Western
Bay of Plenty
District Council

Mā tō tātou takiwā

For our District

Annual Report to Bay of Plenty Regional Council

Western Comprehensive Stormwater Annual Report

67093-DC.01CSC

November 2023

Contents

1. Introduction

Western Bay of Plenty District Council (WBOPDC) holds Resource Consent 67093-DC.01. The purpose of this Resource Consent is to:

a) Authorise the discharge of stormwater from urban areas within the Western Catchments (refer to condition 2) of the Western Bay District; associated with the resource consents listed in Schedule 1 (as may be updated to include applicable consents which post-date the decision on this CSC); and

b) To authorise temporary discharges of sediment contaminated stormwater from earthworks related to the replacement of stormwater infrastructure; and

c) To incorporate existing stormwater discharges associated with the existing resource consents listed in Schedule 1: List of stormwater related consents in the Catchment Management Plans WSZ1, WSZ2 and WSZ3 submitted in support of this application (as updated on 23 January 2020).

The Consent requires monitoring of a range of environmental indicators to assess the quality of stormwater discharges and sediment quality at the upstream, downstream, and stream-channel locations of the receiving environment.

Pursuant to Condition 9.4 of Resource Consent 67093-DC.01, a summary of the monitoring results is to be collated in a report with other Stormwater network information from the reporting year (October to September calendar year).

9.4 The consent holder must submit to the Regional Council Chief Executive or delegate an annual report for the Waihi Beach and Katikati catchments, in November of each year, covering:

a) A summary report of any monitoring undertaken including an analysis of the monitoring results;

b) Any stormwater network or stormwater infrastructure upgrade works undertaken;

c) Any stormwater induced erosion, flood risk alleviation, or stormwater quality mitigation measures implemented;

d) Any incidents resulting in unanticipated contaminants entering the stormwater network, the Investigation of the cause of the incidents and any remedial actions implemented to avoid a repeat occurrence of incident

e) An updated Asset Register; and

f) Any new structures to be included in the consent (Asset Register)

Table 1. Consent condition specific information.

Consent Condition 9.4	**Supporting information (Page no.)**
(a) A summary report of any monitoring undertaken including an analysis of the monitoring results;	5
(b) Any stormwater network or stormwater infrastructure upgrade works undertaken	27
(c) Any stormwater induced erosion, flood risk alleviation, or stormwater quality mitigation measures implemented;	28
(d) Any incidents resulting in unanticipated contaminants entering the stormwater network, the Investigation of the cause of the incidents and any remedial actions implemented to avoid a repeat occurrence of incident	31
(e) An updated Asset Register; and	32
(f) Any new structures to be included in the consent (Asset Register)	32

2. Monitoring Data Review

The following section presents an overview of the monitoring results with a reporting period from 1 October 2022 – 30 September 2023. Specifically, this includes the results for water quality at the five monitoring locations within the catchment (Appendix A). This includes the findings from laboratory analysis and field observations.

The current reporting period includes quarterly baseline samples and 4 rainfall events. While only two rainfall event samples are required annually, due to the locations of these sites and the strict time frame in which the first flush must be collected, these samples have been split up across the monitoring period during various rainfall events to catch the first flush per site.

The trigger levels added to each graph (where applicable) only apply to the downstream sites during rainfall events. However, these trigger values have been applied to all graphs to assess whether upstream samples also exceeded these levels.

Overall, regarding Consent Condition 8.1 no water quality trigger values were exceeded in three consecutive sampling results, at the same site:

Where the quality of receiving waters into which stormwater is discharge exceeds the trigger levels listen in Table 1 of Appendix A to this Consent after reasonable mixing, the consent holder must implement the actions identified in Condition 9.2.

9.2 … If any water quality trigger value referred to in condition 8.1 is exceeded in three consecutive sampling results for the same site, the consent holder must undertake a contaminant source investigation within 3 months of the third exceedance and submit a report to the Regional Council Chief Executive or delegate.

2.1 Water quality laboratory analysis

An overview of the results for water quality monitoring are presented in the following sub-sections. Results for each parameter are plotted separately. The respective sample locations are illustrated in Appendix A.

Where applicable the horizontal dark red and grey line(s) indicates the ANZG (2018) 90% default guideline values (DGVs) for freshwater receiving environment trigger values. For those graphs where the dark grey line is not present, there are no relevant trigger values. Many of the monitoring results were below the laboratory level of reporting. For the purpose of analysis here, results were conservatively assumed to be equal to the reporting limit (e.g., <0.01 mg/L is reported as 0.01 mg/L).

Some monitoring locations, particularly point of discharge and downstream locations are close to the coastal marine area (CMA) boundary and are likely influenced to some extent by the tides (e.g. a change in flow speed or direction and changes in salinity). For consistency, sites that are outside the CMA have been assessed against freshwater guideline values to be consistent with their corresponding upstream sites. This is a