Roxanne Davies

From: Emma Peters <sweepconsultancy@gmail.com> on behalf of emma

< Emma@sweepconsultancy.co.nz>

Sent: Wednesday, 3 March 2021 11:48 p.m.

To: District Plan Submissions

Subject: Submission of Ron Balchin - 353 Main South Road, GF05 and NDMA Provisions

Attachments: Submission Form 5 - Ron Balchin - 353 Main South Road, GF05, NDMA Provisions.PDF; Variation

2 Submission Notes - Ron Balchin - 353 Main South Road & GF05.pdf; Variation 2 Submission

Notes - Ron Balchin - Table 1.pdf

Categories: Nat

Hi,

Please find attached the following documents forming the submission of Ron Balchin in relation to 353 Main South Road, GF05 and NDMA provisions:

- Completed Form 5;
- · Submission Notes; and
- Table 1.

Please confirm receipt of this email.

Cheers,

Emma Peters Consultant Sweep Consultancy Limited P.O. Box 5724 Dunedin 9054 Phone 0274822214 www.sweepconsultancy.co.nz

VARIATION 2 - ADDITIONAL HOUSING CAPACITY



SUBMISSION FORM 5

CLAUSE 6 OF FIRST SCHEDULE, RESOURCE MANAGEMENT ACT 1991

This is a submission on Variation 2 to the Second Generation Dunedin City District Plan (2GP). Your submission must be lodged with the Dunedin City Council by midnight on 4 March 2021. All parts of the form must be completed.

Privacy

Please note that submissions are public. Your name, organisation, contact details and submission will be included in papers that are available to the media and the public, including publication on the DCC website, and will be used for processes associated with Variation 2. This information may also be used for statistical and reporting purposes. If you would like a copy of the personal information we hold about you, or to have the information corrected, please contact us at dcc@dcc.govt.nz or 03 477 4000.

Make your submission

Online: www.dunedin.govt.nz/2GP-variation-2 | Email: districtplansubmissions@dcc.govt.nz

Post to: Submission on Variation 2, Dunedin City Council, PO Box 5045, Dunedin 9054

Deliver to: Customer Services Agency, Dunedin City Council, Ground Floor, 50 The Octagon, Dunedin

Submitter details (You must supply a postal and/or electronic address for service)

First name:	Ron				
Last name:	Balchin				
	(if applicable):				
Contact perso	on/agent (if different to submitter):	Emma Peters,	Consultant, Sweep	Consul	tancy Ltd
Postal address	2 L				0
Suburb:					
City/town:	Ounedin :			Postcode:	9054
Email address	emmac sweep a	onsultancy. co.	nz		

Trade competition

Please note: If you are a person who could gain an advantage in trade competition through your submission, your right to make a submission may be limited by clause 6(4), Schedule 1 of the Resource Management Act.

I could gain an advantage in trade competition through this submission:

If you answered yes, you could gain an advantage in trade competition through this submissio,n please select an answer:

Yes

My submission relates to an effect that I am directly affected by and that:

a. adversely affects the environment; and

b. does not relate to trade competition or the effects of trade competition.

Submission

Submissions on Variation 2 can only be made on the provisions or mapping, which are proposed to change or alternatives that are clearly within the scope of the 'purpose of the proposals', as stated in the Section 32 report. Submissions on other aspects of the 2GP are not allowed as part of this process.

You must indicate which parts of the variation your submission relates to. You can do this by either:

- · making a submission on the Variation Change ID (in which case we will treat your submission as applying to all changes related to that change topic or alternatives within the scope of the purpose of that proposal); or
- · on specific provisions that are being amended.



The specific aspects of Variation 2 that my submission relates to are:

Variation 2 change ID (please see accompanying Variation 2 - Summary of Changes document or find the list on www.dunedin.govt.nz/2GP-variation-2)

GFOS & 353 Main South Rd

For example: D2

Provision name and number, or address and map layer name (where submitting on a specific proposed amendment):

All provisions relating to New Development Mapped Avers. For example: Rule 15.5.2 Density or zoning of 123 street name.

My submission seeks the following decision from the Council: (Please give precise details, such as what you would like us to retain or remove, or suggest amended wording.)

VAccept the change GFOT, SMPA (IS. 8. Y)

Accept the change with amendments outlined below NDMA

Reject the change

If the change is not rejected, amend as outlined below.

see attached submission notes

Reasons for my views (you may attach supporting documents):

If you wish to make multiple submissions, you can use the submission table on page 3 or attach additional pages.

See attacked submission notes

Hearings

Do you wish to speak in support of your submission at a hearing:

If others make a similar submission, would you consider presenting a joint case at a hearing: Ves

Signature: Ett. Emma Peter, Consultant, Sweep Consultancy (td Date: 3/3/21

Variation 2 Submission Notes – Ron Balchin – 353 Main South Road, GF05, SPMA (15.8.Y) & NDMA

Figure 1: Location of 353 Main South Road



Figure 2: Extent of GFO5 – General Residential 1 Rezone:



Notes:

- GF05 does not cover the entirity of 353 Main South Road due to known geotechnical issues.
- The extent of the New Development Mapped Area in Relation to GFO5 is the same as the extent of GFO5 itself.

Figure 3: Structure Plan Mapped Area (15.8.Y):



DUNEDIN Planning Map (Appeals Version)

Figure 4: Area Submitter is Seeking Right to Establish Residential Activity

Notes:

- Grey Line = Likely Location of Main Access through Site from Main South Road to Severn Street.
- Lime Green = Area on which the submitter is seeking the right to establish residential activity (see submission point 3 below).

Submission:

1. Accept Change GF05 (Rezone from Rural Residential 2 to GR1) including 15.8.Y Structure Plan Mapped Area

Reasons:

- Experienced severe shortage of residential capacity in Dunedin, including in this locale, to satisfy short through to long term demand with sufficient capacity to meet Council's obligations pursuant to NPS-UD 2020. Therefore, rezoning land within GF05 from Rural Residential 2 to GR1 helps Council meet its obligations pursuant to NPS-UD 2020.
- Rezone meets rezoning criteria specified in 2GP (see 2.6.2.1) in particular, it provides a
 logical extension of residential zones over a limited area which is close to services and
 public amenities including public transport whilst managing geotechincal issues associated
 with the site.
- Provides for flexibility of development in this locale for which there is experienced high demand for more residential capacity.

2. Accept Change NDMA with Amendments to NDMA provisions as set out in Table 1

Reasons:

- The NDMA provisions as notified may act as an impediment to development. The submitter requests changes to the NDMA provisions as set out in Table 1 of these submission notes. Table 1 contains the NDMA related provisions, issues and potential solutions.
- On the submission form the submitter states that their submission relates to "All provisions relating to New Development Mapped Area". In the event that Table 1 is not a complete list of all such provisions, the submitter reserves the right to make comment in evidence on any other NDMA related provisions which are found to be missing from Table 1.

3. Provide for One Building Platform on Area shown in Figure 4 above Subject to Natural Hazard / Geotech Performance Standards.

Reasons:

- This area will be separated from the land which will remain with the existing dwelling by what will potentially become quite a busy road.
- The submitter and his wife have lived on the site for many decades and wish to build a new dwelling for their retirement on this part of the site. The submitter accepts that granting the right to establish residential activity on this area will be subject to or conditional upon locating a building platform which is geotechnically sound and that foundations may need to be engineered in order to obtain building consent.

Table 1: NDMA Issues and Potential Mechanisms For Solutions

Delete Polcy 2.6.1.6.b Objective 12.2.X Future residential growth areas are developed in a way that achieves the Plan's strategic directions for. (Change D1) a. facilities and spaces that support social and cultural well-being (Objective 2.3.3); (Change D4) Policy 12.2.X.1	NDMA where land is in multiple ownership and development is likely to occur over time and potentially without cooperation between landowners? S32 report talks about	and/or informal space for recreation, sporting, social and cultural activities, and community facilities. That is, over so many lots / developed area a greenspace is required.
a facilities and spaces that support social and cultural well-being (Objective 2.3.3); (Change D4) Policy 12.2.X.1	'large greenfield areas' [see para 296], however,	AND / OR Specify what greenspace etc
Policy 12.2.X.1 Only allow subdivision in a new development mapped area where it will provide or otherwise ensure good	many of the 'large	is required as a minimum for which NDMAs.
access to outdoor recreation opportunities (including playgrounds) and, where possible, opportunities for off-road cycling and walking tracks within and between different residential developments and connecting to community facilities and services. {Change D4}	ownership.	
Rule 12.X.2.5.c		
12.X.2 Assessment of restricted discretionary activities in a Transition Overlay Zone or mapped area		
Activity Matters of discretion Guidance on the assessment of resource consents		

5. In a new c. Provision of recreation Relevant objectives and policies: development spaces (Change D4) i. Objective 12.2.X mapped area: ii. The subdivision provides or otherwise ensures good access to All subdivision outdoor recreation opportunities (including playgrounds) and, where activities possible, opportunities for offroad cycling and walking tracks within (Change D1) and between different residential developments and connecting to community facilities and services (Policy 12.2.X.1). (Change D4) Conditions that may be imposed include: iii. Location, size and shape of recreation reserves, including a minimum length of road frontage. iv. A requirement to vest recreation spaces in DCC as DCC reserve. v. Public amenities to be included in a recreation reserve. vi. A requirement for the recreation space to be developed prior to

Rule 15.11.5.Y

15.11.5 Assessment of restricted discretionary activities in an overlay zone, mapped area, heritage precinct or affecting a scheduled heritage item

Activity Matters of discretion Guidance on the assessment of resource consents

...

Y In a new development mapped area.

• All subdivision activities (Change D1 & Change F2-2)

c. Provision of recreation spaces (Change D4)

vesting in DCC (Change D4)

See Rule 12.X (Change D4)

Notified Policy / Rule			Potential Solutions
	2.2.5.b and 2.2.5.3.a and replace with new clause in Policy 2.2.2.X.a to be added {Change D5 & Change E4}	No issues.	N/A
Encourage improve a. use of policie subdivisions b. encouraging values; c. rules that reg the outdoor li d. rules that res Objective 12.2.X Objective 12.2.X Future residential g	nents to the environmental performance of new housing by, (Change E4) s and assessment rules for subdivision, including in new development mapped areas, that encourage to be designed to maximise the potential for passive solar design in housing; (Change D5) new medium density housing in parts of the city that have old housing stock that is not protected for its heritage uire outdoor living space to be on the sunny side of buildings, and requiring principal living areas to connect to ving space, and trict height in relation to boundary to facilitate access to sunlight in outdoor areas (Change E4) & Policy 12.2.X.3		
c. environmen	tal performance and energy resilience (Objective 2.2.2); {Change D5}	I	
Policy 12:2X3	Only allow subdivision in a new development mapped area where the subdivision layout and orientation provides for houses to be designed with good solar access to living areas and outdoor living spaces. (Change D5)		
Rule 12.X.2.5.a			
12.X.2 Assessm	ent of restricted discretionary activities in a Transition Overlay Zone or mapped area		
3			

development mapped area:	a. Whether subdivision design supports energyefficient housing (Change D5)		prientation provides for houses to be common living areas and outdoor living
Rule 15.11.5.Y 15.11.5 Assessment of res	stricted discretionary ac	tivities in an overlay zone, mapped a	area, heritage precinct or affecting a
Activity		Matters of discretion	Guidance on the assessment of resource consents
Y In a new development • All subdivision active Change F2-2)		a. Whether subdivision design supports energy-efficient housing {Change D5}	See Rule 12.X (Change D5)

Notified Poli	icy / Rule		Issue	Potential Solutions
CHANGE D6 Objective 12.2.X a	and Policy 12.2.X.2		for 'significant natural	Provide a definition for this term.
Objective 12.2.X	(Change D1)		environment values'?	
	growth areas are developed in a way the	at achieves the Plan's strategic directions for: {Change D1}		
b. <u>indigenous t</u>	biodiversity (Objective 2.2.3); (Chang	re D6)		
••				
Policy 12.2.X.2	any future land use and develope	evelopment mapped area where the subdivision is designed to ensure nent will protect, and where necessary restore, any waterways, areas of and habitats of indigenous fauna, or other areas with significant natural		
12.X.2 Assessme		ies in a Transition Overlay Zone or mapped area		
12.X.2 Assessme	ent of restricted discretionary activit	ies in a Transition Overlay Zone or mapped area Guidance on the assessment of resource consents		

Rule 15.11.5.Y		
15.11.5 Assessment of restricted discretionary scheduled heritage item	y activities in an overlay zone, mapped ar	ea, heritage precinct or affecting a
Activity	Matters of discretion	Guidance on the assessment of resource consents
Y In a new development mapped area: • All subdivision activities (Change D1 & Change F2-2)	d. Whether subdivision design maintains or enhances areas with significant natural environment values (Change D6)	See Rule 12.X (Change D6)

Notified Policy	/ Rule			Issue	Potential Solutions
CHANGE D7 Objective 12.2.X {Cha		W 100 100 W 200		What is the threshold for the requirement?	Include a trigger (i.e number of lots / size o development area).
(2) (2)	th areas are developed in a v	vay that achieves the Plan	s strategic directions for: {Change D1}		AND / OR
				What constitutes an	Provide guidance on wha constitutes 'adequate' area
Policy 12.2.X.4	ture of the environment (Obje	ctive 2.4.1); {Change D/}		'adequate' area?	of amenity planting and public amenities.
<u>a</u>		luding but not limited to st	area where the subdivision will provide adequate reet trees) and public amenities to ensure an		
					1
12.X.2 Assessment of Activity	f restricted discretionary ac		rlay Zone or mapped area		
Activity	THE STATE SOURCE	Guidance on the assess Relevant objectives and i. Objective 12.2.X ii. The subdivision pro (including but not lii ensure an attractive	policies: vides adequate areas of amenity planting mited to street trees) and public amenities to residential environment (Policy 12.2.X.4).		
Activity 5. In a new development mapped area. • All subdivision activities (Change D1). Rule 15.11.5.Y	b. Provision for amenity planting and public amenities (Change D7)	Guidance on the assess Relevant objectives and i. Objective 12.2 X ii. The subdivision pro (including but not lii) ensure an attractive Conditions that may be iii. Requirements for s (Change D7)	policies wides adequate areas of amenity planting mited to street trees) and public amenities to residential environment (Policy 12.2.X.4).		
Activity 5. In a new development mapped area. • All subdivision activities (Change D1). Rule 15.11.5.Y	b. Provision for amenity planting and public amenities (Change D7)	Guidance on the assess Relevant objectives and i. Objective 12.2 X ii. The subdivision pro (including but not lii) ensure an attractive Conditions that may be iii. Requirements for s (Change D7)	policies: evides adequate areas of amenity planting mited to street trees) and public amenities to residential environment (Policy 12.2.X.4). Imposed include treet tree and other subdivision amenity planting.		

<u>Y</u>	In a new development mapped area: • All subdivision activities {Change D1 & Change F2-2}	b. Provision for amenity planting and public amenities (Change D7)	See Rule 12 X (Change D7)

Notified Policy / Rule	Issue	Potential Solutions
CHANGE D8 Policy 2.7.1.2	Rule 12.X.2 – general assessment guidance iv.3	Delete.
Ensure areas of new urban development provide for public infrastructure networks that represent the least possible long term cost to the public through:	This assessment has already been undertaken in rezoning	
Zpolicies and assessment rules for new development mapped areas that encourage efficient use of land as a way to maximise the cost effectiveness of public infrastructure delivery. (Change D8)	of the land (including placement of Transition overlay zone or mapped	
Objective 12.2.X {Change D1} Future residential growth areas are developed in a way that achieves the Plan's strategic directions for: {Change D1}	area).	
e. a compact and accessible city (Objective 2.2.4); and (Change D8) f. efficient public infrastructure (Objective 2.7.1). (Change D8)		
Policy 12.2.X.5		
Policy 12.2.X.5 Only allow subdivision in a new development mapped area where the subdivision design ensures the efficient use of land, while also achieving the other elements of Objective 12.2.X. (Change D8)		
Rule 12.X.2.5.e		
12.X.2 Assessment of restricted discretionary activities in a Transition Overlay Zone or mapped area		

5. In a new development mapped area.

• All subdivision

activities (Change D1) e. Whether subdivision design supports efficient use of land (Change D8).

Relevant objectives and policies:

- i. Objective 12.2.X
- The subdivision design ensures the efficient use of land, while also achieving the other elements of Objective 12.2.X (Policy 12.2.X.5). (Change D8).

General assessment guidance:

- iii. Council will generally require subdivision in a NDMA to enable the maximum development capacity allowed under the rules and as can be achieved while still achieving the other objectives and policies of the Plan (e.g. as many sites suitable for residential development as practicable or through other means of maximising development capacity), (Change D8)
- iv. Where a <u>subdivision</u> proposes a residential yield less than what is allowed by the zoning and where this is not required to achieve other plan objectives or policies. Council will consider.
 - how this might affect the affordability and efficient delivery of public infrastructure.
 - how this might affect the ability to provide a reasonable amount of affordable housing in the development; and
 - 3. the potential cumulative effects of inefficient development on loss of rural land. (Change D8)

Rule 15.11.5.Y

15.11.5 Assessment of restricted discretionary activities in an overlay zone, mapped area, heritage precinct or affecting a scheduled heritage item

Activity Matters of discretion Guidance on the assessment of resource consents

•••

In a new development mapped area.

All subdivision activities {Change D1 & supports
 Change F2-2}

 Change D1 & supports

e. Whether subdivision design supports efficient use of land (Change D8) See Rule 12.X (Change D8)

Notified Po	licy / Rule	Issue	Potential Solutions
Enable and encou	Y - to be added {Change F2-2} rage on site low impact design stormwater management through policies and assessment rules that require stormwater management ment mapped areas. {Change F2-2}	2. Requirement to install infrastructure prior to obtaining subdivision consent (see Policy 9.2.1.Y and Note 9.3.7.AAA.a). The proper development process is for resource consent to be obtained prior to	mechanism whereby wher the developer of
Delete Policy 2. Policy 2.7.1.2.X Ensure areas of the public through	new urban development provide for public infrastructure networks that represent the least possible long term cost to		
X policies and F2-2)	assessment rules that require on-site stormwater management in the new development mapped area; {Change		as the other land within tha NDMA comes online. AND Provide a mechanisn
Policy 9.2.1.Y		that all matters can be assessed together. Focus	
Objective 9.2.1 Land use, development and subdivision activities maintain or enhance the efficiency and affordability of public water supply, wastewater and stormwater infrastructure.		should be on the design of infrastructre at this stage of the consent /	easements in NDMA fo
		development process.	Delete from Rule 9.9.X.3.0
Policy 9.2.1.Y	Only allow subdivision activities in a new development mapped area where: a an on-site stormwater management system that is designed for the whole NDMA and is installed in full or in planned stages prior to development will ensure there is no increase in the pre-development peak stormwater discharge rate from the site into the stormwater public infrastructure (at any point), or b where this is not practicable, any adverse effects from an increase in discharge on the stormwater public infrastructure are no more than minor. (Change F2-2)	the following: ', submitted along w written approval owners of land winew development area unless they	submitted along with the written approval of all owners of land within the new development mapped area unless they are the applicant/s'.
Policy 9.2.1.X			2. Delete requirement fo
Policy 9.2.1.X	Require development in a new development mapped area that creates impermeable surfaces to be connected to the integrated communal on-site stormwater management system that meets Policy 9.2.1.Y. (Change F2-2)		infrastructure to be installed prior to subdivision consent
			3. Add the words 'within the subject new developmen

Rule 9.3.7.AA

9.3.7.AA Stormwater (Change F2-2)

- a. In a new development mapped area, all development that creates an impermeable surface must
 - I. connect to a communal stormwater management system that services the new development mapped area. except
 - prior to the communal stormwater management system being installed, any development that creates less than 60m² of impermeable surface is exempt from this standard.
- b. Activities that contravene this performance standard are restricted discretionary activities. (Change F2-2)

Note 9.3.7.AAA

Note 9.3.7.AAA - General advice and other requirements outside of the District Plan (Change F2-2)

- a. In a new development mapped area, Policy 9.2.1.Y requires installation of a communal stormwater management system prior to development as part of the assessment of a <u>subdivision</u> consent. The requirements for <u>stormwater management</u> are set out in the Special Information Requirements Rule 9.9.X, (Change F2-2)
- Clause E1 Surface Water of the New Zealand Building Code (Building Regulations 1992, Schedule 1) contains
 requirements regarding buildings and sitework in relation to managing surface water and effects on other property.
- c. Development that will divert surface water may require resource consent under the Otago Regional Plan: Water
- d. Discharge of stormwater to any Otago Regional Council scheduled drain or overland flow path is managed by the Otago Regional Council Flood Protection Management Bylaw 2012.
- e. If development affects the flow of surface water, this effect is also subject to the common law principle of natural servitude.
- f. Part 4 of the Dunedin Code of Subdivision and Development 2010 ("Code of Subdivision") requires that design and construction of stormwater systems be undertaken in accordance with NZS 4404:2004 (now replaced by NZS 4404:2010), except as amended by the Code of Subdivision. This includes a requirement that stormwater systems be provided so that any new development results in an insignificant increase of runoff wherever possible (Clause 4.2.8).
- g. For further information on connections to the public stormwater network and for assistance with design requirements for stormwater management systems, please contact DCC 3 Waters on 03 477 4000 at the earliest opportunity, (Change F2-4)

mapped area' to the end of the sentence at Rule 9.5.3.Z.a.

Performance standard Matters of discretion Guidance on the assessment of resource consents In a new development efficiency of stormwater management and effects Relevant objectives and policies: i. Objective 9.2.1 ii. Require development in a new development mapped area that

of stormwater from future

development

General assessment guidance

 Council will consider how stormwater will be managed and may require a stormwater management plan to be submitted with the application (see Special Information Requirement - Rule 9.9.X).
 (Change F2-2)

creates impermeable surfaces to be connected to the integrated

communal on-site stormwater management system that

meets Policy 9.2.1.Y (Policy 9.2.1.X), (Change F2-2)

Conditions that may be imposed include:

- A requirement for easements, covenants, consent notices, or bonds to ensure future development will be in accordance with a stormwater management plan.
- vi. A requirement for on-site stormwater management, such as the installation of detention devices, in accordance with the approved stormwater management plan. (Change F2-2)

Rule 9.6.2.X

· Service

connections -

(Change F2-2)

(Rule 9.3.7 AA)

4.4.		T 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Activity	Matters of discretion	Guidance for the assessment of resource consents

<u>X</u> .	In a new
	development
	mapped area:
	All subdivision
	activities
	(Change F2-2)

a. Effectiveness and efficiency of stormwater management and effects of stormwater from future development Relevant objectives and policies (in addition to those outlined in 9.6.2.2 above):

- i. Objective 9.2.1.
- ii. Only allow subdivision activities in a new development mapped area where:
 - an on-site stormwater management system that is designed for the whole NDMA and is installed in full or in planned stages prior to development will ensure there is no increase in the predevelopment peak stormwater discharge rate from the site into the stormwater public infrastructure (at any point); or
 - where this is not practicable, any adverse effects from an increase in discharge on the stormwater public infrastructure are no more than minor (Policy 9.2.1.Y), (Change F2-2)

Special Information Requirement Rule 9.9.X

9.9.X Stormwater management plans

 Application for <u>subdivision</u> in a <u>new development mapped area</u> must include a <u>proposed stormwater management plan that</u> demonstrates how Policy 9.2.1.Y will be achieved, unless such a <u>plan has already been approved as part of an earlier</u> <u>subdivision</u>. (Change F2-2)

•••

- 3. Stormwater management plans must:
 - a. be prepared by a chartered engineer or other suitably qualified person;
 - be of a level of detail commensurate with the scale of the activity, complexity of stormwater management issues, and
 potential for adverse effects from stormwater, (Change F2-2 & Change F2-3)
 - c. for a new development mapped area (NDMA), address the whole NDMA area, and be submitted along with the written approval of all owners of land within the new development mapped area unless they are the applicant/s. (Change F2-2)
 - d. assess pre-development flows and post-development flows, generally based on the following rainfall events;
 - i. for primary infrastructure, a 10% annual exceedance probability (AEP) for the critical storm duration for the NDMA and the critical storm duration and the catchment upstream of the point of discharge, and
 - for secondary flow paths, a 1% AEP for the critical storm duration for the NDMA and the critical storm duration for the
 catchment upstream of the point of discharge;
 - iii. for the purposes of this requirement, 'critical storm duration' means the duration of rainfall event likely to cause the highest peak flows or water levels;

- lv. for the purposes of this requirement, 'primary infrastructure' includes both open and closed conduits designed to contain the flows generated by the 10% AEP rainfall event;
- v for the purposes of this requirement, 'secondary flow paths' means the flow path over which surface water will flow if the primary flow path becomes overloaded or inoperative and consists of overland flow paths with sufficient capacity to transfer the flows generated by rainfall events up to 1% AEP, Secondary flow paths should be aligned with natural flow paths and located on public land where possible. If located in private property, 1% AEP secondary flows should be through primary infrastructure unless protected by an easement;
- assess the difference between pre-development flows and post-development flows, taking into account the maximum
 impermeable surfaces permitted in the underlying zone and any proposed roading or accessways for the subdivision area
 (or in a new development mapped area, for the entire NDMA);
- specify the design and location of any on-site stormwater management systems to accommodate the calculated difference in flows;
- g, where relevant, specify the design and location of secondary flow paths;
- h. specify any upgrades to stormwater public infrastructure, or other infrastructure, that will be used to add capacity where it is required;
- the stormwater management system design should allow for stormwater quality treatment to reduce potential contaminants that the site and development may generate.
- j areas requiring stormwater quality treatment include trafficked areas such as roads, driveways and carparks. Roof and building areas should not require stormwater quality treatment providing they are constructed with inert building products which avoid exposed metal surfaces.
- k. stormwater quality treatment devices shall target the removal of 75% total suspended solids (TSS) on a long-term average basis and consider the avoidance or minimisation of thermal loading effects;
- I, the stormwater management design should consider the use of low impact design features, for example,
 - i. grassed/landscaped swales and other vegetation areas;
 - ii. infiltration trenches/bioretention systems;
 - iii. storage ponds/wetlands/sediment ponds;
 - iv. rainwater tanks harvesting and reuse;
 - v. rain gardens, green roofs; or
 - vi. porous surface treatments;

- m. where low impact design features are inadequate to address stormwater discharge in a way that meets Policy 9.2.1.Y. consider the use of detention tanks;
- n. for larger subdivisions, the design should incorporate consideration of how stormwater management areas can be integrated into reserves and recreation spaces;
- o for larger subdivisions, the design proposal should demonstrate how the integrity of the stormwater mitigation and management measures will not be compromised during and after subdivision (for example, avoiding premature contamination of devices during the construction of houses and ensuring that open drains that form part of the system will not be blocked or aftered). (Change F2-2 & Change F2-3)

Rule 15.3.4.1 Development Activity Status Table

1. Performance standards that apply to all development activities

- Natural Hazards Performance
 Standards
- b. Maximum building site coverage and impermeable surfaces
- c. Setback from scheduled tree
- d. Structure plan mapped area performance standards (where relevant)

Y Service connections - stormwater (in a new development mapped area) (Change F2-2)

Rule 15.6.X

15.6.X Service Connections - Stormwater - to be added {Change F2-2}

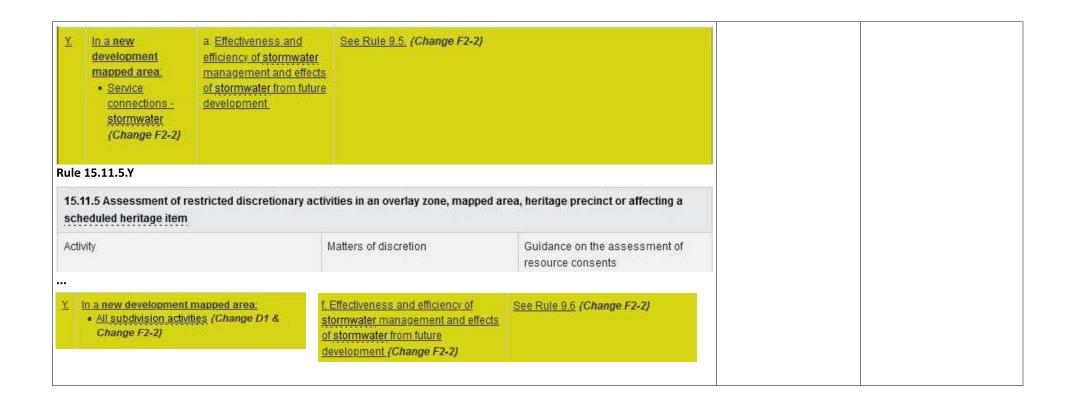
In a new development mapped area, all development that creates an impermeable surface must comply with Rule 9.3.7 AA. (Change F2-2)

Rule 15.10.4.Y

15.10.4 Assessment of development performance standard contraventions

Performance standard Matters of discretion Guidance on the assessment of resource consents

•••



Notified Policy / Rule Potential Solutions Issue 1. Potential difficulties 1. Provide a claw-back **CHANGE F3-2** with NDMA being in mechanism whereby when Policy 2.7.1.2.Y multiple ownership – for the developer of Ensure areas of new urban development provide for public infrastructure networks that represent the least possible long term cost to example, if there is / are infrastructure in a NDMA reluctant or recalcitrant with multiple owners vests the public through: owner(s) within the that infrastructure in DCC, NDMA. DCC pays that developer for policies and assessment rules that require wastewater detention for specified sites in the new development mapped area to the infrastructure (less the allow urban expansion while ensuring any impacts on the wastewater public infrastructure network are no more than minor. developer's pro rata share) (Change F3-2) and DCC claws-back the cost of that infrastructure vis development contributions Policy 9.2.1.BB as the other land within that NDMA comes online. Policy 9.2.1.BB Require subdivision, multi-unit development or supported living facilities in specified new development mapped areas to provide or connect to a communal wastewater detention system that ensures that all AND wastewater from the future development of the entire new development mapped area does not exceed the Provide mechanism capacity of the wastewater public infrastructure network. (Change F3-2) whereby the DCC can compulsorily acquire easements in NDMA for new Note 9.3.7.ZA General Advice infrastructure. b. In new development mapped areas specified in Rule 9.6.2.Y, immediate connections to the wastewater public infrastructure network will not be available due to network capacity constraints. In these cases, subdivision consent may be refused even if this standard is met where an on-site communal wastewater detention system that serves 50 or more residential units is yet to be approved as a solution to capacity constraints. (Change F3-2) Rule 9.6.2.Y 9.6.2 Assessment of restricted discretionary activities Activity Matters of discretion Guidance for the assessment of resource consents

- In the following new development mapped areas, all subdivision activities multi-unit development development and supported living facilities: (Change F3-2]
 - a. Effectiveness and efficiency of wastewater management and effects of wastewater from future
 - Kaikorai Valley Road (Change IN07)
 - · Selwyn Street (Change RTZ2)
 - Wattie Fox Lane (Change RTZ1)

Relevant objectives and policies (in addition to those outlined in 9.6.2.2 and 9.6.2.X above):

- i. Objective 9.2.1.
- ii. Require subdivision, multi-unit development or supported living facilities in specified new development mapped areas to provide or connect to a communal wastewater detention system that ensures that all wastewater from the future development of the entire new development mapped area does not exceed the capacity of the wastewater public infrastructure network (Policy 9.2.1.BB). (Change F3-21

General assessment guidance:

- iii. The identified new development mapped areas are serviced for wastewater but new connections to the network will not be allowed (and consequentially any multi-unit development, supported living facility or subdivision that will lead to development that will require a connection will likely be declined) until capacity constraints are resolved or a communal on-site wastewater detention system that is designed for and associated with subdivision and/or development of 50 or more residential units is integrated into the public network and vested in the DCC. After installation of the system, all activities that create wastewater will be required to connect to the system until it is no longer required.
- iv. In assessing the appropriateness of a proposed communal on-site wastewater detention system. Council will consider the proposed wastewater management plan submitted with the application (see Special Information Requirement - Rule 9.9.Y). (Change F3-2)

Conditions that may be imposed:

- v. A requirement for the communal on-site wastewater detention system to be installed prior to certification of the survey plan pursuant to section 223 of the RMA.
- vi. A requirement for the communal on-site wastewater detention system to be vested in the DCC, along with a site containing it which is of a minimum 500m2 in area and suitable for residential development.
- vii. A requirement for necessary easements and a fixed maintenance or defect period agreement to be in place prior to vesting the communal on-site wastewater detention system and associated land. (Change F3-21

Rule 9.9.Y

9.9 Y Wastewater management plans

- 1. Any application for subdivision, multi-unit development or supported living facilities in a new development mapped area specified in Rule 9.6.2.Y must include a proposed wastewater management plan that ensures that all wastewater from the future development of the entire new development mapped area does not exceed the capacity of the wastewater public infrastructure network via the use of a communal wastewater detention system, unless such a system has already been approved for the site and will be connected to.
- 2. The wastewater management plan must be prepared by a chartered engineer and meet the following requirements:
 - a. Specify the design and location of one or more communal wastewater detention systems to detain wastewater from the entire new development mapped area.
 - b. The communal wastewater detention systems must;
 - have the capacity to detain wastewater for a 24-hour period, prior to releasing to the wastewater via a connection to the
 wastewater public infrastructure network. The volume of wastewater to be detained will be calculated with reference to
 Part 5 of the Dunedin Code of Subdivision and Development 2010 ("Code of Subdivision");
 - ii. be compatible with DCC's Supervisory Control and Data Acquisition (SCADA) system;
 - iii. have a minimum 20 year expected life for all electrical / mechanical components and a minimum 50 year expected life for all civil components;
 - iv where practicable, be located such that all flow goes to one communal wastewater detention system with no pumping.
 - v. have components and materials that comply with the DCC's 3-Waters Approved Product and Manufacturers List and Part 5 of the Dunedin Code of Subdivision and Development 2010 ("Code of Subdivision").
- The wastewater management plan must be submitted along with the written approval of all landowners within the new development mapped area unless they are the applicant/s. (Change F3-2)

Notified Policy / Rule Potential Solutions Issue Limit the extent of Policy Delete the words 'on **CHANGE F2-6** 9.2.1.AA and related adjoining or nearby sites Policy 9.2.1.AA lower order provisions that are zoned for urban Policy 9.2.1.AA Only allow subdivision in a new development mapped area where any new public or private 3-waters to provision of capacity development and insert the infrastructure is designed to connect to, and provide capacity for, future urban development on adjoining or of infrastructure within words 'within the subject nearby sites that are zoned for urban development, where necessary, (Change F2-6) specific new new development mapped the development mapped area' before 'where necessary'. area. Rule 9.5.3.Z AND Similarly in Rule 9.5.3.Z.a.iii 9.5.3 Assessment of performance standard contraventions delete the words 'on Performance standard Matters of discretion Guidance on the assessment of resource consents adjoining or nearby sites that are zoned for urban In a new a. Effectiveness and iii. Only allow subdivision in a new development mapped area where development' and insert the development efficiency of stormwater words 'within the subject any new public or private 3-waters infrastructure is designed to management and effects mapped area: new development mapped connect to, and provide capacity for, future urban development on of stormwater from future Service area' before 'where development adjoining or nearby sites that are zoned for urban development. connections necessary'. stormwater where necessary (Policy 9.2.1 AA). (Change F2-6) (Rule 9.3.7.AA) AND (Change F2-2) Similarly in Rule 9.6.2.X.a.iii delete the words 'on Rule 9.6.2.X adjoining or nearby sites that are zoned for urban 9.6.2 Assessment of restricted discretionary activities development' and insert the words 'within the subject Matters of discretion Guidance for the assessment of resource consents Activity new development mapped area' before 'where necessary'. iii. Only allow subdivision in a new development mapped area where any In a new a. Effectiveness and new public or private 3-waters infrastructure is designed to connect to, efficiency of stormwater development and provide capacity for, future urban development on adjoining or management and effects mapped area: nearby sites that are zoned for urban development, where necessary of stormwater from future All subdivision (Policy 9.2.1.AA). (Change F2-6) development

activities

(Change F2-2)