duration of the fire.

The diameter of the pipe that connects the tank or reservoir to the fire service coupling (attachment point) must be sized to ensure that 100 kPa of pressure is maintained at the Fire Service pump inlet.

The firefighting water supply may be water from any year-round source such as:

- (a) Dams;
- (b) Water tanks;
- (c) Man-made pools and lakes (where the available water can be calculated);
- (d) Industrial cooling water (in consultation with owner);
- (e) Natural pools and lakes able to sustain a continuous accessible depth of at least 1 m;
- (f) Flowing river or stream water able to sustain a continuous accessible depth of at least 1 m;
- (g) Seawater able to sustain a continuously accessible depth of at least 1 m;
- (h) Grey water and recovered firefighting water;
- (i) Wells and bores; and
- (j) Fixed standpipes into shallow ground water aquifers.

B5 Unacceptable quality of supply

Notwithstanding B4, the following are unacceptable:

- (a) Water with dispersed solids greater than 2 mm in diameter;
- (b) Chemically contaminated water with a pH outside the limits of pH 3-10.5 that is, strongly acidic or alkaline; and
- (c) Biologically-contaminated water that would pose a health hazard to firefighters.

APPENDIX C - SPRINKLER DEMAND

Sprinkler systems are individually hydraulically calculated to establish design flows. However, **indicative** design flows are as in table C1.

Table C1 - Example of practical water requirements

Sprinkler system type	Typical design flow for sprinkler system	Flow for firefighting (see table 2)	Demand on water supply reticulation from the fire sprinkler system and for firefighting
Residential or housing domestic sprinkler	60 – 180 L/min	450 L/min	> 510 L/min
	(1.0 – 3.0 L/s)	(7.5 L/s)	(> 8.5 L/s)
Extra light hazard (ELH)	360 L/min	1500 L/min	1860 L/min
	(6.0 L/s)	(25 L/s)	(31 L/s)
Ordinary hazard (OH)	1200 – 1500 L/min	1500 L/min	> 2700 L/min
	(20 – 25 L/s)	(25 L/s)	(> 45 L/s)
Extra high hazard (EHH)	2400 – 6000 L/min	1500 L/min	> 3900 L/min
	(40 – 100 L/s)	(25 L/s)	(> 65 L/s) (see Notes)

NOTE -

To aid in determining the 'practical' water requirement flow for fire protection systems and firefighting water, table C1 gives examples of typical flows that could be expected under normal conditions. The following minimum flows are provided to help interpret the code requirements (see 1.1).

For example, if a node in a town water reticulation had a measured capacity of 8400 L/min (140 L/s), it would have been sized for the following criteria:

- (1) Two thirds of peak annual demand to cater for domestic supply = 5600 L/min
- (2) The calculated requirements of an OH sprinkler system in a building connected to = 1240 L/min the water main
- (3) Leaving an available water supply for firefighting (≥1500 L/min) = 1560 L/min

 Total 8400 L/min

⁽¹⁾ Due to the range of typical fire flows for EHH systems, consideration will need to be given to the premises that the systems are protecting.

⁽²⁾ For sprinkled buildings of classification ordinary hazard (OH) or lower, the Fire Region Manager may consider upon application the minimum flow in the water main to be the greater of either the firefighting or fire protection system requirements, but not necessarily both.

APPENDIX D - LEGISLATIVE REQUIREMENTS

Part 39 Local Government Act 1974 - Prevention of fires

Section 647 - Fire hydrants

- (1) In every part of the district in which there is a water supply provided under section 130 of the Local Government Act 2002, the council shall fix fire hydrants in the main pipes, other than trunk mains, of the waterworks at the most convenient places for extinguishing any fire as the council determines, or, in any part of the district that is included in a fire district under section 26 of the Fire Service Act 1975, as the New Zealand Fire Service Commission approves, and shall keep those fire hydrants in effective working order.
- (2) Where a water supply is provided in the district or in any part of the district by any other local authority, the council may arrange with that local authority to fix fire hydrants in the main pipes, other than trunk mains, situated in the district or in that part, as the case may be.
- (3) Fire hydrants shall be fixed at such distances from each other as the council decides or, in the case of hydrants fixed in any part of the district that is included in a fire district of the New Zealand Fire Service Commission, as that Commission approves.
- (4) The council shall put near each fire hydrant a conspicuous notice or a mark of a kind approved by the New Zealand Fire Service Commission, in the case of a hydrant fixed in any part of the district that is included in a fire district of that Commission, or, in any other case, approved by the council, showing the situation of the hydrant, and that notice may, if the council thinks fit, be put on any structure.
- (5) In this section the term trunk main means a main used for the purpose of conveying water from a source of supply to a filter or reservoir, or from one filter or reservoir to another filter or reservoir, or for the purpose of conveying water in bulk from one part of the limits of supply to another part of those limits, or for the purpose of giving or taking a supply of water in bulk.
- (6) Where the council is dissatisfied with any decision of the New Zealand Fire Service Commission under this section, it may, within one month after receiving notice of the decision, appeal against that decision to a District Court, whose decision shall be final.

Section 648 - Pipes to be kept charged with water

- (1) Except in case of unusual drought, or of accident, or of shortage from any cause of the water supply, or during necessary repairs, connections, or inspections, or in a case of a state of emergency declared under the Civil Defence Emergency Management Act 2002, the council must at all times keep charged with water the pipes in which fire hydrants are fixed by the council under section 647.
- (2) Subject to the overall requirements of any Controller while a state of emergency exists under the Civil Defence Emergency Management Act 2002, the council must allow all persons to take and use water from any waterworks or water race for extinguishing fire without any payment for the same.

Part 3 Fire Service Act 1975 - Organisation of fire service

Section 26 - Fire Districts

- (1) Every united urban fire district, urban fire district, and secondary urban fire district which existed immediately before the commencement of this Act is hereby declared to be a Fire District under this Act.
- (2) Where the Commission is satisfied that the fire protection of any urban area can be more effectively carried out:
 - (a) By the inclusion of that urban area in an existing Fire District;
 - (b) By the constitution of that urban area as a Fire District, the Commission may by notice in the Gazette, at the request of a territorial authority or of its own motion, include that urban area in an existing Fire District or constitute it a Fire District accordingly. The same or any subsequent notice in the Gazette shall:
 - (c) Specify the date on which the area is to be included in or, as the case may be, constituted a Fire District:
 - (d) Assign a name or designation to the Fire District.
- (3) Any Fire District constituted under this section may include the whole or any part of any existing Fire District.
- (4) The Commission may, by notice in the Gazette, alter the boundaries of, or abolish, any existing Fire District. The same or any subsequent notice shall specify the date on which the boundaries are to be altered or, as the case may be, the Fire District is to be abolished.
- (5) Notwithstanding anything in the Local Government Act 2002, the Local Government Commission shall not prepare any scheme providing for the constitution or abolition or alteration of the boundaries of any Fire District.

APPENDIX E – PROCEDURE AND CHECKLIST FOR BUILDING CONSENT DOCUMENTATION

The following checklist is intended to aid territorial authorities (and those applying for a building consent) in assessing the adequacy of (or providing) the firefighting water supply requirements to meet this code of practice.

E1 Step 1 Firefighting water supply classification

From table 1 state the required firefighting water supply (FW) classification for the structure to be built. This is based upon the type of occupancy, and whether it is sprinkler protected, but if not then the fire hazard category (FHC) and largest firecell size.

E2 Step 2 Location of fire hydrants

On a to-scale site plan, show the location (and main entrance/s) of the to-be-built structure/s, detail the current available firefighting water supply, by labelling the exact location, pressure, and flows of the nearest (street) fire hydrants. The distance/s to the first fire hydrant/s should not exceed 135 m and to the second fire hydrant/s to not exceed 270 m. See figures L2(a)-(c). Hydrant flow tests should be conducted at peak times (6.30am to 8.30am or 6.00pm to 8.00pm) subject to water discolouration issues, and include time, date, and tester details.

E3 Step 3 Firefighting water supply

If the available firefighting water supply provided by the fire hydrants meets or exceeds the required FW classification of a structure as outlined in table 2, or by calculation using Appendix H and J, then no further action is required.

E4 Step 4 Alternative firefighting water supply

However if any (or all) firefighting water supply is provided by alternative means, the locations and quantities of this stored water (most often water tanks) must be detailed on this 'to-scale' site plan. Where alternative firefighting water is to be provided, the site plan must show how Fire Service vehicular access is provided within the required distance and label a 'hardstand' location (see 6.4). To assess whether the proposed alternative firefighting water is acceptable, see Appendix B.

E5 Step 5 Fire Service couplings

The supplied documentation must specify the appropriate Fire Service couplings to access any stored water suitable for Fire Service connection. These are detailed in SNZ PAS 4505.

E6 Example 1

A house (without a sprinkler system) is to be built at the back of a subdivided section. Reticulated water is available from a street main, which has fire hydrants.

Step 1 = FW2, non-sprinkler protected house (of proposed floor area = 200 m²)

Step 2 =

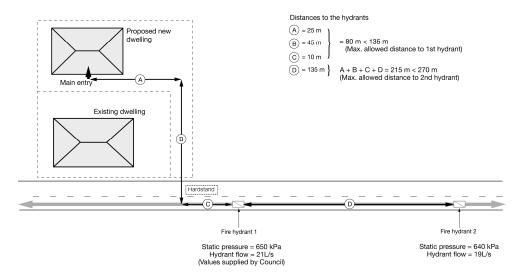


Figure E1 – Firefighting water supply requirements for a non-sprinklered house with access to a reticulated supply

Step 3 = FH1 = 21 L/s at 650 kPa > 12.5 L/s at the minimum 100 kPa (FW2) within 135 m.

FH2 = $19.5 \, \text{L/s}$ at $640 \, \text{kPa} > 12.5 \, \text{L/s}$ at the minimum $100 \, \text{kPa}$ (FW2) within 270 m.

Therefore code of practice requirements have been met, no further action needed.

Step 4 = Not applicable

Step 5 = Not applicable

E7 Example 2

A house (without a sprinkler system) is to be built out in the country, where there is no street reticulation.

Step 1 = FW2 (non-sprinkler protected house of proposed floor area 300 m²)

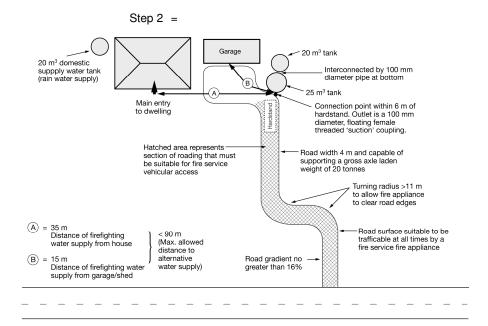


Figure E2 – Firefighting water supply requirements for an unsprinklered house with no access to a reticulated water supply

Step 3 = Not applicable

Step 4 = See plan. Conditions meet requirements as neither distance A or B exceed 90 m.

Step 5 = See plan. 'Suction coupling' compliant with SNZ PAS 4505 to be installed.

Total firefighting water supply = $20 \text{ m}^3 + 25 \text{ m}^3$ = 45 m^3 = FW 2

E8 Example 3

A house (with a sprinkler system compliant with NZS 4517) is to be built out in the country, where there is no street reticulation.

Step 1 = FW1 (sprinkler protected house) of proposed floor area 300 m^2

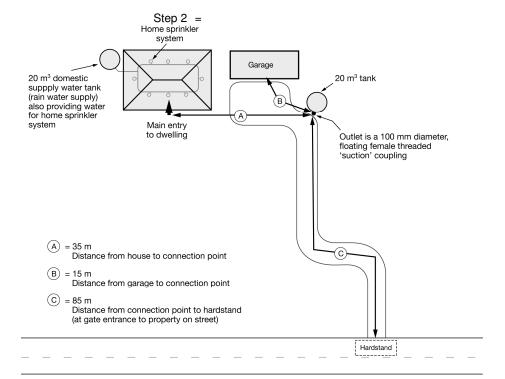


Figure E3 – Firefighting water supply requirements for a sprinklered house with no access to a reticulated water supply

Step 3 = Not applicable

Step 4 = Firefighting water proposed to be 20 m³ tank beside garage, which exceeds the required 7 m³ amount, and is within 90 m of the structures. However there is no Fire Service vehicular access to it, with the closest hardstand 85 m away and A + C = 120 m from the entrance to the furthest away structure. This distance should be within 90 m, however in discussion with the Fire Region Manager the use of portable pumps from the fire appliance are agreed to as is the extra distance.

Step 5 = Couplings suitable for a New Zealand Fire Service portable pump installed in both 20 m³ tanks compliant with SNZ PAS 4505.

APPENDIX F - APPROVED STANDARDS

F1 Fire protection Standards

NZS 4512:2003 Fire detection and alarm systems in buildings

NZS 4515:2003 Fire sprinkler systems for residential

occupancies

NZS 4517:2002 Fire sprinkler systems for houses

NZS 4541:2007 Automatic fire sprinkler systems

F2 Firefighting water connections

NZS/BS 750: Specification for underground fire hydrants and

1984 surface box frames and covers

NZS 4521:1974 Specification for boxes for fire brigade

connections

F3 Firefighting waterway equipment

SNZ PAS 4505:2007 Specification for firefighting waterway

equipment

F4 Fire hydrant marking

NZS 4404:2004 Land development and subdivision engineering

BS 3251:1976 Indicator plates for fire hydrants and emergency

water supplies

F5 Others

Other standards (including international Standards) may be applicable. Refer to the National Commander.

APPENDIX G – TESTING OF FIRE HYDRANTS

G1 Purpose

The Fire Service Act allows the Fire Service, from time to time, as it considers necessary, to check firefighting water supplies for (among other things) volume and pressure, and to advise the WSA on their sufficiency or otherwise.

When water testing is conducted by the Fire Service, it also enables the Fire Service to gather information about the water volume and pressure of any water systems that may be necessary for the operation of fire protection systems.

The testing of fire hydrants by the Fire Service is to be in accordance with the Fire Service training note on *Flow testing of water mains and hydrant inspections*. This training note must be followed by Fire Service personnel involved in water testing. For other approved testers, its provisions are advisory.

Fire hydrants should be tested during daily peak demand periods. Fire hydrant testing must have the approval of the water supply authority as described in G3.

NOTE -

- Attention is drawn to the need to meet other legislative (for example Health and Safety in Employment Act, Resource Management Act), and WSA requirements.
- (2) The release during testing of water from a hydrant that is discharged onto land or into water (for example, a stormwater drain) may require a consent from the regional council. Check with the local authority.
- (3) When carrying out fire hydrant tests, approved testers need to be aware that where large pressure reducing valves (PRVs) are installed, at low flows the running pressure will drop as expected. However, where large flows occur, the running pressure may rise then fall as the PRV attempts to maintain a set pressure. Similar results could be expected where reticulated supplies use manual or automatic booster pumps to maintain pressure at high flows.
- (4) Although the Fire Service tests fire hydrants to check firefighting water supplies, water supply authorities and other users operate fire hydrants for other purposes, such as removing air blocks.
- (5) A traffic management plan (TMP) should be approved by the road controlling authority (RCA) before conducting water testing on roadways.

G2 Responsibility for testing and inspecting

To ensure operational effectiveness, the Fire Service needs to monitor the adequacy of the firefighting water supply and the condition of fire hydrants. The maintenance of fire hydrants is the responsibility of the water supply authority or for private fire hydrants, the owner. Effective liaison with the water supply authorities is necessary in all matters related to water supplies. To comply with this code of practice, water supply authorities must ensure that fire hydrants are tested in accordance with this Appendix.

SNZ PAS 4509:2008

By agreement, testing and inspection of fire hydrants may be carried out by any of the following:

- (a) New Zealand Fire Service;
- (b) Water supply authority;
- (c) Approved tester.

For the duration of any test, the water supply authority may have representatives present.

G3 Notifications

To minimise the risk of damage to a water system, a formal procedure for notification needs to be agreed between those carrying out the testing and the water supply authority. The procedure should include:

- (a) Notification by agreed means to the water supply authority of an intention to test (testing would normally be carried out at times of peak demand);
- (b) Notification to give an agreed period of notice;
- (c) Notification to specify all fire hydrants to be tested and the planned testing schedule;
- (d) Water supply authority to notify those conducting the test if the system is not under normal operational control;
- (e) Water supply authority to advise if there are reasons why the test should not be carried out as planned (for example, home haemodialysis, special commercial or industrial user);
- (f) Notification by agreed means to the appropriate authority of any intended disposal of water to drains;
- (g) Notification of results by agreed means to water supply authority;
- (h) Statement to WSA whether or not the water supplies are sufficient for firefighting.

G4 Fire hydrant inspections

All fire hydrants must be inspected and flushed every five years by an approved tester. To achieve this, a progressive inspection programme must be agreed between the Fire Service and the WSA.

Fire hydrant inspections include:

- (a) A visual check to ensure the fire hydrant is marked correctly;
- (b) A visual check of the condition of the fire hydrant box and lid, including fitting;
- (c) Identification of any debris or soil build-up in the fire hydrant box that would affect the operation of the fire hydrant;
- (d) Fitting a standpipe and flowing water to check the unobstructed flow of water and operation of the fire hydrant valve spindle;
- (e) With a blank cap in the open outlet of the standpipe and when water is flowing, gradually shut off the valve on the head of the standpipe so that the standpipe is pressurised to the pressure in the mains and check the hydrant flange gasket for leakage;
- (f) Any faults or leaks are to be reported to the water supply authority;

- (g) Inspection date and results are to be recorded in a manner agreed between the Fire Service and the water supply authority. These results are to be available to all interested parties; and
- (h) Shut down the fire hydrant and before leaving the site, check that there is no leakage.

Private fire hydrants should be inspected in a similar manner.

G5 Single fire hydrant tests

G5. 1

The Fire Service and the water supply authority are to consider all fire hydrants on a water supply system and jointly determine indexed or key fire hydrants. A key fire hydrant is one with flow characteristics that are representative of that part of the network.

The criteria to determine an indexed or key fire hydrant include:

- (a) A selected number of fire hydrants between isolating valves;
- (b) A selected number of fire hydrants on different pressure zones due to location or other agreed criteria;
- (c) Any fire hydrant considered by the Fire Service or water supply authority as an indexed or key fire hydrant;
- (d) Fire hydrants at high points of the reticulation, and any other locations where low supply pressures are to be expected due to conditions such as high industrial demand, pumping outage, reticulation valving, and so on.

NOTE -

- (1) It is important to identify fire hydrants that will experience the lowest supply pressure in order to assess the minimum allowable pressure of 100 kPa in any part of the reticulation.
- (2) Consideration should also be given to the pressure available to fire hydrants at high points in the reticulation when water is being drawn from lower levels, either from hydrants, by large industrial users, or at times of peak domestic demand.

Key fire hydrants must be tested to measure flow and pressure at least every five years. Where the flow and pressure from the fire hydrants under test does not meet the minimum values of section 5 and table J3, or the recorded calculated values, the WSA must be advised of the inadequacy.

Inspection date and test results are to be recorded in a manner agreed between the Fire Service and the water supply authority.

Where the necessary firefighting water is supplied by more than one fire hydrant, the capacity of a water main may be estimated as in G5.2.

G5. 2 Graph of pressure/flow characteristics of a hydrant supply

G5.2. 1

This method is suitable for single or multiple hydrant flow tests from single pipe or network systems on the same pressure zone.

A 1.85 semi-log graph is used for interpolating or extrapolating test results to establish expected pressure at a nominated flow. By using this type of graph, the pressure/flow characteristics of a hydrant supply can be represented by a straight line.

Step 1

In addition to the static pressure, two or preferably more readings of flow against pressure are recorded in the table at the bottom of the graph. The pressure is usually recorded in kPa, and the flow may be recorded in any convenient units (normally L/min or L/sec). These should include a static or no-flow pressure recording. The higher the test flows, the more accurate will be the graph.

Step 2

Plot these recorded values on the graph with the pressure recorded on the y-axis and the flow on the x-axis.

The x-axis points are established by selecting a suitable divisor and applying this to the recorded flow values. The divisor should be selected to enable the desired flow/pressure point to appear in the graph.

NOTE – For example, if the required flow is 8,400 L/min (140 L/sec) and the x-axis is numbered to 15, then a suitable divisor would be 10; 8,400 L/min (140 L/sec) would be represented by 14 along the x-axis.

By selecting a suitable value for the divisor, the graph is suitable for all flows.

Step 3

Draw a line-of-best-fit through the recorded points and extend it to the x-axis. This line is the characteristic line for that particular pipe or network and represents a good approximation of residual pressure for any assumed flow.

NOTE – For example, 8,400 L/min (140 L/sec) plotted on a graph numbered as in the above note would be represented by 14 on the x-axis. A vertical line from this point would intersect the characteristic line at the expected residual pressure for this flow.

G5.2. 2 Generating the 1.85 graph

A 1.85 graph can be constructed manually by establishing a series of 15 values (in the case of the example in G5.2.1) from a base measurement to the exponent of 1.85.

Step 1

Select a base measurement for the desired size of the graph. A base measurement of 1.0 mm will produce a graph to 15 which is approximately 150 mm wide; a base measurement of 1.5 mm will produce a graph approximately 300 mm wide.

In the case of a 1 mm base measurement, the x-axis numbers will be the 1-15 series. In the case of a base of 1.5 mm, the numbers will be represented by the series: 1.5, 3.0, 4.5, 6.0, and so on for 15 values.

Step 2

Construct a series of columns to the 1.85 exponent values measured from the zero point.

The rows representing the pressure values are linear.

NOTE – A good approximation of the above can be computer-generated by a spreadsheet program by entering a column width established from the exponential figures after subtracting the preceding value in each case. The column dimensions are displayed in the number of standard characters able to be accommodated in the column width which is slightly inaccurate in linear dimension.

The figures below in table G1 indicate the values for a graph based on 1.0 mm, see figure G1.

Table G1 - Values indicative of a graph on a linear scale

Linear scale	Exponential value of linear values = linear values to 1.85 power	Column width = exponential value – preceding value
1	1	1
2	3.61	2.61
3	7.63	4.03
4	13.00	5.36
5	19.64	6.64
6	27.52	7.88
7	36.60	9.08
8	46.85	10.25
9	58.26	11.41
10	70.79	12.54
11	84.45	13.65
12	99.19	14.75
13	115.03	15.83
14	131.93	16.90
15	149.89	17.96

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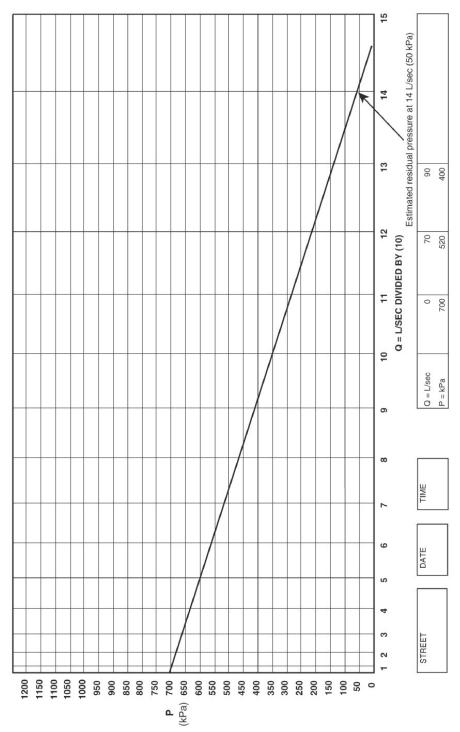


Figure G1 - Example of pressure/flow characteristic of a hydrant supply

G6 Comprehensive flow testing

Where the necessary firefighting water is supplied by more than one fire hydrant, a comprehensive flow test should be carried out.

NOTE – Refer to the New Zealand Fire Service training note on flow testing of water mains and hydrant inspections.

G7 Recording of test results

The results of the tests must be recorded in an appropriate manner agreeable to all parties involved.

The minimum details to be recorded are:

- (a) Date;
- (b) Time;
- (c) Location/address/identifier, of both the flowing hydrant(s) and the pressure hydrant;
- (d) Measured flow (L/s);
- (e) Static pressure: (kPa);
- (f) Running pressure (kPa);
- (g) Diameter of water main (mm);
- (h) Vertical height difference (approximate) between the flow and pressure hydrants.

From these details it is possible to calculate water mains capacity as indicated in G6.

G8 Computer modelling of water supplies

Where a computer modelling system has been assessed as accurate against ground tests, the Fire Service may accept the outputs from such modelling in place of testing of certain fire hydrants. This should not replace the testing of key fire hydrants.

APPENDIX H - CALCULATION OF MAXIMUM FIRE SIZE

H1 Overview

The methods outlined in Appendix H and Appendix J determine the maximum fire size and from this, the quantity of firefighting water required.

H2 Introduction

Appendix H outlines a method to calculate the maximum fire size. The result of this calculation is used in Appendix J to calculate the firefighting water required. The required firefighting water quantity is then compared with the available firefighting water supply to determine if it is sufficient. If insufficient to comply with this code, either the water supply must be increased or the maximum fire size reduced.

H3 Fire size

The maximum fire size occurs when:

- (a) The complete firecell is involved in fire;
- (b) The Fire Service begins applying effective firefighting water to the fire; or
- (c) An approved installed automatic sprinkler system operates (which is assumed to control the fire to the size it was when activation occurs).

In (a) the ignition is assumed to have occurred and the fire has grown till the fire is either constrained by the amount of ventilation or the quantity of fuel. This appendix provides a method to calculate the ventilation and fuel controlled fire size for each firecell within a structure. The smaller value is the limiting figure. This is repeated for all the firecells. The firecell with the largest fire size is then modified by two coefficients. The result of this calculation is used as the input to the firefighting water calculations outlined in Appendix J.

In (b) the fire growth is assumed to continue until the Fire Service intervenes by the application of water. The fire size is calculated using existing fire engineering methods. The derivation of time for Fire Service involvement will require input from the Fire Service.

In (c) the fire size and time of activation of the automatic sprinkler system are calculated by approved fire engineering calculation. The fire size is then assumed to be controlled to this level. Thus the total required water supply should be that required for the sprinkler system plus the remaining fire size, controlled by the sprinkler. For an example, see figure H1.

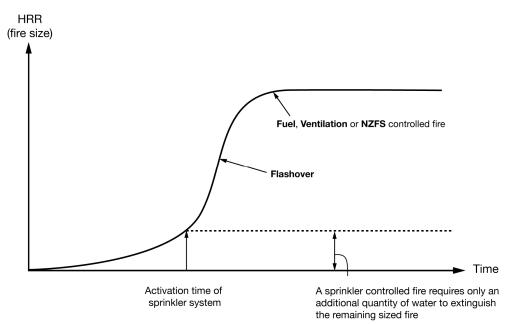


Figure H1 - Fire growth curve

H4 Outcome

The comparison of actual water quantities with required firefighting water quantities indicates whether sufficient firefighting water is available to treat the fire hazard.

If the available water is insufficient, then some remedial action should take place to either reduce the hazard or improve the water supply. If no remedial action takes place, the structure owner or their agent should be advised.

Firefighters can only actively control or extinguish a fire if they arrive before it gets too large. The Fire Service has insufficient resources to control a large post-flashover fire. For this reason, early notification is essential and hence the importance of either fire suppression or detection systems. Another alternative to limit the maximum fire size is the use of smaller firecells.

H5 Calculation of maximum fire size

This analysis assumes that the Fire Service will arrive after the fire has become fully involved in the firecell of origin and thus has involved the firecell but prior to the failure of the passive fire protection of the firecell. If this assumption is incorrect due to no or a low fire resistance rating or long brigade travel times, then calculation of the fire size must assume a fuel controlled fire — go to Step 2 (see H7). Any analysis should assume the worst case scenario. For special hazards such as stacked timber/pallets or tyre stockpiles out in the open, a fuel controlled fire calculation must be used.

H6 Step 1 – Calculate maximum ventilation-controlled fire size

H6. 1 Step 1.1 - Calculate ventilation openings for each large firecell

NOTE – For the purposes of this calculation, a ventilation opening includes non-fire-rated glazing and roof vents.

The maximum fire size from a ventilation controlled fire is given by equation H1.

Heat release rate:

$$Q_{\text{vent}} = 0.092\Delta H_{\text{c}} A_{\text{v}} \sqrt{H_{\text{v}}}$$
 (Eq. H1)

where

 Q_{vent} is the rate of heat release from ventilation controlled fire (MW)

 ΔH_{c} is the fuel calorific value (MJ/kg)

For this analysis assume:

 ΔH_c is 18 MJ/kg

 $A_{\rm v}$ is the area of vertical openings (m²)

 H_{v} is the height of vertical openings (m).

NOTE – This method is only valid where the Fire Service can apply water on the fire prior to the failure of the passive fire protection of the firecell.

The following method is used to calculate the ventilation factors for a firecell containing multiple openings. $A_{\rm v}$ is the sum of the total area of the openings and $H_{\rm v}$ is the weighted average height of all the windows and doors. This factor is calculated by summing the areas of an opening multiplied by their height and dividing the total by the total area of the openings. This can be achieved easily in tabular form as demonstrated in the example given in figure H2 and table H1.

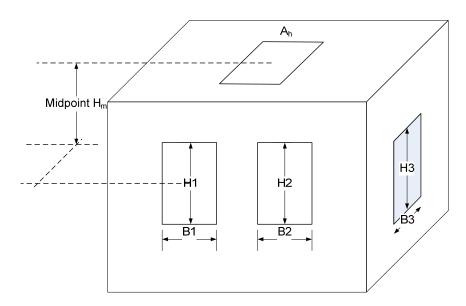


Figure H2 - Single firecell structure with 3 windows and 1 roof vent

Table H1 - Single firecell structure with 3 windows and 1 roof vent

i	Height of opening	Width of opening B _i	Area H _i B _i	Height x Area H _i A _i
1	H ₁	B ₁	H ₁ B ₁	$H_1^2B_1$
2	H ₂	B_2	H ₂ B ₂	H_2 2B_2
3	H_3	B_3	$H_3 B_3$	${\sf H_3}{}^2{\sf B_3}$
Σ =			$\sum A_i$	ΣH _i A _i

where

$$A_{v} = {}^{i=3}\sum_{i=1}A_{i} = H_{1}B_{1} + H_{2}B_{2} + H_{3}B_{3}$$

and

$$H_{v} = \frac{\sum H_{i}A_{i}}{\sum A_{i}}$$
(Eq. H2)

If the structure has both vertical and horizontal opening(s) use the calculation method below, as outlined in Buchanan, 2001, noting the limitations indicated. A simplified ventilation factor, $(A_{\rm v}\sqrt{H_{\rm v}})_{\rm (fict)}$ may be calculated:

$$(A_{\rm v}\sqrt{H_{\rm v}})_{\rm (fict)} = A_{\rm v}\sqrt{H_{\rm v}} + 2.33A_{\rm h}\sqrt{H_{\rm m}}$$
(Eq. H3)

where

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 A_v and H_v come from equation H2 above

 A_h is the area of horizontal opening (m²)

 $H_{\rm m}$ is the vertical height from the mid-height of the window opening to the mid-height of the horizontal opening (m)

This is only valid if

$$0.3 < \frac{A_h \sqrt{H_m}}{A_v \sqrt{H_v}} < 1.5$$
 (Eq. H4)

Check validity. If outside these limits assume fuel controlled fire and thus go to Step 3 (see H8).

H6. 2 Step 1.2 – Calculate maximum fire size by selecting largest ventilation factor

Select the firecell with largest ventilation factor, that is $(A_v \sqrt{H_v})_{(fict)}$.

The rate of heat release Q_{vent} from the ventilation controlled fire is calculated from equation H1 as:

$$Q_{\rm vent} = 0.12\Delta H_{\rm c} A_{\rm v} \sqrt{H_{\rm v}}$$
(From Eq. H1) (Answer H1)

H7 Step 2 – Calculate maximum fuel-controlled fire size

The heat release rate from the fuel-controlled fire depends on the area of fuel burning and the heat release rate per unit area.

$$Q_{\text{fuel}} = A_{\text{fuel}}.Q''_{\text{fuel}}$$
 (Eq. H5) (Answer H2)

where

 Q_{fuel} is the rate of heat release from the fuel controlled fire (MW)

 A_{fuel} is the surface area of fuel (m²)

 $Q_{\text{fuel}}^{"}$ is the rate of heat release per unit area of fuel burning

(MW/m²)

Assume a 1:1 ratio of fuel surface area to floor area except for rack storage. Rack storage will require calculation of fuel surface area.

Table H2 gives typical values for the heat release rate per unit area of fuel burning.

Table H2 – Typical heat release rates from fuel controlled fires for various structure types

Building Use	FHC ⁽¹⁾	Q"fuel (MW/m²)
Retail	2	0.35
	4	1.0 ⁽²⁾
Offices	1	0.25 ⁽²⁾
	2	0.35
Warehouse	2	0.35
	3	0.5 ⁽²⁾
	4	1.0 ⁽²⁾

NOTE -

- Based on the compliance documents for the New Zealand Building Code, C/AS1.
- (2) Figures derived from AS 1668.3.

H8 Step 3 – Select smaller value of the ventilation or fuel controlled fire size

For each firecell, the heat release rate of the fire Q_{fire} ... (Answer H3) is the smaller value of Q_{vent} (Answer H1) or Q_{fuel} (Answer H2).

H9 Step 4 – Select firecell with largest value

Repeat steps 1 to 4 for all firecells. Select cell with largest value of Q_{fire} . Use this figure in Step 5 (See H10).

H10 Step 5 – Modification of heat release rates

The heat release rate, $Q_{\rm fire}$ as determined from Step 3 (Answer H3) may be reduced by a number of factors. To account for these factors it is proposed to determine $Q_{\rm max}$ the heat release rate required to be used for firefighting water supply purposes as follows:

$$Q_{\text{max}} = K_1 . K_2 . Q_{\text{fire}}$$
 (Eq.H6) (Answer H4)

Proposed values for these coefficients are given in table H3 and table H4. In particular cases, it may be feasible to develop more appropriate figures.

H10. 1 *Step 5.1 − K*₁ *coefficient*

 K_1 coefficient to account for human intervention and first aid firefighting, see table H3.

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Table H3 − K₁ Human intervention

	No facilities or structure unoccupied	Structure occupied and hand operated firefighting equipment available	Structure occupant trained in firefighting and present 24 hours
K ₁ *	1	0.9	0.8

^{*} This value can be further reduced upon documented agreement with the NZFS that an industrial brigade is effectively resourced and available at all times to mitigate any fire to the satisfaction of the National Commander.

H10. 2 Step 5.2 – K2 coefficient

 K_2 coefficient to account for fire safety features, see table H4.

Table H4 - K2 Fire safety features

	No detection or suppression system	Smoke or heat detection system, installed to approved Standard without direct connection to NZFS alarm receiving equipment	Smoke or heat detection system, installed to approved Standard with a direct connection to NZFS alarm receiving equipment	A sprinkler system installed to an approved Standard with a direct connection to NZFS alarm receiving equipment
K ₂	1	1	0.8	0.1

The maximum heat release rate Q_{\max} for firefighting water supply purposes is then used to determine the required firefighting water flow rate in accordance with Appendix J.

APPENDIX J – WATER EXTINGUISHING CAPABILITY

J1 Introduction

This Appendix outlines the method of calculating the extinguishing capability of the available water and hence the required firefighting water supply. For information on capped fire size, see figure H1.

J2 Step 1 – Maximum fire heat release rate

Take value for Q_{max} derived from Appendix H.

J3 Step 2 – Calculate water flow required for firefighting

Calculate water flow required for firefighting

where

 Q_{max} is the maximum rate of heat release from fire (MW)... (Answer J4) M_{water} is the water flow rate required for firefighting (L/s)

J4 Step 3 – Calculate exposure protection

Additional water is required to protect other structures from a fire in the structure under consideration. This is called exposure protection. The calculation for the protection of exposures is necessary where any exposed surface on an adjacent structure can be affected by radiation.

An exposed surface is defined as any external cladding on an adjacent structure that is combustible or coated with a combustible coating. An exposed surface is affected by radiation where the surface is within the horizontal distance calculated in accordance with the Compliance Documents for the New Zealand Building Code, Part 7, C/AS1.

As these distances have been derived for timber cladding, where plastic claddings and substrates have been used, add another 10 m to the distances derived above.

$$M_{\rm exp} = A_{\rm exp} \cdot \phi \text{ (L/s)} \dots (Eq. J2)$$
 (Answer J2)

where

 $M_{\rm exp}$ is the required water flow rate to protect the exposure (L/s)

 A_{exp} is the surface area of adjacent firecell(s) and/or structure(s) exposed to a firecell involved in fire (m²)

 ϕ is known as the water wetting rate and = 0.1 (L/s/m²)

J5 Step 4 – Calculate total water flow required

The total water flow rate required M_{tot} is therefore:

$$M_{\text{tot}} = M_{\text{water}} + M_{\text{exp}} (\text{L/s})$$
(Eq. J3)

$$M_{\text{tot}} = \text{Answer J1} + \text{Answer J2}$$
(Answer J3)

J6 Step 5 – Assess the adequacy of the available firefighting water

 $M_{
m measured}$ is the measured flow rate recorded from flow tests conducted in accordance with Appendix G. The total firefighting water available $M_{
m available}$ may be sourced from reticulated and/or static supplies. To reflect the difference in accessibility and reliability of different sources of water supply, divide the measured flow rate from the source by the appropriate coefficents from table J1 and table J2 to obtain the available water flow, $M_{
m available}$.

$$M_{\text{available}} = M_{\text{measured}} / C_1.C_2 \dots (Eq. J4)$$
(Answer J4)

In the case of firefighting water supplies from several different sources, add the individual available supplies together to come up with a cumulative value for $M_{\text{available}}$.

Table J1 - Water accessibility coefficient C₁

	Reticulated fire hydrants marked	Static supply, flooded instantaneous coupling	Static supply, flooded suction	Static supply, no coupling suction	Tanker or relay (no supply within 270 m)
<i>C</i> ₁	1	1.15	1.25	1.5	2

Table J2 – Water reliability coefficient C,

	Networked gravity	Dual system static/pump	Pump with emergency backup	Pump with no emergency power backup
C_2	1	1.1	1.1	1.5

If
$$M_{\text{tot}} > M_{\text{available}} = \text{Failure}$$

then it is necessary to reassess the fire safety features of a structure or improve the water supply.

If
$$M_{\text{tot}} < M_{\text{available}} = \text{Pass}$$

then there is a sufficient firefighting water supply.

J7 Access to firefighting water

Where the required firefighting water supply is available from fire hydrants then these must be located as given in table J3. Where firefighting water supply is available from alternative firefighting water sources, then the Fire Service access to the alternative firefighting water source must comply with Appendix B.

J8 Duration of fire

The fire duration may be estimated conservatively from:

$$t_{\rm fire} = (\Delta H_{\rm c} . M_{\rm fuel}) / Q_{\rm max} \ \ (Eq. J5) \label{eq:tfire}$$
 (Answer J5)

where

 t_{fire} is the fire duration (s)

 M_{fuel} is the mass of fuel in the firecell (kg)

This time is used to estimate the firefighting water supply storage volumes.

Table J3 - Water flows from fire hydrants

Calculated firefighting water supply (Answer J3)	Water flow required in a distance of 135 m	Additional water flow required in a distance of 270 m	Maximum number of fire hydrants to provide flow	Water storage volume in reservoir and/or from alternative water source
L/min (L/s)	L/min (L/s)	L/min (L/s)		(L)
< 750 (12.5)	Calculated flow	Not applicable	1	
750 – 1500 (12.5 – 25)	750 (12.5)	Remainder of flow	2	
1560 – 3000 (26 – 50)	1500 (25)	Remainder of flow	2	Water flow (Answer J3 x fire
3060 – 6000 (51 – 100)	Half of calculated flow	Half of calculated flow	4	duration = Answer J5)
6060 – 12 000 (101 – 200)	Half of calculated flow	Half of calculated flow	8	
> 12 000 (200)	Half of calculated flow	Half of calculated flow	8	

APPENDIX K - WATER SUPPLY SYSTEM CLASSIFICATION

Tables 1 and 2 are well suited for determining firefighting water requirements for individual fire risks. However, the flow rates and storage volumes that reticulated water supply systems should be designed for should be assessed on the range of fire risks that can be present in any one reticulation zone. The purpose of this appendix is to give guidance to water supply system designers in determining the design firefighting flow rates and storage volumes for reticulated water supplies.

It is important to note that firefighting water requirements are IN ADDITION to the domestic/commercial/industrial water supply needs and fire sprinkler demand. When water for firefighting is provided from hydrants it must be at a pressure of not less than 100 kPa.

K1 Water supply classifications

K1.1 Background

Firefighting water supplies can be classified using the scale shown in table 2, taking into account factors such as the size (firecell area) of the average fire risk and the highest expected fire risks in the area, and anticipated future development. Provision is also made for FW7, for which flow rates and storage requirements can be determined on a case by case basis, using methods such as those outlined in Appendices H and J.

Table 1 shows the fire water supply classifications that are required to protect individual fire risks.

K1.2 General procedure for establishing classifications for water supply reticulations

The capacity of existing water supplies to store and deliver water for firefighting can be measured by undertaking comprehensive flow testing or estimated through computer modelling. Water supply authorities should undertake this work in partnership with the Fire Service. If necessary the WSA can establish water classification zones after consultation with the Fire Service, so that the minimum storage and flow requirements in the zones are clearly defined. Due to the capital intensive nature of water reticulations long lead times may be required to make improvements. Strategies should therefore be put in place in consultation with the Fire Service that clearly describe how any known deficiencies in the water supply are managed and how they will be remedied. Any consultations with the Fire Service should occur at the Fire Region Manager level or their delegated authority.

To determine the firefighting capacity for new water supplies in greenfield areas the WSA should make an assessment of the developments that are likely to occur in that area, and design the water supply system for the average fire risk using tables 1 and 2 taking account of other factors such as future growth after consultation

with the Fire Service. Any new developments should be assessed against the capacity of the water supply system, to ensure that developers design within the reticulated supply capacity, and in cases where the required fire water exceeds the reticulation capacity, remedy the effects by providing additional on site storage or increasing the reticulated capacity.

K2 Storage

The volume of storage that is reserved for firefighting purposes must not be used for normal operational requirements, see figure K1. Additional storage must be provided to balance diurnal peak demand, seasonal peak demand and normal system failures, for instance power outages. The intent is that there are always sufficient volumes of water available for firefighting, except during civil defence emergencies or by prior arrangement with the Fire Region Manager.

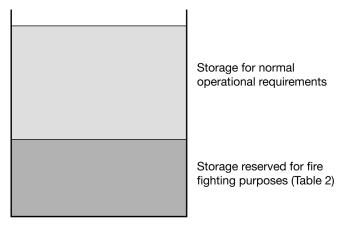


Figure K1 - Reservoir storage

K3 Flow

The flow rate that is available for firefighting from hydrants can be measured by undertaking comprehensive flow tests or be estimated through network modelling.

Comprehensive flow tests should be carried out at times of reasonably high consumer demand (domestic, industrial, and commercial water usage) so that the test results will reflect the effects of any reduced reticulation pressure at such times. The timing for such tests must be determined in consultation with the water supply authority to manage any discolouration and reduced pressures that may result.

When the available firefighting flow rates are estimated by running computer models, it is necessary to include background consumer demand concurrently with the fire water flows from hydrants. As a guide, two thirds of the annual peak consumer demand should be used consecutively with fire flows from hydrants, with resulting reticulation pressures not less than 100 kPa. The annual peak

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demand varies from zone to zone, but as a guide in residential areas, can be estimated as follows:

Zones less than 1000 dwellings: $Q_{peak} = 0.596D^{0.632}$ L/s

Zones larger than 1000 dwellings: $Q_{peak} = 0.0467D L/s$

where Q_{peak} = Peak annual demand (L/s)

D = Number of dwellings

Individual water suppliers may use different formulae particular to their suppliers, based on observed peak flow rates.

In most cases several modelling runs would be needed to assess the impact of different fire scenarios at different locations, but scenarios should allow for only one fire at a time.

Where structures are fitted with compliant fire sprinkler systems, the required water supply classification is no greater than FW2. NZS 4541 requires the fire sprinkler flows to be delivered concurrently with a flow of 1500 L/min (25 L/s) from the nearest fire hydrants at the pressure determined as part of the sprinkler system design and flow tests. By default a flow test should therefore be available that takes into account the effect of reduced pressure due to consumer demand.

Computer modelling can be used to verify that the level of consumer demand at the time the flow test was conducted was at least two thirds of peak annual demand. In cases where the modelled pressure is less than the observed pressure, further work should be carried out to determine the appropriate available reticulation pressure that the fire sprinkler system should be designed for.

K3. 1 Example

A water reticulation has to be designed for a proposed business park. Average lot size will be 2000 m². Working/business/storage activities with medium fire load such as manufacturing, processing, and bulk storage up to 3 metres will be permitted under the proposed district plan provisions.

Using tables 1 and 2, the water supply qualifications and firefighting water requirements in table K1 are possible.

Table K1 - Example of calculating flow

Options	Building sprinklered	Firecell size (m ²)	Fire water classification	Flow rate from hydrants L/min (L/s)	Storage in reservoir (m³)
1	Yes	UNLIMITED	FW2	1500 (25)	45
2	No	0 – 199	FW3	3000 (50)	180
3	No	200 – 399	FW4	6000 (100)	540
4	No	400 – 799	FW5	9000 (150)	1080
5	No	800 – 1199	FW6	12 000 (200)	2160
6	No	>1199	FW7	Specific design	·

NOTE – The 'storage in reservoir' column is to ensure that the specified firefighting water is a dedicated amount purposefully allowed for in a town water reticulation design IN ADDITION to the domestic, commercial, and/or industrial needs. It is obtained by multiplying the expected firefighting duration by the required fire flow rate from the hydrants.

After consultation with the Fire Service and through the Resource Management process it is agreed to provide reticulated firefighting capacity for sprinklered buildings and for non-sprinklered buildings up to FW3. All buildings with firecells not greater than 199 m^2 can therefore be protected using water from the reticulated supply, but any proposal to construct a firecell larger than 199 m^2 will require a sprinkler system to be installed or on-site storage to be provided to make up the shortfall.

An example of the application of this is as follows:

If a non-sprinkler protected building whose largest firecell is $600~\text{m}^2$ is to be built in this area it would have a FW classification of FW5. However the water reticulation network supplying this zone is only rated at FW3. Table K2 shows a comparison of the firefighting capacity of the water supply network with the firefighting water requirements for the fire risk.

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Table K2 – Comparison of firefighting capacity of the water supply network with the firefighting water requirements

	Flow rate L/min (L/sec)	Storage (m³)
Reticulation designed to meet FW3 requirements	3000 (50)	180
Fire risk FW5	9000 (150)	1080
Theoretical water supply system deficit	6000 (100)	900
Possible solutions to provide for flow and storage deficits	 (a) Provide additional flow from on-site storage source (b) Check whether actual water reticulation capacity is higher than 50 L/s (c) Increase water reticulation capacity (d) Combination of the above 	(a) Provide on-site storage (b) Check whether additional storage from the water supply reservoir can be dedicated for firefighting purposes (c) Increase water supply system storage volume (d) Combination of the above

APPENDIX L – SPECIFICATION, LOCATION, AND MARKING OF FIRE HYDRANTS

L1 Scope

The purpose of this Appendix is to provide a specification and a suitable system for marking the location of fire hydrants and water supplies so they can be readily identified by the Fire Service and, where necessary, by the general public. Fire hydrant installation is covered by NZS 4404.

L2 General requirements

Fire hydrants must comply with an approved Standard, see Appendix F.

Every fire hydrant must have its position identified by a combination of markings and indicators as set down in this code of practice. Fire hydrants should not be marked until the water main is commissioned, and markings must be removed if the water main is uncharged or abandoned.

NOTE – This clause does not apply if the water main is temporarily uncharged or decommissioned, in which case the Fire Service needs to be informed.

Road controlling authorities must approve any devices or markings installed in a road reserve. This includes any markings on the roadway and any markers or other devices installed beside the roadway.

L3 Forms of markings and indicators

L3.1 Required markings for underground fire hydrants located on or adjacent to sealed roads

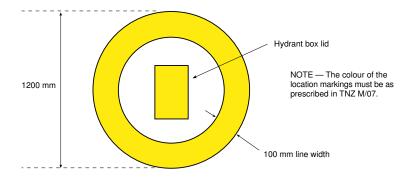
The position of the underground fire hydrant must be identified by:

- (a) The lid of the fire hydrant box painted with yellow paint; and
- (b) An isosceles triangle of solid colour with 600 mm sides and 450 mm base, painted yellow, on or near the centre of the carriageway, with the apex pointing towards the underground fire hydrant; and
- (c) In addition, a circle of 1.2 m outside diameter with a line width of 100 mm painted yellow as concentrically as possible around the underground fire hydrant, where, in the opinion of the person responsible to the WSA for the installation, maintenance, and marking of fire hydrants, access to the fire hydrant may be obstructed by parked vehicles.

See figure L1.

The paint used must comply with the requirements of TNZ M/07.

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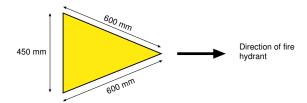


Figure L1 - Fire hydrant marking

L3.2 Required markings for underground fire hydrants located on or adjacent to unsealed roads

The position of the underground fire hydrant must be identified by:

- (a) The lid of the fire hydrant box painted with yellow paint;
- (b) An indicator plate or marker post in accordance with L3.4.
- **L3.3** Required markings for outlets other than fire hydrants
 Other pressurised water outlets used for firefighting water supplies
 must be marked to the satisfaction of the National Commander.
- **L3.4** Requirements for indicator plates or marker posts
 Where the fire hydrant location may be difficult to identify, or where it may be obscured by snow or vegetation, an indicator plate or marker post may be used.

If an indicator plate is used, it must comply with the requirements of BS 3251 except that the background colour (specified in 8.2 of BS 3251) must be yellow and comply with TNZ M/07.

The indicator plate must not be less than 600 mm and not more than 3 m above the road level and must be placed on or near a boundary line, wall or structure. Alternative siting may be used in exceptional circumstances subject to the approval of the Fire Region Manager.

If a marker post is used, it must comply with the dimensions specified for Type C edge marker posts in the Transit New Zealand *Manual of*

traffic signs and markings — Part II: Markings. The two yellow reflectors must be replaced with two blue reflectors and these must be repeated on the reverse side of the post so it will be visible from both directions. The post must be located in the same manner as the standard edge marker posts in relation to the trafficable portion of the carriageway and in line with the fire hydrant.

NOTE - Road controlling authorities must approve any installation of edge markers.

The road reserve between the carriageway and the indicator plate or marker post must be maintained so that the indicator plate or marker post is readily visible from the carriageway.

L3. 5 Additional markings

Any additional markings placed near an underground fire hydrant should not obliterate or confuse any of the markings set down in this code of practice, for example, markings to prohibit parking.

Where deemed necessary by the Fire Region Manager of the urban fire district or the WSA, the following additional markings may apply:

- (a) Standard yellow post with FH marking;
- (b) Kerb marking in yellow.

Additional marks may indicate:

- (a) Fire hydrants installed on water mains with running pressure in excess of 1200 kPa;
- (b) Fire hydrant that is the last one on a dead-end water main.

L3. 6 Blue raised reflective pavement markers (RRPM)

The use of RRPM on roads is controlled by road controlling authorities, therefore the use of these markers must be with their consent. The use of RRPM is recommended as additional means of identifying fire hydrant locations.

The Land Transport Safety Authority (LTSA) (now Land Transport New Zealand) has supported the use of blue RRPM through recent editions of the Road Code and has issued Traffic Note 25, that is sent to all local authorities and other organisations involved with roads. This notice allows for the use of RRPM for marking fire hydrant locations. Where they are used, they must be located close to, and on the fire hydrant side of, the centre of the roadway at or near the base of any yellow triangle marked on the surface. It is suggested in Traffic Note 25 that road controlling authorities prohibit the use of these blue RRPM for any purpose other than indicating fire hydrants.

NOTE – Traffic Note 25 allows the use of the blue RRPM, but does not make them compulsory.

L4 Location of fire hydrants

Where the required firefighting water supply has been calculated using Appendix J, the distance to fire hydrants is given in table J3, that is: 135 m for **required water** flow, with **additional water** within 270 m.

This maximum hydrant to structure distance is calculated as straight line segments along the road, main access path, or drive to the front door (main entrance). This is the 'as you would lay the hose' distance, which means that this path must be free from obstructions, smooth, and accessible at all times. See figure L2(a) and (b).

It is important to understand that firefighting water supply is most effective when targeted for a specific risk, so where a structure requires say 6000 L/min (100 L/s) of firefighting water, then (as each hydrant for design purposes cannot provide more than 2100 L/min (35 L/s)) these (minimum of three) hydrants should be grouped as close as reasonably possible to the 'hardstand' (for this structure). This hardstand is the pumping platform, from which firefighting operations will take place. If the structure is very large or the main entry point (front door) is located more than 18 m from the road's edge, a ring water main and/or grouped hydrants at the main entry points is the better solution. This will facilitate fastest Fire Service setup and thus likelihood of fire control. See figure L2(c).

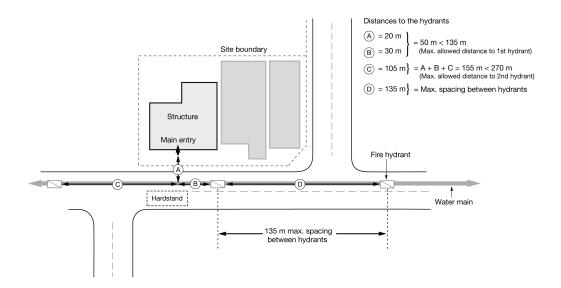
This code of practice focuses on how the most effective firefighting water supply can be provided for a structure. To be of practical use hydrants should be within 25 m (one hose length) of the hardstand and must be readily accessible for the fire appliance. However, in assessing where hydrants should be sited, each structure needs to be assessed based upon its location to the street frontage, which is most often where the NZFS hardstand for the structure will be. Thus the principal means of assessing this maximum distance of a fire hydrant (or fire hydrant group) from a structure (main entry point) is calculated by summing the straight line segments as the hose would be laid on an unobstructed surface, between them. See figure L2(c).

The recommended spacing between fire hydrants should not exceed 135 m. Where there are no premises to be protected, the spacing may be greater. To enable the required flow to be obtained from a water main, fire hydrants may be installed in groups in the same water main. The Fire Region Manager must approve the location and number of these grouped fire hydrants.

Fire hydrants must be readily accessible for fire appliances and should be ideally positioned near road or street intersections and not less than 6 m from any building structure to maintain a clear working space.

Existing fire hydrants may be found at the sides of buildings or structures, or within 6 m of them. These fire hydrants do not comply with this code of practice but may be included in the calculation of firefighting water supply at the discretion of the Fire Region Manager of the urban fire district.

NOTE – For determining whether a building is in the specified distance to a fire hydrant (or water source), the 'as you would lay the hose distance' as measured from the main entrance to the building to the water supply, should be used. If as in a greenfields subdivision no building platforms have been specified, the value to be used to obtain the distance to the main entrance of the building should be not less than half the longest lot dimension. For example, a lot measuring 40 m x 60 m would require not less than 30 m to be added to the 'as you would lay the hose' distance.



NOTE – Notwithstanding meeting the **required** and **additional** distances to a hydrant, hydrant-to-hydrant spacing should not exceed 135 m.

Figure L2(a) – Code requirements for the location and spacing of fire hydrants (Example 1)

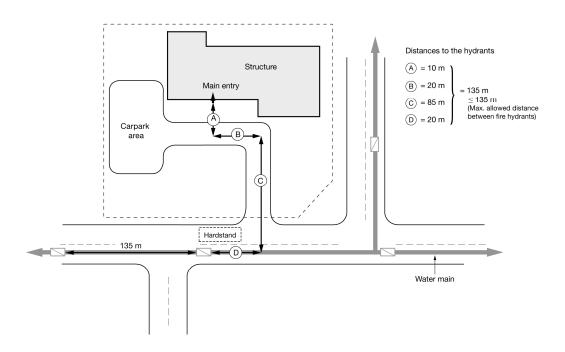


Figure L2(b) – Code requirements for the location and spacing of fire hydrants (Example 2)

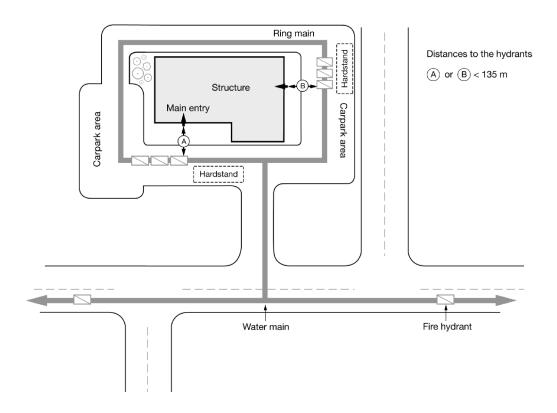


Figure L2(c) – Code requirements for the location and spacing of fire hydrants

Large structures more than 18 m from the road's edge with multiple entrances and large firefighting water supply requirements.

NOTES

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SNZ PAS 4509:2008

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REPORT

TO: Malvern Community Board Meeting

FOR: Malvern Community Board Meeting 27 January 2025

FROM: Steve Gibling, Executive Director People, Culture and Capability

DATE: 27 January 2025

SUBJECT: 24/25 REMUNERATION AUTHORITY

DETERMINATION ALLOWANCES FOR MEMBERS

RECOMMENDATION

'That the Malvern Community Board

1. 'Receives the report', and

2. 'Notes the allowances for ICT (see <u>Appendix at Clause 8</u> for example of ICT) and the processes around reimbursement and use of ICT equipment.

1. PURPOSE

To provide the Malvern Community Board with information around the allowances payable for ICT equipment under the Remuneration Authority Determination 24/25 (Determination 24/25) and instruction regarding the use of ICT equipment.

2. HISTORY/BACKGROUND

The Remuneration Authority sets the allowances payable for,

- Chairpersons and members of community boards:
- Chairpersons of committees of community boards:

Advice has been sought on what allowances are payable to community board members based on the 24/25 Determination covering the 24/25 period in response to requests to use personal devices.

That advice is reflected in the sections below.

3. ICT Equipment Allowances

The 24/25 Determination permits allowances for ICT equipment under Clause 13, in 2 situations

- 1) Where the local authority (SDC) provides equipment, and
- 2) Where the local authority (SDC) requests that a member uses their own equipment.

The options for payment based on the 2 scenarios above include the below:

- 1) Where ICT equipment is **provided by a local authority** and **allows for its personal use.** (Clause 13 (1))
- 2) If the local authority determines that a member requires particular equipment and requests that the member uses their own equipment for the purposes of the performing it local authority's functions. Clause 13(2))
- 3) If the **local authority requests** a member to use the member's **own internet** service for the purposes of the members work on local authority business (Clause 13 (3))
- 4) If a local authority requests a member to use the member's own mobile telephone service for the purpose of the member's work on local authority business (Clause 13.4)

The 24/25 Determination does not permit any allowance to be paid where a member elects to use their own personal equipment or services.

The allowances which may be paid are set out in the 24/25 Determination which is set out in the *Appendix*.

4. INSTRUCTIONS

Members need to decide on an option from the below:

Option 1: Use their own ICT in lieu of any SDC issued ICT.

or

Option 2: Use SDC issued ICT equipment.

Instructions for Option 1:

For those members who wish to use their own personal equipment (mobile, laptop, tablet) instead of any SDC issued equipment, members need to:

- a) Return SDC issued ICT equipment.
- b) Arrange for their personal ICT equipment to be fitted with appropriate apps by the Digital Team that will provide the appropriate security and access subject to the Local Government Official Information and Meetings Act 1987 (LGOIMA) and Privacy Act 2020.

Please note that as the member **is not** being asked to use their own ICT equipment or services by SDC, no allowances are payable.

Instructions for Option 2:

For those members who wish to use SDC issued ICT (mobile, laptop, tablet etc) instead of their own personal ICT, members need to:

- a) Contact the Digital Team Helpdesk where no ICT has been issued or needs to be reissued where personal ICT is currently being used.
- b) Ensure that all information relating to Council business stored on the personal device is either deleted or transferred onto the SDC issued device.
- c) Processing of reimbursement payments payable under Option 2 will usually occur in line with the board renumeration pay cycle. Note that reimbursement payments include those payments determined as payable to SDC by a member for any personal use of SDC equipment.

Endorsed For Agenda

Steve Gibling

EXECUTIVE DIRECTOR - PEOPLE, CULTURE AND CAPABILITY

Appendix: Renumeration Authority Determination 24/25

13 ICT allowances

Member uses local authority 's ICT

(1) If a local authority supplies ICT to a member for use on local authority business and allows for its personal use, the local authority may decide what portion, if any, of the local authority's costs reasonably attributable to such personal use must be paid by the member.

Member uses own equipment and consumables

- (2) If a local authority determines that a member requires particular ICT equipment to perform their functions and requests that the member use their own equipment for those purposes, the local authority may pay an allowance.
- (3) The matters for which the local authority may pay an allowance, and the amounts that the local authority may pay for the determination term, are as follows:
 - (a) for the use of a personal computer, tablet, or laptop, including any related docking station, \$400:
 - (b) for the use of a multi-functional or other printer, \$50:
 - (c) for the use of a mobile telephone, \$200:
 - (d) for the use of ICT consumables, up to \$200.

Member uses own services

- (4) If a local authority requests a member to use the member's own internet service for the purpose of the member's work on local authority business, the member is entitled to an allowance for that use of up to \$800 for the determination term.
- (5) If a local authority requests a member to use the member's own mobile telephone service for the purpose of the member's work on local authority business, the member is entitled, at the member's option, to—
 - (a) an allowance for that use of up to \$500 for the determination term; or
 - (b) reimbursement of actual costs of telephone calls made on local authority business on production of the relevant telephone records and receipts.

Pro-rating

(6) If the member is not a member for the whole of the determination term, subclauses (3) to (5) apply as if each reference to an amount were replaced by a reference to an amount calculated in accordance with the following formula:

(a divided by b) x c

where— a is the number of days that the member held office in the determination term b is the number of days in the determination term c is the relevant amount specified in subclauses (3) to (5).

- (7) The Remuneration Authority may approve rules proposed by a local authority to meet the costs of installing and running special ICT where, because of distance or restricted access, normal communications connections are not available.
- (8) In this clause, ICT means information or communication technology, including—
 - (a) ICT equipment (for example, a mobile telephone and a laptop computer); and

- (b) ICT services (for example, a mobile telephone service and an internet service); and
- (c) ICT consumables (for example, printer or photocopy paper and ink cartridges).