Stormwater Discharge

Information Guide

Version: 3
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TIMARU DISTRICT COUNCIL
Te Kaunihera ā-Rohe o Te Tihi o Maru

Water Services
Safe and Reliable
For Our Community

Definitions

Stormwater is run-off from the surface of any structure as a result of precipitation and includes any contaminants contained within. The discharge of stormwater to the Public Stormwater Network is conditional on having a Stormwater Discharge Certificate.

Precipitation is rain, snow, sleet, or hail that falls to or condenses on the ground.

Attenuate is to temporarily store stormwater for a period of time, then release it slowly.

Impervious is a surface that allows little or no stormwater infiltration into the ground.

Introduction

All stormwater discharge to the Timaru District Council's stormwater network must comply with Chapter 15, Part 4 (Water Services, Stormwater) of the Timaru District Consolidated Council Bylaw 2018. A copy of this bylaw can be found on Council's website: ***www.timaru.govt.nz/bylaw/chapter-15***.

Timaru District Council requires that post-development stormwater runoff does not exceed the pre-development stormwater runoff levels. Any excess stormwater must be attenuated and/or treated.

An **Application for Stormwater Discharge** is a document that identifies the development activity and stormwater management solutions that ensures that the quantity and quality of stormwater generated from the sites do not exceed the pre-development levels. It is a basis for the review and a provision for the **Stormwater Discharge Certificate** that grants approval for discharge into the stormwater network.

Fully completing the application will ensure a well-prepared stormwater management solution that meets Council's requirements and standards. It may reduce the time and cost of assessment.

This guide describes the main parts of the applications and provides examples of how to complete the calculations for pre-development areas and post-development area and how to use the acceptable solution tool.

Acceptable Solutions to meet the stormwater management requirements are continually being developed. If you're not keen on an acceptable solution or your development is ineligible for the available acceptable solutions, then you will be required to provide hydraulic and/or engineering calculations from a qualified person to demonstrate compliance of your proposed design with the stormwater management requirement.

When is a Stormwater Discharge Certificate required?

The Application and a Stormwater Discharge Certificate is required for development activity that creates **greater than 30m^2 of hard surface area.**

Tables 1 and 2 overleaf summarise the stormwater management requirements for the different zones and development sizes. The depth for the Rainfall Events and Duration in the respective townships can be found on the High Intensity Rainfall Design Figures at ***www.timaru.govt.nz/SDC*** – refer to Related Information on the right.

Stormwater treatment is required in all zones except for Residential activities in Residential zones. There are treatment requirements for non-residential activities within Residential Zones including roads. Treatment devices must be sized to treat a minimum of 21mm of the first flush rainfall or minimum flow rate of 10mm/hr for proprietary treatment devices.

Table 1: Summary of Stormwater Management requirements for Minor Development

Development	Zone	Residential	Commercial	Industrial	Other
	Impervious Area	>30 m² and <500 m² <70% total site	>50 m² and <500 m²	>30 m² and <500 m²	
Attenuation	Rainfall Event	1 in 10 years	1 in 10 years	1 in 50 years	1 in 50 years
	Event Duration	1 hour	1 hour	1 hour	1 hour
Treatment	Minimum Depth or Rate	None	21mm First Flush or 10mm/hr Flow Rate		

Table 2: Summary of Stormwater Management requirements for Major Development

Development	Zone	Residential*	Commercial	Industrial	Other
	Impervious Area	>500 m²			
Attenuation	Rainfall Event	1 in 10 years	1 in 10 years	1 in 50 years	1 in 50 years
	Event Duration	24 hours	24 hours	24 hours	24 hours
Treatment	Minimum Depth or Rate	21mm First Flush or 10mm/hr Flow Rate			

* Non Residential Activities including roads in Residential Zone are required to have stormwater treatment

Procedure for obtaining a Stormwater Discharge Certification

1. Complete an **Application for Stormwater Discharge** Form. The form and further information are also available at ***www.timaru.govt.nz/SDC***.

2. Return the Application for Stormwater Discharge to Timaru District Council. An Application for Stormwater Discharge can accompany a Building Consent, Land Use Consent application or a Services Consent application.

3. Please submit all additional information as specified on the Application for Stormwater Discharge Form. This typically includes: a Site Plan, Acceptable Solution calculation sheet or other calculations and specific design details, and any relevant correspondence between Council, applicant or agent. Incomplete application forms will not be processed.

4. Once you have lodged an Application for Stormwater Discharge, staff will carry out a vetting process to determine what stormwater management solution has been proposed. If an **Acceptable Solution** by Timaru District Council has been proposed and vetted, a Stormwater Discharge Certificate will be granted and no stormwater discharge application fees will be payable. If an alternative design solution has been proposed, the design will be assessed and fees will be invoiced based on actual cost of assessment.

5. Prior to any discharges being made from the premises to the Public Stormwater Network, a Stormwater Discharge Certificate must be received from the Timaru District Council and a Stormwater Device Registration form must be verified at Infrastructure Compliance Certification.

Submit your application for Stormwater Discharge and accompanying material by:

- Dropping it into any Council office or service centre, or
- Emailing to ***stormwater@timdc.govt.nz***

Application Fees

- No application fee is payable if a Council Acceptable Solution is chosen.
- If an Alternative Design Solution is submitted, application fees are based on actual cost of assessment.

Additional Information to help with filling in the Application Form

The information below is designed to help you complete the corresponding numbered Questions on the **Application for Stormwater Discharge**.

2 Include the site address from which the stormwater discharge will occur. The valuation number, lot number and DP number may be found on your Council rates invoice. Please note that all Site Plans provided should be consistent across all consent applications.

3.1 The Stormwater Management Area Boundaries are available at ***www.timaru.govt.nz/maps/stormwater***.

3.2 Ensure you provide a brief description of the type of activity at the site.

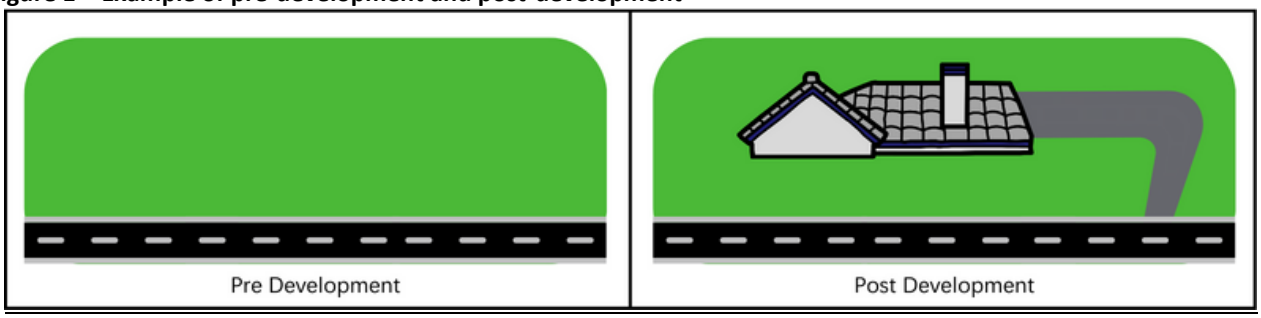
3.3 If discharging to an existing lateral pipe owned by an adjacent property, proof of easement must be attached.

3.4 Schedule 3 of Canterbury Land and Water Regional Plan is available at ***www.ecan.govt.nz***. To check if any HAIL (Hazardous Activities and Industries List) Activities found within your site, go to ***https://llur.ecan.govt.nz/home***.

3.5 Schedule 4 of Canterbury Land and Water Regional Plan is available at ***www.ecan.govt.nz***.

3.7 The map for the related natural hazards is available at ***www.timaru.govt.nz/maps/stormwater***.

3.9 **Figure 1 – Example of pre-development and post-development**



Proposed increase in hardstand surface is more than 30m2

The Table in Section 3.9 must be filled with the accurate areas from the development/redevelopment proposal. Below is an example for a new development application.

Surface types	Pre-Development Area (m2)	Post-Development Area (m2)
Roof Areas	0	120
Other Hardstand Areas	0	50
Pervious Surface Areas	420	250
Total Area (m2)	420	420

Acceptable Solution No 1 Selection Sheet

Where an Acceptable Solution is used, include a completed calculation sheet. The Acceptable Solution 1 - Tank Selection Sheet can be downloaded from the Timaru District Council website: www.timaru.govt.nz/SDC.

Enter the relevant areas from Section 3.9 of the Application for Stormwater Discharge into the tool. The stormwater runoff will be calculated automatically, and an attenuation tank can be selected from the dropdown list.

The completed calculation sheet must be submitted with the Application for Stormwater Discharge and the drainage plans. Calculations will be verified prior to issuing the Stormwater Device Certificate, and the installed device will be inspected as part of the Code Compliance Certification process.

Figure 2 overleaf shows an example of a completed Acceptable Solution 1.0 Calculation Sheet.

Figure 2 – Example of Acceptable Solution No. 1 - Selection Sheet

Acceptable Solution 1 - Rainwater Tank Selection Sheet

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Location and site characteristics

Note: Click the Location and Soil Type cells and select the correct options from the dropdown lists.

Location	Timaru	ARI	1-10 ARI
Soil Type	Heavy clay	Critical Storm Duration	1 hour
Activity	Residential	Rainfall Intensity mm/hr	25

Site Pre develoment and Site Post Development Areas

Note: Please only insert in the blue cells the Pre development ares and the Total Post development areas.

Surface types	Pre-Development Area (m2)	Post-Development Area (m2)	Post-Pre development Areas (m2)	C Values
Roof Areas	0	120	120	0.9
Other Hardstand Areas	0	50	50	0.8
Pervious Surface Areas	420	250	-170	0.4
Total Area (m2)	420	420	0	

Site Data Validity

Note: Do not change. The questions below are automatically responded based on the areas provided.

Do the Total Areas add up ?	Yes
Is the total roof area greater than 30m2 and less than 250m2 ?	Yes
Is the total site impervious surface less than 70% ?	Yes
Suitable for Acceptable Solution No.1	

Above ground Tank Selection for the additional roof area only (>30m2 <250m2)

Note: Only click the blue cell and select the Proposed Tank Type from drop-down list.

Total Roof Runoff to be captured (L)	2700
Tank Capacity (L)	3000
Orifice diameter (mm)	19.00
Oriffice height (m)	0.44
Tank Type	Promax Slimline Tank



3.10 If the site is located within the Washdyke Stormwater Management Area, indicate whether stormwater discharges from copper, galvanised, unpainted zincalume or any other unpainted metal roof material, gutters, downpipes or external cladding to the network. The boundary of Washdyke Stormwater Management Area is available at ***www.timaru.govt.nz/maps/stormwater***.

4.1 If an alternate solution has been proposed rather than using an Acceptable Solution, please provide corresponding hydraulic and/or engineering calculation sheet from a qualified person to demonstrate conformance of the proposed design.

4.2 Provide the details of all stormwater devices on the site. I.e. function type, number of each device, device type, make/model, design capacity/rate, and any additional information should be noted in the description.

5 A site plan (preferably scaled to A3 size with digital PDF files) must be included with the application. It must clearly show the items detailed on the application form.

6 All tick box items listed are to be provided on the plan.

7 The applicant or their authorised agent must sign and date the form and indicate their position.