

Site Compliance Report

Site No: REG605625
Site Owner: Waikato District Council
Site Name: Tuakau Storm Water: Bollard Rd, Tuakau
Date: 24 March 2021

1 INTRODUCTION

The following resource consents are held for the site:

Resource Consent	Status	Description	Commenced	Expiry
AUTH102892.01.01	Current	Construct a well for water supply purposes	12/11/1999	19/10/2034
AUTH104139.01.01	Current	Install a new 825mm stormwater outlet structure in the Whakapipi Stream for stormwater discharge purposes	1/12/2000	1/07/2035
AUTH105051.01.01	Current	Divert and discharge urban stormwater runoff and associated contaminants at multiple locations to land, the Whakapipi Stream, Tutaenui Stream and Kairoa Stream, and use discharge structures in the general vicinity of Tuakau Urban Area	27/11/2008	14/11/2028

This report examines the level of compliance of Waikato District Council with the selected conditions of the resource consents.

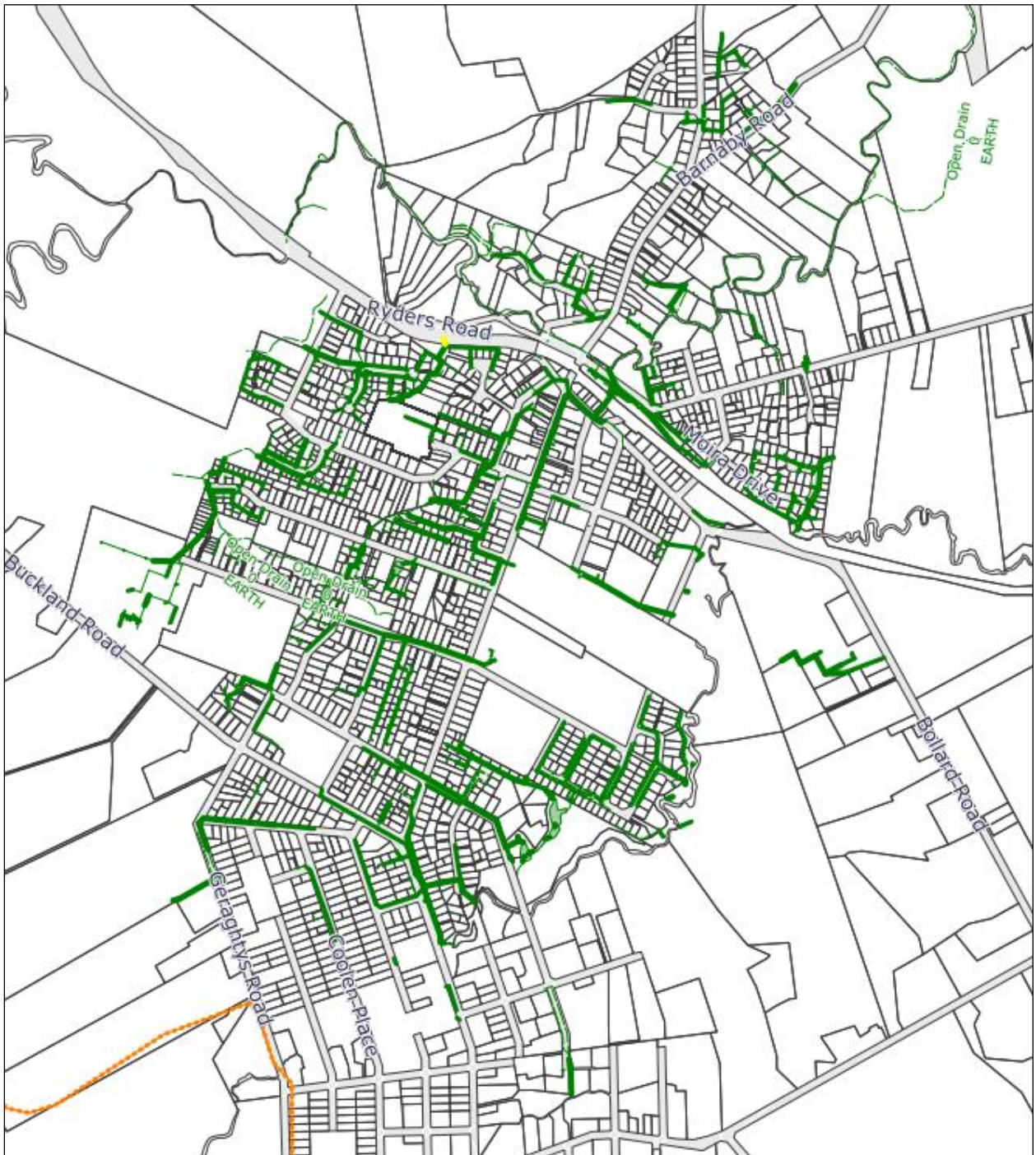
2 BACKGROUND

The consent holder Waikato District Council (WDC) has entered into a commercial arrangement with Watercare Services Limited (WSL) to operate and report on the 3-waters services of WDC. To this end WSL have employed a dedicated stormwater engineer to improve the operation, recording and reporting of stormwater assets. This has resulted in a new format of annual reporting based on a scoring system that measures the compliance of the various stormwater systems operating throughout the WDC area.

WSL has also compiled a new Stormwater Management Plan and Monitoring plan which should also improve the knowledge of operations staff, monitoring staff and improve the quality of submitted data to WRC to provide an improved picture of stormwater discharge on the receiving environment.

2.1 PREVIOUS COMPLIANCE HISTORY

Date Period	Compliance status
1 July 2020 to 30 June 2021	High level of compliance
1 July 2019 to 30 June 2020	Full compliance
1 July 2018 to 30 June 2019	Not undertaken
1 July 2017 to 30 June 2018	Not undertaken
1 July 2016 to 30 June 2017	Not undertaken
1 July 2015 to 30 June 2016	Not undertaken
1 July 2014 to 30 June 2015	Not undertaken



Tuakau Stormwater Assets

3 COMPLIANCE ASSESSMENT

Unless otherwise specified in this document this assessment covers the period from **1 July 2019 to 30 June 2020**.

This compliance assessment has been undertaken based on the submitted annual report by the consent holder, monitoring data supplied throughout the compliance period and any site inspections undertaken. Some administration, duplicate or irrelevant conditions have been omitted for brevity.

Please note that a description of the classification system used to describe compliance status is given in Appendix 1 of this report.

AUTH104139.01.01 - Bed - structure

Activity Authorised: Install a new 825mm stormwater outlet structure in the Whakapipi Stream for stormwater discharge purposes	
Condition No.	Description
7	The consent holder shall maintain the culvert and flood channel in the immediate vicinity clear of obstructions.
Evidence	No information on the maintenance of this particular stormwater asset has been provided to WRC
Status Reasoning	Unable to assess compliance due to lack of information
Action Required	Please provide an update on the condition and any maintenance undertaken at this asset Not assessed
Authorisation Compliance: Not assessed	

AUTH105051.01.01 - Water - stormwater

Activity Authorised: Divert and discharge urban stormwater runoff and associated contaminants at multiple locations to land, the Whakapipi Stream, Tutaenui Stream and Kairoa Stream, and use discharge structures in the general vicinity of Tuakau Urban Area	
Condition No.	Description
1)	This consent is subject to the General Conditions listed in Schedule A.
Evidence	see assessment against schedule A below
Status Reasoning	
Action Required	Full compliance
2)	All municipal stormwater diversion and discharge activities that are authorised by this consent shall be designed, operated and maintained in general accordance with the application for this consent, the General Conditions in Schedule A of this consent, and as identified in the resource consent conditions below.
Evidence	
Status Reasoning	
Action Required	Full compliance
3)	Except as provided for by Condition 4 of the General Conditions listed in Schedule A of this consent, all municipal stormwater diversion and discharge activities that are authorised by this consent relate to the Franklin District Council municipal stormwater system as constructed at the commencement of this consent, and as generally shown on the Franklin District Council Tuakau Catchment Map dated 17 January 2008, or any subsequent catchment map approved by the Waikato Regional Council acting in a technical certification capacity. Any new municipal stormwater diversion and discharge activities that become authorised after the granting of this consent shall be shown on an updated version of the Tuakau Catchment Map, and this shall be provided to the Waikato Regional Council in accordance with Condition 5 of this consent.
Evidence	
Status Reasoning	
Action Required	Not assessed
4)	The consent holder shall retain suitably qualified and experienced persons to prepare a monitoring programme. The objectives of the monitoring programme are to: - Investigate the actual and potential adverse effects of the municipal stormwater system's diversion and discharge activities on the receiving environment; - Provide information that will be used to determine stormwater management initiatives that, through implementation, will avoid, remedy or mitigate actual or

	<p>potential adverse effects on the receiving environment; - Determine compliance with the conditions of this consent. As a minimum, the monitoring programme shall include: a) Monitoring for visual signs of contaminants in stormwater (conspicuous oil or grease films, scums or foams, floatable suspended materials, conspicuous change in colour or visual clarity). b) Monitoring to identify adverse scour and erosion effects caused by municipal stormwater diversion and discharge activities. c) Monitoring to identify adverse flooding effects to land and property caused by municipal stormwater diversion and discharge activities. d) Monitoring to identify municipal stormwater diversion and discharge structures that are impeding the upstream and downstream movement of fish. e) Monitoring to ensure that all municipal stormwater system management devices are maintained in good working order, and stormwater quality treatment devices achieving optimal contaminant removal efficiency at all times. f) Monitoring to determine efficient street and catchpit cleaning operations and frequencies. g) Monitoring to identify informal wastewater system connections to the municipal stormwater system, and to gauge wastewater pump station overflow frequencies. h) Monitoring to determine municipal stormwater system collection points that are at risk from non-routine contaminant discharges. The monitoring programme shall be to a standard acceptable to the Waikato Regional Council acting in a technical certification capacity, and shall be forwarded to the Waikato Regional Council by 30 April 2009 for approval. The consent holder shall review the monitoring programme on a triennial basis, and shall forward any suggested alterations to the monitoring programme to the Waikato Regional Council for approval. The Waikato Regional Council will review and may alter the monitoring programme (in scale and/or method and/or location) after having had regard to the consistency and significance of the monitoring data collected, and/or any other information relating to the activities authorised by this consent. This may result in discontinuing or altering various aspects of the monitoring programme to initiate stormwater flow monitoring, stormwater quality sampling, sediment quality sampling and/or biological sampling of stormwater receiving waters, as considered appropriate. Note: Waikato Regional Council staff will consult with Franklin District Council staff prior to requiring any significant alterations to the monitoring programme.</p>
Evidence	<p>Waikato District Council has entered into a contractual agreement with Watercare Services Ltd who have employed a stormwater engineer (Andrew Baldero) to review the monitoring program for the WDC.</p>
Status Reasoning	
Action Required	Full compliance
5)	<p>The consent holder shall provide to the Waikato Regional Council a written management report by 30 April 2010 and annually thereafter for each year that this consent is current, unless otherwise advised by the Waikato Regional Council acting in a technical certification capacity. As a minimum this report shall include the following: a) A detailed summary of the Stormwater Management Plan initiatives undertaken during the year, along with the results of these initiatives. Also a detailed summary of the Stormwater Management Plan initiatives that are proposed for the coming year, along with any proposed amendments to the plan if/where considered appropriate by the consent holder. b) Results of the monitoring required by Condition 4 of this consent, along with a critical analysis of the data, a detailed summary of the findings, a comparison of the findings to relevant literature and guideline documents, identification of any emerging trends and specific reference to the requirements of Conditions 22 - 26 (water quality conditions) of this consent. Suggested modifications to the monitoring requirements of Condition 4 should also be provided, if/where considered appropriate by the consent holder. c) A detailed summary of the level of compliance achieved with all conditions of this consent, including any reasons for non-compliance or difficulties in achieving compliance. d) Details of all non-routine contaminant discharge incidents that have been responded to, and a summary of the outcomes of these incidents. Also identification of any changes in incident response protocols, or any management decisions that have been implemented to reduce the occurrence and/or potential effects of these types of incidents. e) A detailed summary of significant complaints received in regard to the activities authorised by this consent. A summary of how these complaints have been responded to should also be provided. f) An updated Tuakau Catchment Map showing all new municipal stormwater diversion and discharge activities authorised by this consent. g) Details of any other matters relevant to this consent and/or that the consent holder wishes to report. Note: for the purposes of (5)(b), relevant literature and guideline documents are considered to be historical data, the guidelines set out in the NIWA 'Urban Runoff Data Book' (1993), and the Guideline Trigger Levels in the Australian and New Zealand Environment and Conservation Council Guidelines for Fresh and Marine Water Quality (2000), or any other technical publication approved in advance by the Waikato Regional Council acting in a technical certification capacity.</p>

Evidence	An annual report was submitted to WRC in November 2020	
Status Reasoning		
Action Required		Full compliance
Schedule A 1)	The consent holder shall be responsible for the design, maintenance and physical integrity of the municipal stormwater system, and shall operate and maintain the municipal stormwater system to avoid, remedy or mitigate adverse effects on the environment.	
Evidence	<p>The WRC stormwater and development guidelines along with the Regional Infrastructure Technical Specification (RITS) outlines the required standards to provide an effective utility service.</p> <p>Design, maintain and operate a robust, sustainable and compliant stormwater system. Scoring is based on the overall performance of consent compliance for Tuakau.</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 2)	The consent holder shall not undertake any changes to the municipal stormwater system which would increase the scale and/or intensity of actual or potential adverse effects of municipal stormwater diversion and discharge activities on the receiving environment.	
Evidence	<p>Updates of assets are managed through the consenting process and communication with the LDE team (WDC). Changes to assets are managed by the main WDC database and reported each year. Urban area asset maps have been updated and included in this report.</p> <p>Database management to migrate to WSL. Up to date functionality and reporting of asset data. Asset surveys currently being commissioned for Tuakau for completion in 2022.</p> <p>Tuakau had 604 assets added to the asset database since the consent was granted in December 2008 giving a total asset count of 2404. 136 assets were added to the database for the 2019/2020 reporting period. A summary of added assets is detailed</p>	
Status Reasoning	No specific details of any changes implemented by the consent holder have been provided. A general summary of the number of changes have been supplied	
Action Required		Not assessed
Schedule A 3)	The consent holder shall seek to implement Best Practicable Options to minimise actual and potential adverse effects of municipal stormwater diversion and discharge activities on the environment.	
Evidence	<p>During the consenting process (operational reviews and pre- application meetings) WSL undertakes technical reviews to ensure best practical options are provided for new developments. Assets projects follow best management process including safety in design to ensure best practical outcomes.</p> <p>Establish a close relationship with the LDE team at WDC to ensure best practical options are provided. Increase coverage of reviews for new developments.</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 4)	All new municipal stormwater diversion and discharge activities commenced after the granting of this consent shall be authorised by this consent when the consent holder is notified in writing by the Waikato Regional Council to this effect. Such notification shall be provided on receipt of information showing to the satisfaction of the Waikato Regional Council acting in a technical certification capacity, that: a) the new diversion or discharge is consistent with the conditions of this consent; and b) for new diversion or discharge activities in developed urban catchments – the	

	<p>new diversion or discharge does not increase peak discharge rates to, or flow volumes in, receiving waters above those that would occur at the time of granting this consent, unless it is demonstrated that there shall be no additional adverse effects on the environment or downstream properties as a result of such increase; or c) for new diversion or discharge activities in undeveloped catchments - the new diversion or discharge is consistent with a Catchment Management Plan, prepared in accordance with Condition 29 of this consent, and approved by the Waikato Regional Council acting in a technical certification capacity prior to any new diversion or discharge activities occurring within the catchment.</p>
Evidence	<p>All new SW diversion and discharge since the consent are covered by the consent within the urban area. New discharges are not to increase peak flows or volumes unless no adverse effects. All new discharges must comply with the catchment management plan.</p> <p>These conditions are achieved by utilising the consent process to provide technical reviews of consents (LDE and consenting teams at WDC + Operations at WSL)</p>
Status Reasoning	
Action Required	Full compliance
Schedule A 5)	The consent holder shall be responsible for any scour or erosion control works that become necessary to maintain the physical integrity and stability of land and the beds of receiving water bodies, where such effects are caused by the municipal stormwater diversion and discharge activities authorised by this consent.
Evidence	<p>WDC identify adverse scour effects through use of its Customer Request Management System and through observations and inspections during general maintenance activities. No issues were reported for this reporting period.</p> <p>WRC has received no complaints relating to erosion or scour of stormwater assets during this compliance period.</p>
Status Reasoning	
Action Required	Full compliance
Schedule A 6)	The consent holder shall remedy adverse scour and erosion effects to land and the beds of receiving water bodies, where such effects are caused by the municipal stormwater diversion and discharge activities authorised by this consent.
Evidence	<p>WDC identify adverse scour effects through use of its Customer Request Management System and through observations and inspections during general maintenance activities. No issues were reported for this reporting period.</p> <p>Provide a more formalised reporting; inspections and mitigation works summary for the 2020/2021 Annual Report.</p>
Status Reasoning	
Action Required	Full compliance
Schedule A 7)	The consent holder shall ensure that the municipal stormwater system is operated and maintained in such a way as to reasonably minimise the potential for adverse flooding effects to land and property that may otherwise result from municipal stormwater diversion and discharge activities Note: Municipal stormwater diversion and discharge activities in conjunction with urban land-use can adversely affect flood potential by either limiting the rate at which stormwater drains from a catchment, or by increasing the rate and volume of discharge to downstream catchments. Whilst such effects are the subject of this consent, it is also recognised that 'levels of service' for catchment flooding are established by the consent holder through separate statutory procedures and consultation with its community. These 'levels of service' are not the subject of this consent.
Evidence	WDC identify adverse flood effects through use of its Customer Request Management System and through observation and inspection during flood events. No issues were reported for this reporting period. Catchment management plans and flood modelling is also undertaken for active flood management and identifying flood risk areas.

	<p>No significant flood events recorded, and all CRM issues have been managed by the operations team.</p> <p>WRC have received no reports or complaints of flooding in relation to stormwater assets during this compliance period.</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 8)	<p>The consent holder shall be responsible for avoiding, remedying and mitigating any adverse flooding, scour, erosion or sedimentation effects on private land and drainage systems where these effects are caused by the municipal stormwater diversion and discharge activities authorised by this consent. To this end the consent holder shall keep a record of complaints associated with municipal stormwater diversion and discharges to private land and drainage systems, and the actions taken by the consent holder in response to these complaints.</p>	
Evidence	<p>WDC identify adverse flood effects through use of its Customer Request Management System and through observation and inspection during flood events.</p> <p>No CRM items identified adverse effects from private drainage. More formalised reporting required for 2020/2021 annual report.</p> <p>WRC have received no reports or complaints of flooding in relation to private land and drainage systems during this compliance period</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 9)	<p>As far as practicable, the consent holder shall manage the municipal stormwater system such that stormwater diversion and discharge activities do not result in more than minor adverse effects on aquatic ecosystems.</p>	
Evidence	<p>Adverse effects on aquatic ecosystems (receiving environments) are minimised and avoided through the establishment and implementation of appropriate management initiatives as detailed in this report and the SMP. Same condition as 26 (both are scored the out of 10 giving this condition a weighting of 20)</p> <p>Due to the results of the water sampling, an investigation into the cause of the non-compliances will be undertaken in 2021.</p>	
Status Reasoning	<p>No information or adequate sampling data has been provided from which an assessment of compliance can be made.</p>	
Action Required	Forward the results of any sampling undertaken in 2021 to WRC as soon as the results are available.	Not assessed
Schedule A 10)	<p>As far as practicable, and with the exception of ephemeral watercourses, all structures that have been placed in natural and modified watercourses to enable municipal stormwater diversion and discharge activities shall allow for the safe upstream and downstream movement of fish. When acting on this condition, all stormwater system modifications and fish passage devices shall be designed and constructed to the satisfaction of the Waikato Regional Council acting in a technical certification capacity. Note: When acting on this condition the consent holder shall also consult with the Department of Conservation, in accordance with Part VI of the Freshwater Fisheries Regulations 1983.</p>	
Evidence	<p><i>As part of its ongoing asset upgrade and improvement, WDC includes provision of fish passage through culverts where problems are identified, and remediation is practicable. No fish passage issues have been identified to date, however a preliminary inspection and assessment is required.</i></p> <p><i>A preliminary inspection and assessment is planned for the 2020/2021 reporting period. The outcomes will be reported in the next report.</i></p>	

	WRC has not received any complaints or reports relating to fish passage through any stormwater assets however no routine sampling of assets has occurred.	
Status Reasoning		
Action Required		Full compliance
Schedule A 11)	All Franklin District Council asset management activities, including those relating to: a) municipal stormwater system activities; b) municipal water and wastewater systems activities; c) municipal roading and footpath activities; d) municipal parks and gardens activities; e) municipal refuse collection activities; and f) municipal building maintenance activities - shall be undertaken and managed to minimise contaminants discharging to/from the municipal stormwater system to the receiving environment.	
Evidence	<p><i>All WDC asset management activities are undertaken in a manner that minimises potential for contaminant discharges to the stormwater system or receiving environments. Wastewater and water supply systems are undertaken by WSL on behalf of WDC and are reported separately. The WDC roading alliance undertakes road maintenance (street sweeping and catchpit clearing).</i></p> <p><i>Additional information on other services to be provided in the 2020/2021 reporting period. Rating given as minor as specific conditions relating to performance of these activities are covered in other conditions.</i></p> <p>As far as WRC is aware the consent holder does manage its assets to minimise contaminants discharging to/from the municipal stormwater system to the receiving environment.</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 12)	The consent holder shall carry out regular street and catchpit cleaning operations to minimise the volume of stormwater contaminants entering the municipal stormwater system and discharging to the receiving environment. When determining appropriate street sweeping frequencies, the consent holder shall take account of the land use characteristics within respective stormwater sub-catchments, the intensity of the various land use activities taking place, and any means other than street sweeping operations that are currently being used to control and/or treat contaminated stormwater.	
Evidence	<i>Street sweeping and catchpit cleaning undertaken by the WDC Roading Alliance at 6 monthly intervals. Review of maintenance frequency and device performance required.</i>	
Status Reasoning		
Action Required	Undertake Street sweeping and catchpit cleaning as required to ensure that stormwater devices are ok	Full compliance
Schedule A 13)	All stormwater catchpit devices that are associated with the municipal stormwater system shall be capable of capturing and retaining the majority of gross pollutants. New and/or replacement stormwater catchpits shall be further capable of capturing the majority of floatable contaminants, such as oil and grease, when constructed. Note: For catchpits that are not capable of capturing and retaining the majority of gross pollutants, the consent holder shall investigate and employ other means to minimise the discharge of gross pollutants from the municipal stormwater system.	
Evidence	<p><i>New catchpits are designed to the RITS standards. Existing catchpits retain sediment and limit floatable entering the stormwater network.</i></p> <p><i>Inspection of catch pits required.</i></p> <p>the annual report states that an asset survey will be undertaken during 2022</p>	
Status Reasoning	No Asset information pertaining to catchpit inserts has been submitted to WRC.	
Action Required	Please undertake an asset survey in 2022 and provide the results to WRC and update the Waikato DC GIS system.	Minor technical non-compliance

Schedule A 14)	All stormwater quality treatment devices that form part of the municipal stormwater system shall be operated and maintained to provide best practicable stormwater contaminant removal efficiency at all times.
Evidence	WDC undertakes regular maintenance of stormwater treatment devices to ensure effective operation. Treatment device locations and their specific maintenance frequencies are detailed in the SMP. Regular maintenance is currently being reviewed and will be revised if needed to ensure effective operation.
Status Reasoning	
Action Required	Full compliance
Schedule A 15)	The consent holder shall undertake monitoring and remediation programs that identify and discontinue informal wastewater system connections to the municipal stormwater system.
Evidence	No wastewater connections were identified or reported as part of the monitoring undertaken at Tuakau. Additional SW quality monitoring may assist to identify informal connections and effects. +
Status Reasoning	
Action Required	Not assessed
Schedule A 16)	Where formal wastewater system connections to the municipal stormwater system make up part of the municipal wastewater system design and operation, the consent holder shall undertake to minimise as far as practicable, the discharge of wastewater system contaminants to the municipal stormwater system.
Evidence	<i>Formal wastewater connections are tracked through the consenting process and reported on in the annual wastewater report. Formal wastewater connections are tracked through the consenting process and reported on in the annual wastewater report.</i> WRC is not aware of any formal wastewater connections.
Status Reasoning	
Action Required	Not assessed
Schedule A 17)	Events resulting in significant discharges of wastewater to the municipal stormwater system shall be reported to the Waikato Regional Council as soon as practicable after the consent holder becomes aware of such a discharge.
Evidence	Formal wastewater connections are tracked through the consenting process and reported on in the annual wastewater report. No outstanding incidents. Reported spills were controlled and closed out.
Status Reasoning	
Action Required	Full compliance
Schedule A 18)	The consent holder shall undertake investigations to identify and address routine contaminant discharges to the municipal stormwater system from known contaminated land, and commercial and industrial sites. In circumstances where site owners/operators are routinely discharging contaminants to the municipal stormwater system, or contaminants to land that could routinely discharge to the municipal stormwater system during rain events, the consent holder shall liaise with site owners/operators to determine appropriate stormwater management measures that will be implemented to avoid, or if avoidance is impractical, to remedy or mitigate these contaminant discharges.
Evidence	Investigation and mitigate known routine contaminant discharges to the stormwater system. Current consenting and trade waste permit process in place controls the potential routine contamination discharges. There are no known trade waste connections to the stormwater system in this area.

	No routine contaminant discharges to the stormwater system were reported during this reporting period from contaminated land, industrial or commercial properties.	
Status Reasoning		
Action Required		Minor technical non-compliance
Schedule A 19)	On becoming aware of a non-routine contaminant discharge to/from the municipal stormwater system, the consent holder shall make all reasonable attempts to stop the discharge and prevent further contaminant discharges from occurring. The consent holder shall seek to identify the source of the discharge and inform the Waikato Regional Council of the discharge incident as soon as practicable. At the written request of the Waikato Regional Council, the consent holder shall provide the Waikato Regional Council with information that it holds on its response to the discharge incident, and any other relevant information that may support subsequent enforcement action taken by the Waikato Regional Council against the discharger. For the purposes of this consent, a non-routine contaminant discharge to the municipal stormwater system is considered to be either an accidental spillage or a deliberate contaminant discharge, of which the consent holder has limited ability to control. Note: Requirements of the Fire Service Act and other legislative requirements may override the requirements of this condition.	
Evidence	<i>No non routine contaminant discharges to the stormwater system were reported during this reporting period.</i>	
Status Reasoning		
Action Required		Not assessed
Schedule A 20)	In circumstances where non-routine contaminants are discharged from the municipal stormwater system and result in actual adverse effects on the receiving environment, the consent holder shall provide practical assistance to the Waikato Regional Council, and any other emergency response agency that becomes involved, to remedy or mitigate against further actual or potential adverse effects on the receiving environment.	
Evidence	<i>No non-routine contamination discharges were reported from the stormwater system for the reporting period. Results of the water quality sampling requires follow up.</i> WRC has received no reports or complaints relating to non-routine discharges to the stormwater system during this compliance period	
Status Reasoning		
Action Required		Full compliance
Schedule A 21)	When permitting new or replacement connections to the municipal stormwater system the consent holder shall ensure that all such connections incorporate appropriate stormwater quality treatment devices that are capable of: a) minimising all contaminants such that the conditions of this consent are complied with; and b) preventing accidental releases of hazardous substances to the stormwater system; or c) reducing all such hazardous substances prior to discharge to receiving waters to concentrations that will not result in contamination of either water or sediments to such a degree that is likely to result in adverse effects on aquatic life, or on the suitability of water for human consumption after treatment.	
Evidence	The Regional Infrastructure Technical Specification (RITS) sets out the assessment processes, design guidelines and technical specifications for the design and construction of new stormwater infrastructure within Waikato District. This includes stormwater attenuation and treatment. Although assets have been added to the database in 2019, an asset survey is still required to update the database.	
Status Reasoning		
Action Required		Full compliance
Schedule A 22)	As far as practicable, the consent holder shall manage the municipal stormwater system to minimise the discharge of any substance that is likely to cause the production of conspicuous oil, or grease films, scums or foams, or floatable suspended materials in receiving waters after reasonable mixing.	

Evidence	<p><i>Discharges of floatable contaminants to receiving environments will be minimised and avoided through the establishment and implementation of appropriate management initiatives as detailed in the SMP.</i></p> <p><i>The catchpit grates limits floatable contamination reaching the stormwater outlets. Performance assessment required.</i></p> <p>No reports of any substance that is likely to cause the production of conspicuous oil, or grease films, scums or foams, or floatable suspended materials in receiving waters has been reported to WRC.</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 23)	<p>As far as practicable, the consent holder shall manage the municipal stormwater system to minimise the discharge of suspended solids and any other substances that are likely to cause the following effects in receiving waters after reasonable mixing: a) conspicuous changes in colour or visual clarity; b) increases in suspended solids concentrations by more than 10 percent; c) 100 grams per cubic metre suspended solids concentrations or greater.</p>	
Evidence	<p><i>Manage municipal SW system to minimise discharge of suspended solids. Suspended solids discharge is managed through the consenting process for new development and assessed by visual inspections, CRM reports and sampling.</i></p> <p><i>Additional visual inspection required to confirm compliance. No CRM reports of erosion and sediment. 2 Turbidity readings outside of trigger level (out of 30) giving a high compliance level.</i></p> <p>No reports of any discharge of suspended solids and any other substances that are likely to cause the following effects in receiving waters after reasonable mixing: a) conspicuous changes in colour or visual clarity; b) increases in suspended solids concentrations by more than 10 percent; c) 100 grams per cubic metre suspended solids concentrations or greater, have been reported to WRC</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 25)	<p>As far as practicable, the consent holder shall manage the municipal stormwater system to minimise the discharge of concentrations of micro-organisms to receiving waters that are likely to adversely affect human health. Where a question arises as to whether the concentration of micro-organisms is adversely affecting human health, it shall be determined through the application of the Microbiological Water Quality Guidelines for Marine and Freshwater Recreational Areas (MfE, 2003), or any other technical publication approved in advance by the Waikato Regional Council acting in a technical certification capacity.</p>	
Evidence	<p>Discharges of microorganism contaminants to receiving environments are minimised and avoided through the establishment and implementation of appropriate management initiatives as detailed in this report and the SMP. Refer to the water quality results summary in section 20.5.3.</p> <p>Review of Monitoring programme required along with a water quality investigation due to the faecal coliform results for Tuakau.</p>	
Status Reasoning	<p>Unable to assess the quality of stormwater in relation to micro-organisms due to a lack of sampling results.</p>	
Action Required	Provide a complete set of sampling results to WRC following the monitoring review	Not assessed
Schedule A 26)	<p>As far as practicable, the consent holder shall manage the municipal stormwater system to minimise discharges that are likely to adversely affect aquatic ecosystems and cause the following effects in receiving waters after reasonable mixing: Note: Conditions 22 - 26 describe receiving water effects that this consent is attempting to avoid, remedy or mitigate through improvements in the management and operation of municipal stormwater systems. Compliance with these conditions will therefore be determined through the establishment and implementation of appropriate stormwater management initiatives. These initiatives will aim to minimise (as far as practicable)</p>	

	municipal stormwater diversion and discharge activities that would otherwise cause these effects in receiving waters.	
Evidence	Adverse effects on aquatic ecosystems (receiving environments) are minimised and avoided through the establishment and implementation of appropriate management initiatives as detailed in this report and the SMP. Same condition as 9 (both are scored the out of 10 giving this condition a weighting of 20)	
	Water quality effects investigation and additional sampling required to quantify effects on the aquatic system.	
Status Reasoning	unable to assess compliance due to a lack of sample results.	
Action Required	Provide a complete set of sampling results to WRC following the monitoring review	Not assessed
Schedule A 27)	The consent holder shall prepare and implement a Stormwater Quality Improvement Programme, designed to improve the quality of municipal stormwater discharges and to generally assist the consent holder in meeting the requirements of the stormwater quality conditions of this consent. The Stormwater Quality Improvement Programme shall form part of the Stormwater Management Plan required by Condition 34 of this consent, and shall be implemented through this plan.	
Evidence	Stormwater quality improvement are achieved through the implementation of appropriate management initiatives as detailed in section 22.	
	No new stormwater quality initiatives commenced during in the 2019/2020 reporting period. The catchpit labelling initiatives are currently active.	
Status Reasoning		
Action Required		Not assessed
Schedule A 28)	The consent holder shall prepare and implement a Stormwater Information Programme, designed to increase the general publics understanding of stormwater management and the ways in which the public can minimise the contamination of stormwater and the impedance of stormwater flows. The Stormwater Information Programme shall form part of the Stormwater Management Plan required by Condition 34 of this consent, and shall be implemented as part of this plan.	
Evidence	WDC's stormwater education programme is described in the SWP and the stormwater initiatives section 22.	
	No new education program initiatives were undertaken in the 2019/2020 reporting period other than the catchpit labelling.	
Status Reasoning		
Action Required		Full compliance
Schedule A 29)	In accordance with Condition 4(c) of this consent, Catchment Management Plans that are prepared to enable new municipal stormwater diversion and discharge activities in undeveloped catchments shall be approved by the Waikato Regional Council prior to the undertaking of these activities. To this end, Catchment Management Plans shall be prepared in consultation with the Waikato Regional Council and other key stakeholders and, as a minimum, Catchment Management Plans shall detail the following information: a) Catchment maps / drawings of the catchment, delineating the catchment boundary, catchment topography, receiving environment and existing land uses within the catchment; b) Social, economic, ecological, amenity and cultural objectives being sought for the catchment; c) Identification of the key stakeholders within the catchment, and details of the consultation initiatives undertaken with key stakeholders; d) Classification of the receiving waters within the catchment in accordance with the Waikato Regional Plan; e) An assessment of the current status of the catchment and receiving environment, and the provision of detailed baseline information of the geological, hydrological, ecological and existing infrastructural characteristics of the catchment, including any existing resource use authorisation within the catchment; f) Identification of potential urban growth, development and land use intensification within the catchment; g) An assessment of the potential effects of stormwater diversion and discharge activities on the catchment and receiving environment, including but not limited to effects on: i)	

	<p>Sites of cultural and/or historical significance; ii) Public health, iii) Flooding hazards, iv) Receiving water hydrology, including base flows in rivers and streams and long-term aquifer levels, v) Receiving water sediment and water quality, vi) Receiving water habitat, ecology and ecosystem health, vii) The natural and amenity values of receiving waters, viii) Receiving water riparian vegetation, ix) The extent and quality of open stream channels, x) Fish passage for indigenous and trout fisheries, xi) Erosion and sedimentation of receiving waters, xii) The discharge and accumulation of litter; xiii) Existing infrastructure, xiv) Existing authorised resource use activities; h) The cumulative effects of stormwater diversion and discharge activities within the catchment, the range of general management options available and the Best Practicable Option to prevent and minimise the adverse effects of stormwater diversion and discharge activities, and to mitigate or offset any significant unavoidable adverse effects; i) The effectiveness of District Plan provisions to implement the management approach adopted by the CMP and, where necessary, the changes or variations to relevant District Plan provisions likely to assist in achieving the objectives of the CMP; j) Education initiatives to support the catchment management objectives; k) The methods by which all stormwater diversion and discharge activities will be managed; l) A description of all infrastructure works scheduled by Franklin District Council which may significantly affect stormwater management within the catchment. Note: It is recognised that Catchment Management Plans may also include information that provide for the integration of other municipal water services (water and wastewater services). Such information and the integration of these services, is generally encouraged, particularly where it results in environmentally sustainable catchment management.</p>
Evidence	A CMP has been developed in consultation with stakeholders and has been approved by Waikato Regional Council.
Status Reasoning	
Action Required	Full compliance
Schedule A 30)	For all new stormwater diversion and discharge activities in urban development areas, the consent holder shall proactively encourage consideration of the Waikato Regional Council publication ‘Sustainable Subdivision Development – An Environment Waikato Perspective’ (WRC, 2006), or any other technical publication approved in advance by the Waikato Regional Council acting in a technical certification capacity.
Evidence	<p>this document has been superseded by the WRC Stormwater Guidelines 2018 which should now be used in preference.</p> <p><i>Waikato Regional Council’s publication of Waikato Stormwater Management Guidelines is being promoted for all new stormwater diversion and discharge activities in urban development areas.</i></p> <p><i>Reviews and involvement during the consent application and submission level is currently being undertaken when requested, however this was limited during the reporting period.</i></p>
Status Reasoning	
Action Required	Full compliance
Schedule A 31)	In addition to the requirements of Conditions 29 and 30 of this consent, the consent holder shall proactively encourage the implementation of Low Impact Urban Design principles and/or construction of stormwater management devices in urban development areas, to avoid and/or mitigate any potential adverse effects of new stormwater diversion and discharge activities, and to ensure that the condition requirements of this consent are met.
Evidence	<p>WDC’s approach to stormwater management includes the promotion of low impact design principles. WDCs and WRCs involvement in the consenting process ensures water sensitive developments are being approved and constructed. WSL, on behalf of WDC will continue to attend pre-consent application meetings and engineering design meetings. The Safety in Design requirements also facilitates WDC involvement.</p> <p>Reviews and involvement during the consent application and submission level is currently being undertaken when requested, however this was limited during the reporting period.</p>
Status Reasoning	

Action Required		Full compliance
Schedule A 33)	All stormwater management devices associated with the municipal stormwater system shall be maintained in good working order. The consent holder shall carry out all stormwater management device maintenance as necessary and, where practicable, within one week of receipt of notice in writing from the Waikato Regional Council to do so.	
Evidence	<p>Catchpits are maintained by the roading alliance.</p> <p>A review of the maintenance program for stormwater management devices is required to confirm compliance.</p>	
Status Reasoning	Unable to assess compliance due to a lack of information at this time.	
Action Required	Undertake an assessment of stormwater devices and include it in next years annual report	Minor technical non-compliance
Schedule A 34)	<p>The consent holder shall prepare a Stormwater Management Plan for the municipal stormwater system, and the stormwater diversion and discharge activities that are authorised by this consent. The Stormwater Management Plan shall be prepared in consultation with the Waikato Regional Council and other key stakeholders. The operational procedures and management initiatives that are detailed and implemented through the plan will largely assist the consent holder to achieve the condition requirements of this consent. The Stormwater Management Plan shall be submitted to the Waikato Regional Council for approval by 31 October 2009. The Stormwater Management Plan shall record the way in which the municipal stormwater system is operated, and shall include methods to avoid, remedy and mitigate the adverse effects of stormwater diversion and discharge activities on the environment. The Stormwater Management Plan shall be reviewable on a triennial basis and, as a minimum, shall detail the following information: a) The relationship and integration of the Stormwater Management Plan with other consent holder planning instruments and regulatory systems, including those that are utilised to assist the management of the municipal stormwater system; b) A plan or drawing of the municipal stormwater system showing all key features, including administrative area, hydrological catchments, physical reticulation system, stormwater management devices and receiving waters; c) A description of the municipal stormwater system, including infrastructure details, contributing catchments, existing land uses and receiving water descriptions (including locations, water quality, ecological and hydrological characteristics, and the existing uses and values of receiving waters); d) A description of municipal stormwater system operation and maintenance procedures, including operation and maintenance procedures associated with all stormwater treatment devices; e) Identification of High Risk Facility Sites and other potential sources of stormwater contaminants within reticulated catchments (including all potential sources of 'routine' and 'non-routine' contaminant discharges to the stormwater system); f) Management initiatives and implementation methods to avoid, remedy or mitigate 'routine contaminant' discharges to the municipal stormwater system. This should include the preparation and implementation of a Stormwater Quality Improvement Programme as required by Condition 27 of this consent; g) A Spill Response Plan, including detailed Standard Operating Procedures, for 'non-routine contaminant' spill incidents within reticulated catchments. The Spill Response Plan should also detail communication linkages with other key stakeholders and emergency response agencies who have administrative responsibilities associated with these types of incidents; h) Management initiatives and implementation methods to minimise 'formal' discharges from the municipal wastewater system to the municipal stormwater system; i) Management initiatives and implementation methods to identify and discontinue 'informal' wastewater system discharges to the municipal stormwater system; j) Management initiatives and implementation methods to identify and remedy adverse scour and erosion effects to land and the beds of receiving water bodies; k) Management initiatives and implementation methods to minimise adverse flooding effects to land and property; l) Management initiatives and implementation methods to avoid, remedy or mitigate adverse effects on aquatic ecosystems; m) Management initiatives and implementation methods to identify and remedy structures and stormwater management devices that are impeding the upstream and downstream movement of fish; n) Management initiatives and implementation methods to encourage the implementation of Low Impact Urban Design principals and/or construction of stormwater management devices in urban development areas; o) A register of all stormwater management devices associated with the municipal stormwater system, including their location, contributing catchment area, operational procedures and maintenance requirements; p) Management initiatives and implementation methods to undertake community and stakeholder information programmes. This should include the preparation and implementation of a Stormwater Information Programme as required by</p>	

	Condition 28 of this consent; q) Management initiatives and implementation methods to review, identify and implement Best Practicable Options; r) A prioritised schedule for implementing the procedures, management initiatives, implementation methods and other requirements identified in consent conditions and the Stormwater Management Plan.	
Evidence	<p>The proposed SMP has been developed in consultation with stakeholders and has been approved by Waikato Regional Council.</p> <p>A revised SMP has been issues to WRC in this reporting period.</p> <p>A stormwater Management Plan was submitted to WRC in November 2020 doc ref 17924232</p>	
Status Reasoning		
Action Required		Full compliance
Schedule A 35)	The consent holder shall appoint a representative who shall be the Waikato Regional Council's principal contact person in regard to matters relating to this consent. The consent holder shall forward contact details of its representative to the Waikato Regional Council. The consent holder shall inform the Waikato Regional Council in writing of any change in its representative as soon as practicable.	
Evidence	The consent holder has appointed Watercare Services Ltd to operate the 3 waters system and Andrew Baldero is the appointed person as a contact	
Status Reasoning		
Action Required		Full compliance
Authorisation Compliance:		High level of compliance

4 SUMMARY OF COMPLIANCE

Based on the conditions selected for monitoring, compliance has been assessed as:

Authorisation	Authorisation Description	Compliance Status
AUTH104139.01.01	Install a new 825mm stormwater outlet structure in the Whakapipi Stream for stormwater discharge purposes	Not assessed
AUTH105051.01.01	Divert and discharge urban stormwater runoff and associated contaminants at multiple locations to land, the Whakapipi Stream, Tutaenui Stream and Kairoa Stream, and use discharge structures in the general vicinity of Tuakau Urban Area	High level of compliance

Overall Site Compliance: High level of compliance

5 DISCUSSION AND CONCLUSIONS

There has been some significant improvement undertaken and pledged with respect to stormwater reporting from WSL. The Stormwater Management Plan has been completed and submitted to WRC. The annual reports are of a much higher quality than previous versions however there is still much information that is lacking or not up to date. This makes assessment of compliance difficult to undertake with many conditions either not assessed or not fully assessed due to a lack of information.

It is expected that for next year's annual reports on stormwater there will be a much more complete set of information that can give a better assessment of how compliant the consent holder is with these consents.

The lack of adequate information being collated and reported by the consent holder impedes the ability to adequately assess many of the conditions relating to asset numbers and quality however whilst this is non-compliance it is not directly related to any adverse effect on the environment, with perhaps the exception of missing information into fish passage through stormwater assets.

The lack of any complaints or reports of issues pertaining to stormwater assets from members of the public or any other organization is a good sign that the existing assets are functioning satisfactorily.

The screen shots below are taken from the submitted annual report and shows the internal WSL rating system used for scoring compliance within the WDC stormwater system. This system has ranked all the stormwater sites for various weighted factors to arrive at an overall score that can be compared and used to measure annual improvements in performance.

Results	
Level of compliance (overall rating)*	Partial Compliance
Reason for rating	Although there is no significant non compliances for Tuakau, there are several reporting criteria that require additional monitoring to reliably quantify this rating (refer compliance rating matrix summary).
Weighted compliance score**	74%

Action Summary:		
Description	Priority	Outcome
Water quality investigations required due to water quality results;	High	Improved water quality
Identification and consultation with high risk sites	High	Improved compliance from private consents and improved water quality
Fish passage assessment	Medium	To inform a works program required to remove fish passage barriers
Re-establish the community stormwater liaison group and undertake consultation activities.	Medium	Increase community engagement and collaboration for improved stormwater and community outcomes
Complete asset survey and update GIS data base	Medium	Improved asset management and reporting

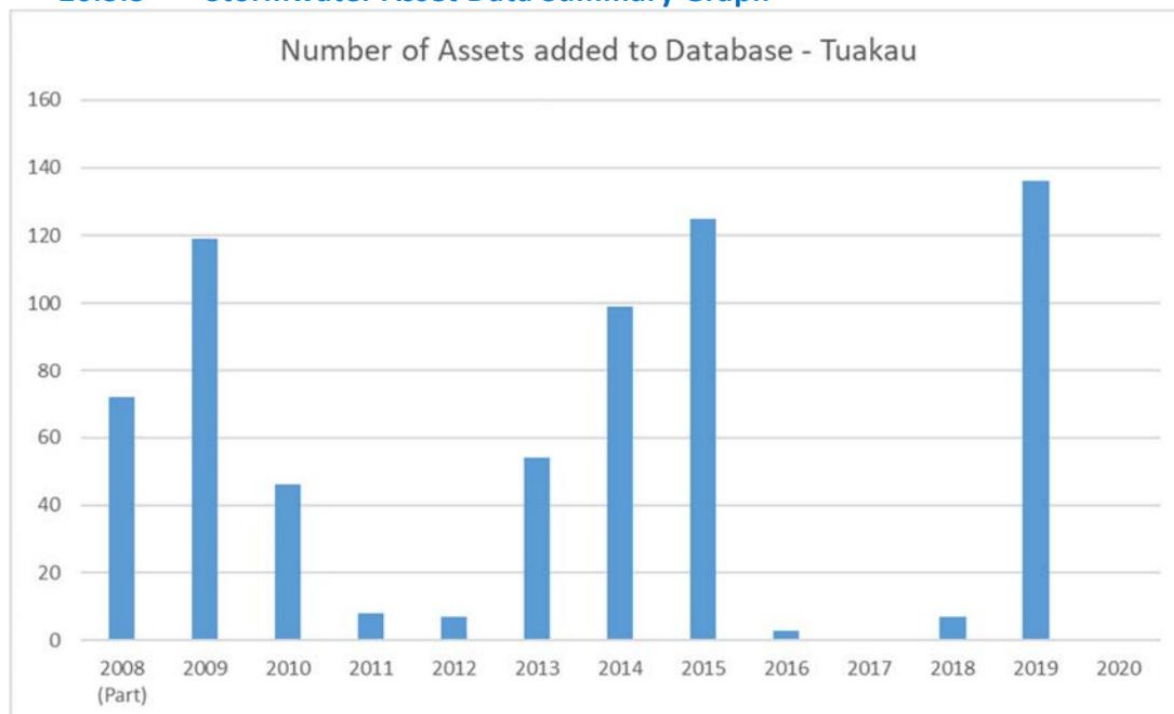
* Overall performance ratings align with the lowest compliance rating for conditions relating to greater than minor effects.

** Weighted score for ongoing comparisons and tracking

The Tuakau SWMP has been updated and issued within this reporting period (21 August 2019). The updated assets and catchment areas are shown on the revised layout map.

Tuakau had 604 assets added to the asset database since the consent was granted in December 2008 giving a total asset count of 2404. 136 assets were added to the database for the 2019/2020 reporting period. A summary of added assets is detailed below:

20.3.3 Stormwater Asset Data Summary Graph



In the absence of a full set of compliance information and data it has not been possible to fully assess compliance. However due to a lack of complaints from the public or reports from the consent holder or other sources it must be assumed that the stormwater assets are performing adequately. The most disappointing issue is the lack of sampling results from which an assessment of the stormwater quality could be made. There is a new stormwater monitoring plan being compiled currently which should improve the location, methodology and reporting of samples for the next annual report and audit.

6 SUMMARY OF ACTIONS REQUIRED

The following actions are required to be undertaken:

Resource consent	Condition	Action Required
AUTH104139.01.01	7	Please provide an update on the condition and any maintenance undertaken at this asset
AUTH105051.01.01	Schedule A 9)	Forward the results of any sampling undertaken in 2021 to WRC as soon as the results are available.
AUTH105051.01.01	Schedule A 12)	Undertake Street sweeping and catchpit cleaning as required to ensure that stormwater devices are ok
AUTH105051.01.01	Schedule A 13)	Please undertake an asset survey in 2022 and provide the results to WRC and update the Waikato DC GIS system.
AUTH105051.01.01	Schedule A 25)	Provide a complete set of sampling results to WRC following the monitoring review
AUTH105051.01.01	Schedule A 26)	Provide a complete set of sampling results to WRC following the monitoring review
AUTH105051.01.01	Schedule A 33)	Undertake an assessment of stormwater devices and provide it in next year's annual report

7 RECOMMENDATIONS FOR WAIKATO REGIONAL COUNCIL

The consent holder should continue to improve its stormwater systems, operation and reporting and implement the actions as listed in the table above in section 6. These actions should be completed by no later than 30 June 2021 unless otherwise **stated in the action.**

I recommend this site, along with all other stormwater sites operated by WDC remain as a Focus Area 1 sites for the next compliance year to ensure the improving picture continues and that compliance continues to rise.



Edward Prince
**Senior Resource Officer - Infrastructure
Resource Use**

Date: 14 April 2021

7.1 Decision

I have reviewed this audit report and agree with the recommendations.



Hugh Keane
**Team Leader - Infrastructure
Resource Use**

Date: 14 April 2021

APPENDIX 1

Compliance Status for Individual Conditions

Compliance Status	Description
Not assessed	Monitoring of this condition was not undertaken during this monitoring event
High priority non-compliance	The non-compliance has the potential for, or has resulted in, significant adverse effects on the environment.
Medium priority non-compliance	There is non-compliance with limits or other direct controls on adverse effects; and The non-compliance has the potential for, or has resulted in, a greater than minor increase in the level of effects authorised.
Low priority non-compliance	There is non-compliance with limits or other direct controls on adverse effects; and The non-compliance has the potential for, or has resulted in, a less than minor increase in the level of effects authorised; and/or There has been a significant technical non-compliance such as a failure to collect or supply self-monitoring data.
Minor technical non-compliance	There is non-compliance with a condition, or part of a condition, that does not directly control adverse effects; and The non-compliance was not significant in the management of effects. For example a short delay in supplying data or meeting a deadline for a report
Full Compliance	The condition has been complied with

Compliance status for individual consents and the entire site

Compliance Status	Description
Not assessed	Monitoring has not been undertaken at this site during the current financial year
Significant non-compliance	There has been a high priority non-compliance; and/or There have been several medium priority non-compliances.
Partial compliance	There has been a medium priority non-compliance; and/or There have been several low priority non-compliances.
High level of compliance	There has been a low priority non-compliance; and/or There have been several minor technical non-compliances.
Full compliance	All conditions that include limits or other direct controls on adverse effects have been complied with. A small number of minor technical non-compliances may have occurred.