

Wairoa WWTP Conditions – 4 September 2020– Version 20

CONDITIONS RELATING TO WAIROA DISTRICT COUNCIL WASTEWATER DISCHARGE CONSENTS

CONSENT HOLDER: WAIROA DISTRICT COUNCIL

WAIROA WASTEWATER TREATMENT PLANT AND PUMP STATION OVERFLOW DISCHARGES AND DISCHARGE STRUCTURES

Version Control

Version	Who	Date	Reason
14	LEI	29/11/18	With application
15	HL	27/2/20	Updated before prehearing – additions to application version in tracked changes
16	CD/HL	13/3/20	Updated after prehearing – additions to application version in tracked changes
17	CD/HL	26/4/20	Incorporated changes suggested by submitters and HBRC. Comments included for further discussion. SS – Shade Smith
19	HL/CD	5/5/20	Incorporated comments from HBRC reviewers
20	LEI/WDC/CD	4/09/20	WDC team review to address feedback from HBRC and submitters, and to rationalise conditions.

Definitions:

The following definitions apply across all resource consents:

Terminology Used	Definition	Reviewer Feedback	WDC Comment	Revised Terminology	Revised Definition
		HBRC May be useful to include Māori words/definitions	WDC agree, but need to be selective.	See Wairoa River addition below.	
Consent holder	Means Wairoa District Council		No feedback received. No change proposed.	Consent Holder	Means Wairoa District Council
Activities	Means the Activities authorised by the Resource Consents		No feedback received. No change proposed.	Activities	Means the Activities authorised by the Resource Consents
WWTP	Means the Wairoa wastewater treatment plant including all current and future treatment processes and storage facilities within the WDC land parcel located at Whakamahi Road legally described as Part Lot 1 DP 3350 SO 7253, Wairoa District, C/T HBJ2/800.		No feedback received. No change proposed.	WWTP	Means the Wairoa wastewater treatment plant including all current and future treatment processes and storage facilities within the WDC land parcel located at Whakamahi Road legally described as Part Lot 1 DP 3350 SO 7253, Wairoa District, C/T HBJ2/800.
Resource Consents	Consents means [list consents....]	HBRC These will need to reflect those activities referenced in the notification document, refer to draft activities table which will need to be finalised to reflect changes made from original application (particularly AUTHs AUTH-123624-01 &	WDC agree and have inserted the wording used in the public notification of the consent applications.	Resource Consents	<u>Means resource consents granted by Hawke’s Bay Regional Council to the Consent Holder for the following Activities:</u> <ul style="list-style-type: none"> To discharge treated wastewater from the Wairoa WWTP to the Wairoa River within the coastal marine area via an outfall structure (pipeline) and its associated overflow outlet pipe (Rule 160 – Regional Coastal Environmental Plan (RCEP)); To discharge untreated wastewater from the Alexandra Park and North Clyde pump stations via overflow outlet pipes into the Wairoa River (Rule 52 – RRMP);

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		AUTH-124094-01 refer to email)			<ul style="list-style-type: none"> To discharge untreated wastewater from the Kopu Road pump station via overflow outlet pipe into the Wairoa River (Rule 9 – RCEP); To allow for the relocation, maintenance and operation of the overflow outlets from the North Clyde, Alexandra Park, Kopu Road and Fitzroy Street pump stations (Rule 69 – RRMP); To discharge aerosols and odour to air associated with the receipt, treatment and storage of wastewater from the Wairoa WWTP (Rule 28 – Regional Resource Management Plan (RRMP)); The occupation of riverbed for the Wairoa WWTP’s outfall structure within the Coastal Marine Area (Rule 178 – RCEP); To replace the Wairoa WWTP’s outfall structure (pipeline) and any associated earthworks (Rule 97 – RCEP); The maintenance and potential re-establishment of the Wairoa WWTP’s outfall structure within the coastal marine area (relocation of main outfall structure) (Rule 117 – RCEP); To carry out earthworks, construction and rehabilitation activities related to the relocation and maintenance of the Wairoa WWTP’s main outfall structure (Rule 130 – RCEP); To carry out vegetation clearance and soil disturbance within the coastal marine area associated with the replacement (and future modification, relocation, and maintenance) of the Wairoa WWTP’s outfall structure (Rule 8 – RCEP).
				body representing Maori interests	Body or bodies representing the views of Maori with respect to wastewater management.
Treated Wastewater	Means secondary treated wastewater derived from the Consent Holder’s Wairoa WWTP.		No feedback received. No change proposed.	Treated Wastewater	Means secondary treated wastewater derived from the Consent Holder’s Wairoa WWTP.
			Inserted by WDC to acknowledge cultural values and clarify which reaches of the river are affected.	<u>Wairoa River</u>	<u>Te Wairoa Hōpūpū Hōnengenenge Matangirau which starts at Te Kapu (Frasertown) and ends at the sea. Te Wairoa Hōnengenenge from Turiroa to Kaimango (Spooner’s Point) and Te Wairoa Matangirau from Kaimango to the sea are the reaches of the Wairoa River that receive Wairoa’s wastewater discharges.</u>
River Flows ½ Median Median 3 x median	Are calculated based on the median flow for the Lower Wairoa River being 60 m ³ /s as determined by Hawke’s Bay Regional Council’s hydrologists based on daily flow data for 1985-2014. The Lower Wairoa River flow is calculated as follows: (Wairoa at Marumaru x 1.14639) + Waiau at Ardkeen		No feedback received. No change proposed.	River Flows ½ Median Median 3 x median	Are calculated based on the median flow for the Lower Wairoa River being 60 m ³ /s as determined by Hawke’s Bay Regional Council’s hydrologists based on daily flow data for 1985-2014. The Lower Wairoa River flow is calculated as follows: (Wairoa at Marumaru x 1.14639) + Waiau at Ardkeen <u>Advice Note:</u> HBRC’s hydrologists may adjust the value of the median from time to time to reflect changes indicated by more recent river flow data.
Outlet structure	Means the pipeline used for discharging treated wastewater into the Wairoa River from the WWTP. The pipe enters the riverbed opposite the intersection of Kopu Road and Fitzroy Street.		No feedback received. Minor change proposed.	Outlet structure	Means the pipeline and its diffuser structure that are used for discharging treated wastewater into the Wairoa River from the WWTP. The pipe enters the riverbed opposite the intersection of Kopu Road and Fitzroy Street.
		HBRC Added Structure design plan:	Need to insert ‘Outlet’ to clarify what this refers to. This is	<u>Outlet structure design plan</u>	<u>Means the detailed design plan of the outlet structure.</u>

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		Is the detailed plan of the outlet structure.	additional to Plan 1 showing the envelope for the location of the outfall's future modifications. [PL: Not sure whether to agree; maybe use some selected plans? Need to ensure that this does not trip up using the existing outfall prior to installing the new pipe and does not trip up any future outfall modifications – related conditions need to be clear on this.]		
		<p>HBRC Added</p> <p>Overall system plan:</p> <p>Plan showing the entire integrated operation. Including reticulation network, pond, storage and treatment systems, outfall structure and diffuser, and land discharge and other discharge provisions (including of mortuary waste)</p> <p>Malcolm: I am thinking they should provide us an up to date plan of the overall system. I don't know if there is a condition asking for that yet. Not unlike having an as built plan updated as more is added. There is a structure plan and a UV addition to be certified and storage pond and irrigation</p>	WDC reject. This is not possible, as the locations of storage and irrigation have not been determined. The suite of resource consents only relates to the river discharges and therefore it is not relevant nor appropriate to include plans for activities that are not within the scope of the river discharge consents.		
Council	Means the Regulatory Compliance Manager of the Hawke's Bay Regional Council.	HBRC Tania: Rather than Regulation Manager our standard wording is for the Compliance Manager to review and to approve documents on behalf of Council	Agree – need to refer to relevant person.	Council <u>Manager</u>	Means the Regulatory <u>Compliance</u> Manager of the Hawke's Bay Regional Council.
			Inserted by WDC for clarity.	<u>Council</u>	<u>Means the Hawke's Bay Regional Council</u>
MWWP	Maori Wastewater Working Party	HBRC Added	Agree	<u>MWWP</u>	<u>Means the Maori Wastewater Working Party</u>

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			Inserted by WDC for clarity and simplicity.	<u>River mouth closure restriction</u>	<u>Means when the channel at the river mouth is less than 2 m in width.</u>
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Colour code key
No changes requested
HBRC
SS
<u>Underline and strikethrough</u> are changes to conditions

NUMBER	DRAFT CONDITION AS AT 13 MARCH 2020 – VERSION 16 – WITH SUBMITTER FEEDBACK	SUBMITTER COMMENTARY	WDC DISCUSSION	NEW NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	OVERARCHING PRINCIPLES				OVERARCHING PRINCIPLES
	General				
1	<p>Except as otherwise required by any other condition of the Resource Consents, the Activities must be carried out in general accordance with the following information provided by the applicant (collectively referred to as 'the Application') in order of precedence:</p> <p>(a) Agreed outcomes from stakeholder engagement held post-application with local Maori and community groups.</p> <p>(b) Wairoa Wastewater Discharge – Resource Consent Application and AEE, dated November 2018, including Appendices A– F; and</p> <p>(c) Section 92 further information responses dated 19 May, 24 June, and 11 October 2019; and</p> <p>(d)(b) Additional information provided post-application from the applicant in a letter dated X and Y.</p> <p>(e)(c) Section 92 further information responses dated 19 May, 24 June, and 11 October 2019; and</p> <p>(f)(d) Wairoa Wastewater Discharge – Resource Consent Application and AEE, dated November 2018, including Appendices A- F; and</p>	<p>HBRC</p> <p>I think this should include an order of precedence, with this consent being first, and the AEE/application last. There will have been many modifications to the proposed solution since application/AEE.</p>	<p>Agree, but it's easier to add to the end of the list instead of inserting at the start.</p> <p>When requiring agreement with stakeholders to be reflected there needs to be a 'document' that can be linked to. Agree outcomes should be captured, but the document stating these outcomes must be listed.</p>	1	<p>Except as otherwise required by any other condition of the Resource Consents, the Activities must be carried out in general accordance with the following information provided by the applicant (collectively referred to as 'the Application') <u>where the most recent information takes priority over older information in the event of any conflicts:</u></p> <p>(a) Wairoa Wastewater Discharge – Resource Consent Application and AEE, dated November 2018, including Appendices A- F; and</p> <p>(b) Section 92 further information responses dated 19 May, 24 June, and 11 October 2019; and</p> <p>(c) Additional information provided from the applicant in a letter dated X and Y <u>4 September 2020; and</u></p> <p>(d) <u>Agreed outcomes from engagement with submitters as detailed in</u></p> <p style="padding-left: 40px;">a. ?</p> <p style="padding-left: 40px;">b. ?</p> <p style="padding-left: 40px;">c. ?</p>
	Maori Engagement				Maori Engagement
1a 2	<p>The purpose of the condition structure is to ensure the following outcomes are and remain core goals and principles that guide future changes to the consented activities:</p> <p>(a) the mauri of the Wairoa River is enhanced,</p> <p>(b) the role of [body representing Maori interests] as kaitiaki is enhanced, and the concept of whanaungatanga is implemented;</p> <p>(c) mahinga kai is not compromised;</p> <p>(d) <u>waste from mortuaries and funerary activities are separated from municipal wastewater and does not form part of the discharge to the Wairoa River Estuary.</u></p> <p>(e)(e) <u>[list others];</u></p>	<p>SS</p> <p>Does condition 23/24 (CHI monitoring) determine if mauri has been enhanced?</p> <p>How will iwi interests be enhanced?</p>	<p>WDC have included some clauses and more importantly changed from a condition to an Advice Note to assist with informing the discussion on the conditions. Ultimately this may be dropped out of the conditions.</p> <p>WDC agree with submitter's proposed (d). However, need to realise delivery on this addition</p>		<p><u>Advice Note: the following summary provides an overview of condition structure to assist with demonstrating how Maori views and values have been taken into account.</u></p> <p>The purpose of the condition structure is to ensure the following outcomes are and remain core goals and principles that guide future changes to the consented activities:</p> <p>(a) the mauri of the Wairoa River is enhanced,</p> <p>(b) the role of [body representing Maori interests] as kaitiaki is enhanced, and the concept of whanaungatanga is implemented;</p>

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	<p>(e)(f) treated wastewater discharges from the WWTP do not result in detectable adverse effects on the Wairoa River estuary and coastal water quality after reasonable mixing; and</p> <p>(g) options and funding sources to reduce the discharge of treated wastewater into the river and its effects on the river are continuously investigated and implemented to the greatest practicable extent.</p> <p>(f)(h) <u>Staged removal of untreated wastewater associated with network overflows.</u></p> <p>Advice Note: Compliance with all conditions of the resource consents shall be the means by which compliance with this condition is demonstrated. In all cases, the Consent Holder shall use reasonable endeavours to implement these principles.</p>	<p>Parameterise what the staging entails</p>	<p>may jeopardise funeral services in Wairoa.</p> <p>(h) Untreated overflows are rare occurrence now. Hard to stage as simply direct action/mitigation needs to be taken. Modified wording.</p> <p>(i) added clause that relates to public's actions</p>		<p>(c) mahinga kai is not compromised;</p> <p>(d) <u>wastes from mortuaries and funerary activities are separated from municipal wastewater and do not form part of the discharge to the Wairoa River Estuary.</u></p> <p>(e) [list others]</p> <p>(e) treated wastewater discharges from the WWTP do not result in detectable adverse effects on the Wairoa River estuary and coastal water quality after reasonable mixing; and</p> <p>(f) options and funding sources to reduce the discharge of treated wastewater into the river and its effects on the river are continuously investigated and implemented to the greatest practicable extent, <u>including but not limited to inflow and infiltration reduction, storage and land discharge schemes.</u></p> <p>(g) <u>Removal of untreated wastewater associated with network overflows. the public understanding and awareness are increased regarding how the public's actions can reduce water use and wastewater volumes.</u></p> <p>(h) <u>catchment enhancement opportunities that improve the quality of freshwater within the wider Wairoa River Catchment are consistently identified, coordinated with Iwi other stakeholders, funded, and actioned within an identified reasonable timeframe; and</u></p> <p>(i) <u>reporting on system performance is focussed on water quality improvements, and opportunities to reduce the volume of wastewater that needs to be discharged to the Wairoa River</u></p>
1a 2	<p>The purpose of the condition structure is to ensure the following issues and outcomes identified through the consenting processes are and remain core goals and principles that guide future changes to the consented activities:</p> <p>(a) the mauri of the Wairoa River is enhanced,</p> <p>(b) the role of [body representing Maori interests] as kaitiaki is enhanced, and the concept of whanaungatanga is implemented;</p> <p>(c) mahinga kai is not compromised;</p> <p>(d) treated wastewater discharges from the WWTP do not result in detectable adverse effects on the Wairoa River estuary and coastal water quality after reasonable mixing; and</p> <p>(e) options and funding sources to reduce the discharge of treated wastewater into the river and its effects on the river are continuously investigated and implemented to the greatest practicable extent, <u>including but not limited to inflow and infiltration reduction, storage and land irrigation schemes</u></p> <p>(f) <u>increasing levels of public understanding and awareness of how their (the public's) actions/activities can influence wastewater volumes, and the ways in which the public can reduce water use;</u></p> <p>(g) <u>catchment enhancement opportunities that improve the quality of freshwater within the wider Wairoa River Catchment are consistently identified, coordinated with Iwi other stakeholders, funded, and actioned within an identified reasonable timeframe;</u></p> <p>(h) <u>reporting on system performance is focussed on water quality improvements, and opportunities to reduce the volume of wastewater that needs to be discharged to the Wairoa River</u></p> <p>(e)(i)</p> <p>(f)(i) [list others];</p> <p>Advice Note: Compliance with all conditions of the resource consents shall be the means by which compliance with this condition is demonstrated. In all cases, the Consent Holder shall use all reasonable endeavours to implement these principles.</p>	<p>HBRC</p> <p>Jack Blunden - This is informative. A-d are not enforceable. F would be considered unreasonable as to continuously investigate is very onerous. I would think that an annual review is suitable. We would have to specify how the concept of whanaunatanga is implemented.</p> <p>Tania – Interested in Matt Lawson's take on this also given the concerns of our Compliance Team as above</p> <p>Nick – e ref conditions 46,47,57,58</p> <p>Nick – f ref condition 48</p> <p>Nick – g ref condition 49</p> <p>Nick – h ref condition 56</p> <p>Jack Blunden - If compliance with the conditions demonstrates compliance then this condition is really not necessary.</p>	<p>This condition was only intended to describe the goals and principles of these conditions in response to submitters' concerns. Was initially intended as an Augier condition which is not related to environmental or consenting scope issues, this is not meant to be enforceable by HBRC.</p> <p>WDC have included some clauses and more importantly changed from a condition to an Advice Note to assist with informing the discussion on the conditions. Ultimately this may be dropped out of the conditions.</p>		
1e 3	<p>To achieve Condition 2 above the consent holder must:</p> <p>(a) ensure human E. Coli associated with wastewater treatment plant is not detected in the Wairoa River by undertaking faecal source tracking once every two years at Site X and Y (Condition 22);</p>	<p>SS</p>	<p>WDC comments on submitters' comments:</p> <p>(b) this provides for two separate things. The general intent of no adverse effect is supported but covered elsewhere. Benthic monitoring is also discussed</p>	2	<p>To achieve Condition 2 above demonstrate its commitment to Maori engagement the Consent Holder must:</p> <p>(a) ensure human E. Coli associated with the wastewater treatment plant is not detected in the Wairoa River by undertaking faecal source tracking once every two years at Site X and Y (Condition 22 24);</p> <p>(b) contribute to Wairoa River catchment enhancement (Condition 49 47);</p>

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	<p>(a)(b) ensure detectable adverse effects on water quality and benthic ecology associated with wastewater discharge do not cause undue adverse effects by undertaking enterococci testing 6 monthly for water at sites X, Y and Z.</p> <p>(b)(c) contribute to Wairoa River catchment enhancement (Condition 49);</p> <p>(c) have considered and if practically possible ceased the discharge of mortuary waste to the sewer system (Condition 45);</p> <p>(d) invite resource [body representing Maori interests] to:</p> <p>i. prepare cultural health protocol and monitoring in accordance with Condition 23;</p> <p>ii. make an assessment of at the minimum the level to which mauri has been enhanced, mahinga kai has not been compromised (text needs refining)</p> <p>iii. nominate three-five representatives to sit on the MWWG in accordance with Condition 38;</p> <p>iv. involve the MWWG in reviews and system optimisation (Condition 58);</p> <p>v. invite resource [body representing Maori interests] to develop wānanga and karakia options to restore the mauri of the Wairoa River from the effects of wastewater treatment plant discharges and to restore cultural connections.</p> <p>Advice Note: The purpose of the MWWP (Condition 37) is for ongoing direct engagement between Maori and the Consent Holder in relation to activities at and discharges from wastewater treatment plant. <u>The body representing Maori interests shall include at a minimum Wairoa Taiwhenua and Tātau tātau o Te Wairoa</u></p>		<p>elsewhere. The inclusion of Enterococci is supported and this has been added to Condition 23.</p> <p>(c) [old] WDC consider appropriate to retain as this was clear objective of submitters. This is further reflected in Conditions 41-43.</p> <p>(d) agreed with submitters that if invited there will be resourcing, as provided for in Condition 6.</p> <p>(d)(ii) surely mauri enhancement etc will come from cultural monitoring. This is provided for elsewhere.</p> <p>(d)(v) initial wording clumsy as (d) provides for inviting/resourcing. WDC made modification.</p>		<p>(c) have considered and, if practically possible, ceased the discharge of mortuary waste to the sewer system (Conditions 41-43 45);</p> <p>(d) <u>Make best endeavours to transition to land-based discharge (Conditions 53-55); and</u></p> <p>(e) invite [body representing Maori interests] to:</p> <p>i. prepare cultural health protocol and monitoring in accordance with Condition 23 27;</p> <p>ii. nominate three representatives to sit on the MWWG in accordance with Condition 38 3;</p> <p>iii. involve the MWWG in reviews and system optimisation (Condition 58 55);</p> <p>iv. invite [body representing Maori interests] to develop wānanga and karakia options to restore the mauri of the Wairoa River from the effects of wastewater treatment plant discharges and to restore cultural connections.</p> <p>Advice Note: <i>The purpose of the MWWP (Condition 37 3) is for ongoing direct engagement between Maori and the Consent Holder in relation to activities at and discharges from the wastewater treatment plant.</i></p>
<p>16</p> <p>3</p>	<p>To achieve Condition 2 above the consent holder must:</p> <p>a) ensure human E. Coli associated with the wastewater treatment plant is not detected in the Wairoa River by undertaking faecal source tracking once every two years at Site X and Y (Condition 22);</p> <p>b) contribute to Wairoa River catchment enhancement (Condition 49);</p> <p>c) have considered and if practically possible ceased the discharge of mortuary waste to the sewer system (Condition 45);</p> <p>d) invite [body representing Maori interests] to:</p> <p>i. prepare cultural health protocol and monitoring in accordance with Condition 23;</p> <p>ii. nominate three representatives to sit on the MWWG in accordance with Condition 38;</p> <p>iii. involve the MWWG in reviews and system optimisation (Condition 58);</p> <p>iv. invite [body representing Maori interests] to develop wānanga and karakia options to restore the mauri of the Wairoa River from the</p>	<p>HBRC</p> <p>Malcolm: Are X and Y to be located in the river or in the treated waste stream before discharge? If in the river what will prove that the source is from the waste water? Will there be any human source above the wastewater? When will it be sampled? Tide and time of day? Is 1 x in 2 years appropriate.</p> <p>Shane: I see the intent [of (a)], but I'm not sure about how compliance with this condition will be achieved or enforced, given a standard for E. coli concentrations is provided for under Condition 11.</p> <p>I'm also not sure if source tracking would be capable of separating E. coli from the WWTP from other human sources</p>	<p>X and Y are meant to be in the river to show if there is any detectable pathogen load from the WWTP's discharge, with one being upstream.</p> <p>HBRC need to provide firm guidance on the pathogen analyses that could achieve the intent of this condition. It seems that this might not be realistic anyway and should be deleted?</p> <p>Agree to change MWWG to MWWP to match the definitions.</p> <p>WDC can only invite a third party to do cultural health protocols</p>		

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	<p>effects of wastewater treatment plant discharges and to restore cultural connections.</p> <p>Advice Note: The purpose of the MWWP (Condition 37) is for ongoing direct engagement between Maori and the Consent Holder in relation to activities at and discharges from the wastewater treatment plant.</p>	<p>I also note that E. Coli are generally used as an indicator for health risks associated with freshwater sites. It is not used as an indicator for health risks associated with shellfish gathering (which use faecal coliforms) or swimming and other recreational activities (which use Enterococci) at marine sites. Enterococci and faecal coliforms are probably more appropriate for the river estuary. E. coli may be appropriate for upstream freshwater sites.</p> <p>Jack: (d) Not enforceable as it doesn't require any further action.</p> <p>Nick: Should this be MWWP as in conditions 37 – 39? Should also be included in Definitions.</p>	<p>and monitoring; an invitation is enforceable. Whether and when that third party follows through on the invitation is outside of WDC's control and should not be a compliance or enforcement issue.</p> <p>It is important for iwi to be given this opportunity.</p>		
	Maori Wastewater Working Party		WDC believe this heading is no longer needed		Maori Wastewater Working Party
18b 37	<p>Within 6 months after the commencement of this Consent the Consent Holder must establish a Maori Wastewater Working Party (MWWP). The purpose of the MWWP is to review the operation and management of the Wairoa wastewater discharges, to evaluate information produced from these conditions, to understand limitations (including funding and certainty of outcome) and to inform decision making. Specifically, the MWWP shall:</p> <ul style="list-style-type: none"> (a) Identify and discuss opportunities to integrate tikanga Maori and to implement changes where those changes would reduce cultural effects; (b) Consider expert assessment from independent expert technical advisors; (c) Review, comment and make recommendations, including possible changes to design, methodology, management, operation of the network and treatment and discharge system or any monitoring or mitigation; (d) Identify and discuss external influences that may influence the impact of wastewater management, such as National and Regional policy changes, population growth and changes within the catchment; (e) Address implications for costs and affordability to the wider community; and (f) Be consulted on by the Consent Holder, and involved in the development of, the System Improvement Plan (Condition 58) and make comment and recommendations in relation to its final content. 	<p>SS</p> <p>Potentially rename (MWWP)</p>	<p>WDC have streamlined what were conditions 37 to 39 and created a new condition (see below).</p>		

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18e 38	<p>The MWWP must be invited to meet a minimum of annually with notice provided by the Consent Holder 4 weeks before the meeting and an agenda with relevant documents circulated 2 weeks before the meeting.</p> <p>The MWWP should consist of the following members:</p> <ul style="list-style-type: none"> (a) Two district councillors; (b) Three-Five Maori representatives to be selected by [body representing Maori interests]; (c) The infrastructure services manager (or nominee) representing the Consent Holder; (d) Independent expert technical advisors in the areas of community wastewater treatment, discharges and Matauranga Maori; and (e) An independent facilitator appointed by the representatives of the MWWP at their first meeting. <p>In respect of (b) above, [body representing Maori interests] must inform the Consent Holder of their selected representatives within 3 months of the commencement of consent if they want to be involved. All reasonable endeavours will be taken to ensure representatives are consistent and attend meetings and other such requirements.</p> <p>Any unanimous recommendations of the MWWP representatives in (a) to (c) above shall be implemented by the Consent Holder unless other statutory approvals or processes are also required. If such statutory approvals or processes are required, the Consent Holder shall use reasonable endeavours to obtain them.</p> <p>Any recommendations of the MWWP that are not unanimous must be considered by the Consent Holder and if not implemented reasons must be provided to the MWWP and recorded in the Annual Report (Condition 51).</p>	SS			
			<p>This condition is new and incorporates two previous conditions (37 and 38).</p> <p>WDC consider three Maori representatives is appropriate to ensure the group is small and there is a balanced membership.</p>	3	<p><u>Within 6 months after the commencement of this Consent the Consent Holder shall invite the following parties to establish a Maori Wastewater Working Party (MWWP) to assist its decision making around the review, operation and management of the Wairoa wastewater discharges, including preparation of the System Improvement Plans:</u></p> <ul style="list-style-type: none"> (a) <u>Three Maori representatives to be selected by [body representing Maori interests];</u> (b) <u>two District Council Councillors; and</u> (c) <u>the Infrastructure Services Manager (or nominee)</u> <p><u>In respect of (a) above, [body representing Maori interests] must inform the Consent Holder of their selected representatives within 3 months of the commencement of consent if they want to be involved. All reasonable endeavours will be taken to ensure representatives are consistent and attend meetings and other such requirements.</u></p>

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					<p>In addition to the parties in a – b, independent expert technical advisors in the areas of community wastewater treatment, discharges and Matauranga Maori can attend.</p> <p>An independent facilitator appointed by the representatives of the MWWP at their first meeting (and replaced as necessary by appointment of the MWWP during the term of the consents) shall run the meetings, producing an agenda and minutes.</p> <p><i>Advice Note: Further to the above, the purpose of the MWWP is to:</i></p> <ul style="list-style-type: none"> (a) <u>evaluate information produced from the conditions of consent.</u> (b) <u>help consider limitations (including funding and certainty of outcome) and opportunities</u> (c) <u>Identify and discuss opportunities to integrate tikanga Maori and to implement changes where those changes would reduce cultural effects;</u> (d) <u>Consider expert assessment from independent expert technical advisors;</u> (e) <u>Review, comment and make recommendations, including possible changes to design, methodology, management, operation of the network and treatment and discharge system or any monitoring or mitigation;</u> (f) <u>Identify and discuss external influences that may influence the impact of wastewater management, such as National and Regional policy changes, population growth and changes within the catchment;</u> (g) <u>Address implications for costs and affordability to the wider community; and</u> (h) <u>Assist the Consent holder to achieve its goals, these being:</u> <ul style="list-style-type: none"> i. <u>the mauri of the Wairoa River is enhanced,</u> ii. <u>the role of [body representing Maori interests] as kaitiaki is enhanced, and the concept of whanaungatanga is implemented;</u> iii. <u>mahinga kai is not compromised;</u> iv. <u>wastes from mortuaries and funerary activities are separated from municipal wastewater and do not form part of the discharge to the Wairoa River Estuary;</u> v. <u>treated wastewater discharges from the WWTP do not result in detectable adverse effects on the Wairoa River estuary and coastal water quality after reasonable mixing;</u> vi. <u>options and funding sources to reduce the discharge of treated wastewater into the river and its effects on the river are investigated and implemented to the greatest practicable extent, including but not limited to inflow and infiltration reduction, storage and land discharge scheme;</u> vii. <u>removal of untreated wastewater associated with network overflows; and</u>

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					viii. <u>the public understanding and awareness are increased regarding how the public's actions can reduce water use and wastewater volumes.</u>
			WDC extracted this from previous Condition 38 which sets out meeting requirements.	4	<u>The MWWP must be invited to meet a minimum of annually with notice provided by the Consent Holder 4 weeks before the meeting and an agenda with relevant documents circulated 2 weeks before the meeting.</u>
			WDC extracted this from previous Condition 38 which provides greater certainty that discussions and actions recommended by the MWWP will be actioned. It should be noted that the MWWP also contains Councillors who should be able to express views on behalf of the Consent Holder.	5	<u>Any:</u> (a) <u>unanimous recommendations of the MWWP representatives shall be implemented by the Consent Holder unless other statutory approvals or processes are also required. If such statutory approvals or processes are required, the Consent Holder shall use reasonable endeavours to obtain them.</u> (b) <u>recommendations of the MWWP that are not unanimous must be considered by the Consent Holder and if not implemented reasons must be provided to the MWWP and recorded in the Annual Report (Condition 51?).</u>
18d 39	On receipt of an itemised invoice, reasonable costs of preparing for and attending MWWP meetings by Maori representatives shall be paid by the Consent Holder.		WDC have inserted clarification that WDC's employees and Councillors will not be included in reimbursements because their costs are already a WDC function.	6	On receipt of an itemised invoice, reasonable costs of <u>members of the MWWP not otherwise employed by a Territorial Authority</u> preparing for and attending MWWP meetings by Maori representatives shall be paid by the Consent Holder.
	OPERATIONAL MATTERS				OPERATIONAL MATTERS
	Discharge Volumes and Timing				Discharge Volumes and Timing
2 4	Subject to Condition 6 [river mouth closure <u>restriction</u>], and until filtration and UV treatment is commissioned under Condition 41 and storage of an additional 10,000 m ³ has been commissioned, during Wairoa River flows: (a) Less than the median <u>3x median</u> the discharge of treated effluent wastewater from the outlet structure shall: i. be limited to 5,400m ³ during any 24 hour period; ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; iii. only occur after 6 pm; and <u>iv. shall cease by 6 am at all times (NZST??).</u> <u>iv-v. Shall be responsive to, i.e. recognise and provide for, the results from cultural monitoring at Kihitu, Te Manga, Whakamahia and Ngamotu and other sites e.g. if monitoring shows the tuna heke has begun, and the maramataka suggests it's the time for customary fishing to occur (often this is in the pre-dawn and early evening) then the discharge regime should be responsive to that,</u>	SS Insert conditions proposed in submission	Submitters have indicated the status of the river mouth should refer to restriction and not closure. WDC agrees with this. Also the submitters suggested using treated effluent. For consistency WDC is proposing the use of Treated Wastewater. During proofing of these conditions WDC identified the draft conditions did not reflect what was in the application. The result is a reduction in the volume that can be discharged below median flow (a). Also, the discharge volume above median and below 3 x median has been reduced (b). The commissioning of 50 ha of irrigation is also crucial	7	Subject to Condition 6 <u>10</u> [river mouth closure <u>restriction</u>], and until filtration and UV treatment is commissioned under Condition 41 <u>39</u> and storage of an additional 10,000 m ³ <u>and 50 ha of irrigation have</u> been commissioned, when during Wairoa River flows <u>are</u> : (a) less than the median the discharge of Treated w <u>Wastewater</u> from the outlet structure shall: i. be limited to <u>3,000</u> 5,400 m ³ during any 24 hour period; ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; iii. only occur after 6 pm; and iv. shall cease by 6 am at all times. (b) between the median and 3 x median the discharge of Treated w <u>Wastewater</u> from the outlet structure shall: i. be limited to <u>5,000</u> 5,400 m ³ during any 24 hour period;

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	<p align="center"><u>i.e. store wastewater till fishing ceased/liaise with kaitiaki to decide best time to discharge.</u></p> <p>(b) between the median and 3 x median the discharge of wastewater from the outlet structure shall:</p> <p>i. be limited to 5,400m³ during any 24 hour period;</p> <p>ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and</p> <p>iii.i. can occur at any time of the day providing (i) and (ii) are met.</p> <p>(c)(b) above 3 x median the discharge of wastewater from the outlet structure can occur at any time and volume is not limited.</p>		<p>for the successful reduction of discharges to the river.</p> <p>Regarding submitter comment:</p> <p>(a)(iv) WDC does not think reference to daylight saving is needed.</p> <p>(a)(v) the suggestion to provide for cultural monitoring while relevant is not appropriate for this condition. Such monitoring requirement is actually provided for in Conditions 27-28 and a review of the discharge regime is also provided for in Conditions 53-55.</p> <p>(b) and (c) are needed to allow for river flows above those in (a).</p>		<p>ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and</p> <p>iii. can occur at any time of the day providing (i) and (ii) are met.</p> <p>(c) above 3 x median the discharge of Treated Wastewater from the outlet structure can occur at any time and volume is not limited.</p>
2 4	<p>Subject to Condition 6 [river mouth closure], and until filtration and UV treatment is commissioned under Condition 41 and storage of an additional 10,000 m³ has been commissioned, when during Wairoa River flows are:</p> <p>(a) less than the median the discharge of wastewater from the outlet structure shall:</p> <p>i. be limited to 5,400m³ during any 24 hour period;</p> <p>ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide;</p> <p>iii. only occur after 6 pm; and</p> <p>iv. shall cease by 6 am at all times.</p> <p>(c) between the median and 3 x median the discharge of wastewater from the outlet structure shall:</p> <p>i. be limited to 5,400m³ during any 24 hour period;</p> <p>ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and</p> <p>iii. can occur at any time of the day providing (i) and (ii) are met.</p> <p>(d) above 3 x median the discharge of wastewater from the outlet structure can occur at any time and volume is not limited.</p>	<p>HBRC Nick: This condition continues the currently consented discharge conditions up to median river flows only (previously applicable at all river flows), allows discharge on any tide from median to 3x median river flows, and discharge at any time and volume above 3x median river flow. In effect this is a loosening of the current consent condition. Have this and the next condition been confirmed by other technical experts that this the required dilution will be achieved under these conditions – assuming the current WWTP effluent performance.</p> <p>Shane: I understand this condition is designed to reduce the potential/incidence for/of blockages of the outfall and associated surcharging. However, it has the potential to exacerbate microbial effects on an already compromised system. It would be good to get feedback from Nick on whether the proposed limits are technically justified.</p>	<p>As noted above, WDC identified that the draft conditions did not reflect what was sought in the application and have rectified this.</p> <p>WDC acknowledge that this is a loosening of the existing controls when the river is flowing at or <u>above</u> median, but WDC believe that this is justifiable because (b) reflects increased dilution by the river and reduced community contact with the river and allows for discharges to occur more slowly over two out-going tides; and (c) reflects very large dilution by flood flows (>3x median) which can readily accommodate a continuous discharge of WDC's largest likely flow, the public will not be swimming, boating or fishing in the river, and wastewater flows tend to be higher during storm events so WDC need to ensure that their storage capacity at the WWTP is not overwhelmed.</p>		
3 5	<p>Subject to Condition 6[river mouth closure], and once filtration and UV treatment is commissioned under Condition 41 and storage of an additional 10,000 m³ has been commissioned, during Wairoa River flows:</p>		<p>During proofing of these conditions WDC identified the draft conditions did not reflect</p>	8	<p>Subject to Condition 6-10 [river mouth closure restriction], and once filtration and UV treatment is commissioned under Condition 41 <u>39</u> and storage of an</p>

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	<p>(a) less than ½ median the discharge of wastewater from the outlet structure shall:</p> <ul style="list-style-type: none"> i. be limited to 5,400m³ during any 24 hour period; ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; iii. only occur after 6 pm; and iv. shall cease by 6 am at all times. <p>(b) between ½ median and 3 x median the discharge of wastewater from the outlet structure shall:</p> <ul style="list-style-type: none"> i. be limited to 5,400m³ during any 24 hour period ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and iii. can occur at any time of the day providing (i) and (ii) are met. <p>(c) above 3 x median the discharge of wastewater from the outlet structure can occur at any time and volume is not limited.</p>		<p>what was in the application. The result is, for:</p> <ul style="list-style-type: none"> (a) the volume discharge below ½ median is reduced and there is a daily limit on discharge days between December and March; (b) inclusion of a new (b) being a regime between ½ median and median; (c) (old (b)) being a reduction in the discharge volume above median and below 3 x median. <p>The commissioning of 50 ha of irrigation is also crucial for the successful reduction of discharges to the river.</p> <p>WDC have changed 'closure' to 'restriction' for consistency with other conditions below.</p>		<p>additional 10,000 m³ and 50 ha of irrigation have been commissioned, during when Wairoa River flows are:</p> <ul style="list-style-type: none"> (a) less than ½ median the discharge of Treated WWastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to <u>1,600</u> 5,400 m³ during any 24 hour period; ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; iii. only occur after 6 pm; and iv. shall cease by 6 am at all times; and v. <u>no more than 30 days discharge in December to March.</u> (b) <u>more than ½ median and less than the median the discharge of Treated Wastewater from the outlet structure shall:</u> <ul style="list-style-type: none"> i. <u>be limited to 3,000 m³ during any 24 hour period;</u> ii. <u>only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and</u> iii. <u>can occur at any time of the day providing (i) and (ii) are met.</u> (c) between ½—median and 3 x median the discharge of Treated WWastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to 5,400 <u>5,000</u> m³ during any 24 hour period ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and iii. can occur at any time of the day providing (i) and (ii) are met. (c) above 3 x median the discharge of Treated Wwastewater from the outlet structure can occur at any time and volume is not limited.
	River mouth closure		For consistency should refer to 'restriction' and not 'closure'.		River mouth closure restriction
4 6	<p><u>The consent holder shall assess the extent to which the river mouth is restricted by the taking of images of the river mouth at midday from an elevated position on Rangihoua (Pilot Hill) to ensure mouth is a minimum 2m in width, additionally</u> On Monday of each week the Consent Holder must view-assess the depth of the the river mouth and assess the extent of flow passing from the river to the sea. If the channel is less than 2 m in width <u>and 2m depth at the midpoint of</u> the river mouth is deemed to be closed-restricted and discharge flow restrictions as detailed in Condition 7 shall apply.</p> <p>[note this is suggested wording and needs refinement]</p>	SS	<p>Subject to WDC being able to confirm a suitable (secure) camera location, taking an elevated image is acceptable.</p> <p>WDC is of the opinion that there are practicality limitations with measuring depth and the assessment should be based on width only.</p>	9	<p><u>Within 6 months of the commencement of this consent, the Consent Holder shall install and maintain in working order a camera to continuously record a view of the Wairoa River mouth. A single daily image for 9 am shall be archived.</u></p> <p><u>Advice note: if the location of the river mouth changes then the camera direction will need to change.</u></p> <p><u>Or if a camera location cannot be found:</u></p> <p>On Monday of <u>each weekday</u> the Consent Holder must view the river mouth from an elevated position on Rangihoua (Pilot Hill) and visually assess the extent of river flow passing from the river to the sea. If the channel is less</p>
	On Monday of each week the Consent Holder must view the river mouth and assess the extent of flow passing from the river to the sea. If the channel is less than 2 m in	HBRC	Providing a remote camera can be used, daily assessments are acceptable to WDC. To be		

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	<p>width the river mouth is deemed to be closed and discharge flow restrictions as detailed in Condition 7 shall apply.</p> <p>[note this is suggested wording and needs refinement]</p>	<p>Jack Blunden – A daily inspection would be warranted as the river mouth could be closed for up to 6 days before the consent holder restricts discharge. This is something that can be checked on the way to the treatment plant.</p>	<p>confirmed but unfortunately there is no suitable place on council property and due to the nature of the river mouth moving up to 500m would require multiple cameras on public areas. This is too costly for WDC to consider and open to vandalism. Please note that river mouth monitoring is a HBRC responsibility.</p>		<p>than 2 m in width the river mouth is deemed to be restricted, the and discharge flow restrictions as detailed in Condition 7 <u>10</u> shall apply.</p>
5 7	<p>During times of river mouth closure, as defined in Condition 6, the Consent Holder shall cease the discharge of wastewater to the Wairoa River unless:</p> <p>(a) The ability to store excess wastewater has been exceeded; and/or</p> <p>(b) Prior to storage capacity at the wastewater treatment plant being exceeded, it is recognised that the maximum storage capacity is likely to be exceeded during a time when no discharge is allowed.</p>		<p>WDC have changed 'closure' to 'restriction' for consistency with other conditions. Note restrictions are defined in the Definitions.</p> <p>WDC also added an allowance for resuming discharges when storage has or will be exceeded, as is currently allowed. This avoids any discharge breaching the consents.</p>	10	<p>During times of river mouth closure <u>restriction</u>, as defined in Condition 6, the Consent Holder shall cease the discharge of Treated WWastewater to the Wairoa River unless:</p> <p>(a) The ability to store excess wastewater has been exceeded; and/or</p> <p>(b) Prior to storage capacity at the wastewater treatment plant being exceeded, it is recognised that the maximum storage capacity is likely to be exceeded during a time when no discharge is allowed.</p> <p><u>In the event that (a) or (b) apply, the Consent Holder may resume the discharge of Treated Wastewater to the Wairoa River in accordance with Conditions 7 or 8.</u></p>
6 8	<p>If river mouth closure is imminent, or has occurred, the Consent Holder must immediately contact the Council and enter into discussions to determine the options for mechanical opening of the river mouth. If deemed appropriate and the Council chooses to take action, the Consent Holder shall provide all assistance as deemed necessary.</p>		<p>WDC have changed 'closure' to 'restriction' for consistency with other conditions.</p>	11	<p>If river mouth closure <u>restriction</u> is imminent, or has occurred, the Consent Holder must immediately contact the Council and enter into discussions to determine the options for mechanical opening of the river mouth. If deemed appropriate and the Council chooses to take action, the Consent Holder shall provide all assistance as deemed necessary.</p>
44 9	<p>If the river mouth is closed and wastewater is discharged in accordance with Condition 7, prior to that discharge occurring, and as soon as reasonably practicable after becoming aware that a discharge will be necessary, the Consent Holder must holder shall notify the MWWP, Hawke's Bay District Health Board's Public Health Unit, and the Hawke's Bay Regional Council.</p> <p>Within 10 working days of a discharge undertaken in accordance with this consent condition ceasing, the consent holder shall provide the Council with written confirmation of the dates and times when a discharge in accordance with this condition commenced and ceased. This reporting shall also detail:</p> <p>(a) time of notation of Council, MWWP, and the DHB;</p> <p>(b) actions taken by the Consent Holder to limit and restrict discharges occurring; and</p> <p>(c) results of discussions with Council, including options, for mechanical opening of the river mouth.</p>	<p>SS</p> <p>Copy and paste condition 5? From old consent in terms of signage and how quickly that needs to occur , and who gets comms. Also specify new media, socials etc.</p>	<p>This is covered in condition 52 below.</p> <p>WDC have made some other minor changes.</p>	12	<p>If the river mouth is closed <u>restricted</u> and wastewater is <u>likely to be</u> discharged in accordance with Condition 7 <u>10</u>, prior to that discharge occurring, and as soon as reasonably practicable after becoming aware that a discharge will be necessary, the Consent Holder must holder shall notify the <u>MWWP, Hawke's Bay District Health Board's Public Health Unit (DHB), Wairoa District Council's Environmental Health Officer (EHO), and the Hawke's Bay Regional Council.</u></p> <p>Within 10 working days of a discharge undertaken in accordance with this consent condition ceasing, the consent holder shall provide the Council with written confirmation of the dates and times when a discharge in accordance with this condition <u>commenced and ceased</u>. This reporting shall also detail:</p> <p>(a) time of <u>notification</u> of Council, <u>EHO</u>, MWWP, and the DHB;</p>

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449	<p>If the river mouth is closed and wastewater is <u>likely to be</u> discharged in accordance with Condition 7, prior to that discharge occurring, and as soon as reasonably practicable after becoming aware that a discharge will be necessary, the Consent Holder must holder shall notify the <u>MWWP</u>, Hawke's Bay District Health Board's Public Health Unit, and the Hawke's Bay Regional Council.</p> <p>Within 10 working days of a discharge undertaken in accordance with this consent condition ceasing, the consent holder shall provide the Council with written confirmation of the dates and times when a discharge in accordance with this condition commenced and ceased. This reporting shall also detail:</p> <p>(a) time of notification of Council, <u>MWWP</u>, and the DHB;</p> <p>(b) actions taken by the Consent Holder to limit and restrict discharges occurring; and</p> <p><u>(c)</u> results of discussions with Council, including options, for mechanical opening of the river mouth.</p> <p>(e)(d) <u>Volumes discharged to land during this period</u></p>	<p>HBRC</p> <p>Malcolm: (d) Just a thought but needs a consent to allow discharge</p>	<p>WDC happy to adopt amended wording of Condition; good clarifications.</p> <p>WDC have added EHO as they also need to be notified.</p> <p>Not sure about validity or need for reporting any volumes discharged to land. In future this will be possible depending on soil moisture and other limitations. Regardless this will be separate consents.</p>		<p>(b) actions taken by the Consent Holder to limit and restrict <u>river discharges occurring including, where appropriate, discharges to land as an alternative to the river</u>; and</p> <p>(c) results of discussions with Council, including options, for mechanical opening of the river mouth.</p>
	<p>Discharge Quality Parameters</p>				<p>Discharge Quality Parameters</p>
710	<p>The discharge shall not give rise to any of the following effects in the Wairoa River after reasonable mixing:</p> <p>(a) The production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials; or</p> <p>(b) Any conspicuous change in the colour or visual clarity; or</p> <p>(c) Any emission or objectionable odour; or</p> <p>(d) The rendering of fresh water unsuitable for consumption by farm animals; or</p> <p><u>(e)</u> Any significant adverse effects on aquatic life.</p> <p>(e)(f) <u>No more than 3°C change in temperature compared to upstream mixing</u></p>	<p>SS</p>	<p>This condition was a s107 cut and paste. S107 does not include temperature change limitations, but HBRC's RRMP does. WDC is ok with change providing compliance measurement is not needed due to practicality of measuring.</p>	<p>13</p>	<p>The discharge shall not give rise to any of the following effects in the Wairoa River after reasonable mixing:</p> <p>(a) The production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials; or</p> <p>(b) Any conspicuous change in the colour or visual clarity; or</p> <p>(c) Any emission or objectionable odour; or</p> <p>(d) The rendering of fresh water unsuitable for consumption by farm animals; or</p> <p>(e) Any significant adverse effects on aquatic <u>life</u>; or</p> <p>(f) <u>No more than 3°C change in temperature compared to upstream.</u></p>

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11	<p>The Consent Holder must ensure that the Treated Wastewater meets the following standards prior to discharge to the Wairoa River:</p> <p>(a) The concentration of Soluble Carbonaceous five-day Biochemical Oxygen Demand (ScBOD₅) must not exceed 220 g/m³ in more than 8 out of 12 consecutive monthly samples, or 224 g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(b) The concentration of Total Suspended Solids (TSS) must not exceed 87 g/m³ for more than 8 out of 12 consecutive monthly samples, or 98 g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(c) The concentration of Escherichia coli (E. coli) must not exceed X cfu/100 mL for more than 8 out of 12 consecutive monthly samples, or X cfu/100 mL in more than 2 out of 12 consecutive monthly samples;</p> <p><u>(d)</u> The concentration of Ammoniacal Nitrogen (NH₄-N) must not exceed 36 g/m³ for more than 8 out of 12 consecutive monthly samples, or 40 g/m³ in more than 2 out of 12 consecutive monthly samples; and</p> <p><u>(d)(e) Require more stringency than previous consent provides incentive to move more quickly to land based discharge.</u></p> <p>Advice Note: Compliance will be demonstrated based on the samples required by Condition 12 [monitoring section]. The exceedance frequency allowed for the Treated Wastewater quality values identified above are based on monthly sampling over an annual 12-month monitoring period of 1 July to 30 June each year in accordance with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2. If the frequency of sampling is more than monthly, the allowed numbers of annual exceedances will need to be amended to remain in line with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2.</p> <p>[Note: discharge standards need to be discussed and refined]</p>	SS	Submitter insertion of (e) seems to be in the wrong place. This requirement is covered in Conditions 53 and 54.	14	<p>The Consent Holder must ensure that the Treated Wastewater meets the following standards prior to discharge to the Wairoa River:</p> <p>(a) The concentration of Soluble Carbonaceous five-day Biochemical Oxygen Demand (ScBOD₅) must not exceed 220 <u>25</u> g/m³ in more than 8 out of 12 consecutive monthly samples, or 224 <u>75</u> g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(b) The concentration of Total Suspended Solids (TSS) must not exceed 87 <u>70</u> g/m³ for more than 8 out of 12 consecutive monthly samples, or 98 <u>150</u> g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(c) The concentration of Escherichia coli (<i>E. coli</i>) must not exceed X <u>20,000</u> cfu/100 mL for more than 8 out of 12 consecutive monthly samples, or X <u>200,000</u> cfu/100 mL in more than 2 out of 12 consecutive monthly samples;</p> <p>(d) <u>The concentration of Enterococci must not exceed X 10,000 cfu/100 mL for more than 8 out of 12 consecutive monthly samples, or X 100,000 cfu/100 mL in more than 2 out of 12 consecutive monthly samples; and</u></p> <p>(e) The concentration of Ammoniacal Nitrogen (NH₄-N) must not exceed 36 <u>25</u> g/m³ for more than 8 out of 12 consecutive monthly samples, or 40 g/m³ in more than 2 out of 12 consecutive monthly samples.</p> <p>Advice Note: Compliance will be demonstrated based on the samples required by Condition 12 <u>23</u> [monitoring section]. The exceedance frequency allowed for the Treated Wastewater quality values identified above are based on monthly sampling over an annual 12-month monitoring period of 1 July to 30 June each year in accordance with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2. If the frequency of sampling is</p>

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<p>8 11</p>	<p><u>Prior to the commissioning of the new filtration and UV disinfection system (Conditions 40-41).</u> The Consent Holder must ensure that the Treated Wastewater meets the following standards prior to discharge to the Wairoa River:</p> <p>(a) [The] concentration of Soluble Carbonaceous five-day Biochemical Oxygen Demand (ScBOD₅) must not exceed 22023 g/m³ in more than 8-6 out of 12 consecutive monthly samples, or 224-xx g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(b) The concentration of Total Suspended Solids (TSS) must not exceed 87-52 g/m³ for more than 8-6 out of 12 consecutive monthly samples, or 98-xx g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(c) The concentration of Enterococci Escherichia coli (E. coli) must not exceed x-1,100 cfu/100 mL for more than 68 out of 12 consecutive monthly samples, or x cfu/100 mL in more than 2 out of 12 consecutive monthly samples;</p> <p>(d) The concentration of Faecal coliforms (FC) must not exceed xx cfu/100 mL for more than 6 out of 12 consecutive monthly samples, or xx cfu/100 mL in more than 2 out of 12 consecutive monthly samples; and</p> <p>(d)(e) The concentration of Ammoniacal Nitrogen (NH₄-N) must not exceed 36-15.6 g/m³ for more than 86 out of 12 consecutive monthly samples, or 40-xx g/m³ in more than 2 out of 12 consecutive monthly samples; and</p> <p>Advice Note: <i>Compliance will be demonstrated based on the samples required by Condition 12 [monitoring section]. The exceedance frequency allowed for the Treated Wastewater quality values identified above are based on monthly sampling over an annual rolling 12-month monitoring period of 1 July to 30 June each year in accordance with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2. If the frequency of sampling is more than monthly, the allowed numbers of annual exceedances will need to be amended to remain in line with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2.</i></p> <p>[Note: discharge standards need to be discussed and refined]</p>	<p>HBRC</p> <p>The approach taken for setting exceedance parameters is taken directly Table 13.2 of the referenced monitoring guidelines. This example table demonstrates a 10% discharger’s risk, which is very lenient. For example, only 4 of 12 annual samples need to achieve the target median value. This strongly favours the applicant over the environment. Preference is to stick with median and 90thile, i.e. 6 of 12 and 10 of 12 samples respectively (90th actually equates to 83rdile with rounding. When the target values are based on historical data for</p> <p>This condition is unaltered from the S92 discussions. Soluble carbonaceous (sc)BOD is unacceptable, as this has not been measured at the WWTP and is a significantly lower number than cBOD. S92 questions agreed that cBOD would be acceptable to the applicant.</p> <p>Comment at Numbers proposed by HBRC state “based on Based on limited median data provided by applicant to date”.</p> <p>These two values are copied from a COD values in the previous consent. COD and cBOD measurements are vastly different. These values need to be adjusted to reflect historical recorded cBOD values. The applicant has yet to demonstrate what these are when responding to S92 questions, and has not provided the historical data sets when requested.</p> <p>Comment at numbers changed to xx “Applicant to propose, and provide historical performance dataset to discuss.”</p> <p>There is no good reason to fix this to a defined annual period. In my opinion, it would make more sense to using a rolling 12-month period. That way, non-compliance would be detected in (close to) real time and timely actions could be taken to remedy the situation rather than potentially waiting for months before a breach is detected, reported and actioned.</p>	<p>There is no environmental reason for only applying these limits for discharges before filtration and UV has been installed.</p> <p>The number of samples that must meet the limits and the limits themselves need to be refined with HBRC and other experts.</p> <p>The change from <i>E. coli</i> to Enterococci and faecal coliforms limits is partly rejected by WDC. There is a long history of <i>E. coli</i> and Enterococci data, but no recent data for faecal coliforms. Consequently, there is no recent faecal coliform data upon which to base any limits.</p> <p>HBRC are correct that <i>E. coli</i> is not as relevant in this estuarine receiving environment but <i>E. coli</i> is appropriate for the future irrigation consents. For consistency of monitoring and in recognition of the reduction of discharges to the river over future years WDC would prefer to retain <i>E. coli</i>.</p> <p>Rolling 12-month periods is not acceptable because a cluster or two of high results can repeatedly trigger limit breaches over a series of 12-month rolling periods despite being caused by the same high results. It may be important to retain the note about compliance in the event that samples are collected more often than monthly.</p> <p>Nominated concentrations for discharge limits have been inserted by WDC.</p>	<p><i>more than monthly, the allowed numbers of annual exceedances will need to be amended to remain in line with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2.</i></p> <p>[Note: discharge standards need to be discussed and refined]</p>
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NUMBER	DRAFT CONDITION AS AT 13 MARCH 2020 – VERSION 16 – WITH SUBMITTER FEEDBACK	SUBMITTER COMMENTARY	WDC DISCUSSION	NEW NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
##	<p>After the commissioning of the new filtration and UV disinfection system (Conditions 40 and 41), the Consent Holder must ensure that the Treated Wastewater meets the following standards prior to discharge to the Wairoa River:</p> <p>(a) The concentration of Carbonaceous five-day Biochemical Oxygen Demand (cBOD₅) must not exceed 23 g/m³ in more than 6 out of 12 consecutive monthly samples, or XX g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(b) The concentration of Total Suspended Solids (TSS) must not exceed XX g/m³ for more than 6 out of 12 consecutive monthly samples, or XX g/m³ in more than 2 out of 12 consecutive monthly samples;</p> <p>(c) The concentration of Enterococci must not exceed XX cfu/100 mL for more than 6 out of 12 consecutive monthly samples, or XX cfu/100 mL in more than 2 out of 12 consecutive monthly samples; and</p> <p>(d) The concentration of Faecal coliforms (FC) must not exceed XX cfu/100 mL for more than 6 out of 12 consecutive monthly samples, or XX cfu/100 mL in more than 2 out of 12 consecutive monthly samples; and</p> <p>(e) The concentration of Ammoniacal Nitrogen (NH₄-N) must not exceed 15.3 g/m³ for more than 6 out of 12 consecutive monthly samples, or XX g/m³ in more than 2 out of 12 consecutive monthly samples.</p> <p><i>Advice Note: Compliance will be demonstrated based on the samples required by Condition 12 [monitoring section]. The exceedance frequency allowed for the Treated Wastewater quality values identified above are based on monthly sampling over an annual rolling 12-month monitoring period.</i></p>	<p>HBRC</p> <p>Applicant to propose values for all values marked with XX, and provide historical performance dataset to discuss.</p>	<p>WDC rejects the need for this insertion. There is no environmental reason for separate limits for discharges after UV has been installed. If it was previously causing less than minor adverse effects in the river, then there is no need to further restrict the discharge quality just because the treatment has improved its quality. It is also difficult to nominate new limits for each of the contaminants when the design, maximum flow rates, and performance capabilities of the future treatment systems are unknown.</p> <p>Any limits need to be based on expert advice from UV disinfection system suppliers and historic flow and effluent quality data.</p> <p>A trial will be conducted to scope out sizing of UV system and results of wastewater discharge standards to be confirmed. This will be completed by late November 2020.</p>		
	MONITORING				MONITORING
	General and Standards				General and Standards
25 12	<p>The Consent Holder must measure and record the daily Treated Wastewater volume discharged to the Wairoa River. The flow meter used to measure and record the Treated Wastewater volume must be calibrated to an accuracy of plus or minus 5%. The Treated Wastewater volume records must be transferred daily to the Council via telemetry in a format compatible with the Regional Council's telemetry system.</p>	<p>HBRC</p> <p>After talking with Jack the current practice to estimate volumes is based on storage. When will this meter be installed and has a brand/model been considered? If so please provide that information.</p>	<p>A meter will be installed. As part of reconfiguration of the treatment plant outlet (top of falling main) a new meter will be installed. There are some changes to be made at the ponds to accommodate the new UV system and a meter will be installed at this time. This work is separate to the river outfall works. The meter will be set up and allow for all discharges, including a potential discharge to land.</p> <p>The brand/model is not relevant for consenting purposes. It just needs to be installed and accurate.</p>	15	<p>The Consent Holder must measure and record the daily Treated Wastewater volume discharged to the Wairoa River as follows:</p> <p>(a) <u>Prior to the installation of the new outlet structure - the Consent Holder must calculate the daily discharge volume based on raw wastewater inflows pumped through the Fitzroy Street pump station, changes in storage levels in the WWTP's ponds, percentage of discharge valve opening, and duration of discharge.</u></p> <p>(b) <u>Following the commissioning of the new UV system a flow meter shall be installed in the discharge pipe after the outlet of the WWTP. The flow meter used to measure and record the Treated Wastewater volume must be calibrated to an accuracy of plus or minus 5%. The Treated Wastewater volume records must be transferred daily to the Council via telemetry in a format compatible with the Regional Council's telemetry system.</u></p>

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26 13	The Consent Holder must have the Treated Wastewater flow meter calibrated annually by an authorised and certified contractor which confirms that the flow meter is accurate to within +/- 5% or better. This calibration must be completed with the meter in-situ to ensure that the calibration takes into account any variability due to its location and installation. The calibration certificate must be provided to the Council by X Y each year commencing in X Y 20ZZ.		No feedback received. No change proposed.	16	The Consent Holder must have the Treated Wastewater flow meter calibrated annually by an authorised and certified contractor which confirms that the flow meter is accurate to within +/- 5% or better. This calibration must be completed with the meter in-situ to ensure that the calibration takes into account any variability due to its location and installation. The calibration certificate must be provided to the Council by X Y each year commencing in X Y 20ZZ.
##	<u>After the installation of the UV disinfection system (Conditions 40 and 41), the Consent Holder must measure and record the UV transmissivity of the wastewater after the filtration unit, and before the UV disinfection system measured hourly. The transmissivity meter used to measure and record the Treated Wastewater transmissivity must be calibrated to an accuracy of plus or minus 5%. The Treated Wastewater transmissivity records must be transferred monthly to the Council via telemetry in a format compatible with the Regional Council's telemetry system.</u>	HBRC Check need for telemetry for monthly Data?	Continuous records will be kept and provided to Council monthly with other monitoring data.	17	<u>After the installation of the UV disinfection system (Condition39), the Consent Holder must measure and record the UV transmissivity of the wastewater after the filtration unit, and before the UV disinfection system measured hourly. The transmissivity meter used to measure and record the Treated Wastewater transmissivity must be calibrated to an accuracy of plus or minus 5%. The Treated Wastewater transmissivity records must be transferred monthly to the Council Manager.</u>
27 14	The Consent Holder must establish and maintain an electronic system that allows tidal conditions to be assessed and recorded.	HBRC Is this necessary given MET service can provide this information?	This is necessary to enable programming of discharges and checks of compliance with tides each day. It also makes retrospective compliance reporting very rapid and simple. WDC already do this.	18	The Consent Holder must establish and maintain an electronic system that allows <u>daily tidal conditions cycles</u> to be assessed and recorded.
28 15	To assist with making decision in accordance with Conditions? and ?, the Consent Holder must develop a telemetry system to receive river flow data from the Wairoa at Marumaru and Waiau at Ardkeen flow gauging sites operated by the Council. If such data exchange cannot be established with the Council, then manual retrieval of the appropriate electronic data through alternative means may be necessary. Should this not be possible then flows measured at 9 am shall apply for the following 24 hour period.	HBRC River flows could change significantly over 24 hours so I don't think this is suitable. Flows should be measured at the Wairoa bridge?	HBRC's hydrologists have advised that river flows can't be measured below Marumaru and Ardkeen due to tidal influences. The time delay for water to travel from there to the coast should allow reasonable estimation of flows for the next period of discharges. River flows tend to rapidly increase and then slowly subside. Falcon Electrical and WDC staff will validate with HBRC whether WDC can utilise HBRC's river flow data via telemetry.	19	To assist with making decisions in accordance with Conditions? 7 and ? 8, the Consent Holder must develop a telemetry system to receive river flow data from the Wairoa at Marumaru and Waiau at Ardkeen flow gauging sites operated by the Council. If such data exchange cannot be established with the Council, then manual retrieval of the appropriate electronic data through alternative means may be necessary. Should this not be possible then <u>river flows measured at no earlier than 3 pm shall apply for the following overnight discharge period and, where relevant, river flows measured within 1 hour of 9 am shall apply for the following 24-hour daytime discharge period.</u>
29 16	The Consent Holder must ensure that all sampling equipment, including meters and field measurement devices, are maintained in good working order by suitably qualified persons in accordance with the manufacturer's instructions and industry best practice guidelines. Records of calibration shall be kept and made available to the Council upon request.		No feedback received. No change proposed.	20	The Consent Holder must ensure that all sampling equipment, including meters and field measurement devices, are maintained in good working order by suitably qualified persons in accordance with the manufacturer's instructions and industry best practice guidelines. Records of calibration shall be kept and made available to the Council upon request.
30 17	In respect of monitoring required by the Consents, the following apply:		No feedback received. No change proposed except to match definition changes.	21	In respect of monitoring required by the Consents, the following apply:

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	<p>(a) All monitoring and sampling techniques employed in respect of the conditions of the Resource Consents must be carried out by suitably experienced and qualified persons;</p> <p>(b) All analytical testing other than on-site measurements, undertaken in connection with these Resource Consents must be performed by a laboratory that is IANZ accredited for the analytical tests or any other method approved in advance in writing by the Council;</p> <p>(c) All water sample analyses must be undertaken in accordance with the methods detailed in the "Standard Methods For The Examination Of Water And Waste Water, 2017" 23rd edition by A.W.W.A., A.P.H.A. and W.E.F., or any other method approved in advance in writing by the Regulatory Manager; and</p> <p>(d) If any monitoring sites are identified as unsuitable, alternative monitoring sites must be identified and developed within a reasonable time after consultation with the Regulatory Manager and Planning Manager.</p>				<p>(a) All monitoring and sampling techniques employed in respect of the conditions of the Resource Consents must be carried out by suitably experienced and qualified persons;</p> <p>(b) All analytical testing other than on-site measurements, undertaken in connection with these Resource Consents must be performed by a laboratory that is IANZ accredited for the analytical tests or any other method approved in advance in writing by the Council <u>Manager</u>;</p> <p>(c) All water sample analyses must be undertaken in accordance with the methods detailed in the "Standard Methods For The Examination Of Water And Waste Water, 2017" 23rd edition by A.W.W.A., A.P.H.A. and W.E.F., or any other method approved in advance in writing by the <u>Regulatory Council Manager</u>; and</p> <p>(d) If any monitoring sites are identified as unsuitable, alternative monitoring sites must be identified and developed within a reasonable time after consultation with the <u>Regulatory Council Manager</u> and Planning Manager.</p>
31 18	The results of the monitoring undertaken in accordance with the conditions of this consent must be provided to the Council upon request. Copies of original laboratory analytical reports for all analyses shall also be made available upon request.	<p>HBRC</p> <p>Quarterly or monthly in any month where non-compliance with the condition occurs or may occur.</p>	Condition 48 requires WDC to notify HBRC of any breaches. WDC usually include the data with the notice but HBRC could ask for it anyway. These consents require a wide range of monitoring and some results have long analytical timeframes.	22	The results of the monitoring undertaken in accordance with the conditions of this consent must be provided to the Council upon request. Copies of original laboratory analytical reports for all analyses shall also be made available upon request.
	Chemistry				<u>Discharge Chemistry and Pathogens</u>
32 19	<p>From the commencement of this Consent, the Consent Holder must take samples of Treated Wastewater at the locations as shown on Plan 1 attached to and forming part of this Consent. Treated Wastewater is to be sampled once per month. The samples must be analysed for:</p> <p>(a) Soluble Carbonaceous five-day Biochemical Oxygen Demand (ScBOD₅) <u>mg/L</u>;</p> <p>(b) Chemical Oxygen Demand (COD) <u>mg/L</u>;</p> <p>(c) Total Suspended Solids (TSS) <u>mg/L</u>;</p> <p>(d) Total Nitrogen (TN) <u>mgN/L</u>;</p> <p>(e) Ammoniacal-Nitrogen (NH₄-N) <u>mgN/L</u>;</p> <p>(f) Nitrate Nitrogen (NO₃-N) <u>mgN/L</u>;</p> <p>(g) Nitrite Nitrogen (NO₂-N) <u>mgN/L</u>;</p> <p>(h) Total Phosphorus (TP) <u>mgP/L</u>;</p> <p>(i) Dissolved Reactive Phosphorus (DRP) <u>mgP/L</u>;</p> <p>(j) <u>Escherichia coli (E. coli) cfu/100mL</u>;</p>	<p>HBRC</p> <p>Applicant to provide plan</p> <p>Jack: If samples exceed the specified limits then resampling must be undertaken.</p> <p>Why no metals? If they are proposing to monitor the river for metals to measure impact of the discharge then metals (zinc/copper/arsenic/lead/chromium) should be included in the sampling.</p> <p>Nick: Nice to have [COD], but not necessary given the cBOD condition.</p>	<p>Metals are not included because they are present in low concentrations in the wastewater but can slowly accumulate in the receiving environment's sediments over long periods of repetitive discharges. There are no natural sources of metals so the discharges can be identified as the likely source of any variations in sediment metals beyond the local background concentrations of metals.</p> <p>Faecal coliforms and COD are not needed.</p>	23	<p>From the commencement of this Consent, the Consent Holder must take samples of Treated Wastewater at the locations as shown on Plan 1 attached to and forming part of this Consent. Treated Wastewater is to be sampled once per month <u>from the WWTP's main oxidation pond outlet until the UV treatment system is installed, and then from a dedicated sampling port between the UV treatment system and the outlet thereafter</u>. The samples must be analysed for:</p> <p>(a) Soluble Carbonaceous five-day Biochemical Oxygen Demand (ScBOD₅) <u>mg/L</u>;</p> <p>Chemical Oxygen Demand (COD), mg/L;</p> <p>(b) Total Suspended Solids (TSS) <u>mg/L</u>;</p> <p>(c) Total Nitrogen (TN) <u>mgN/L</u>;</p> <p>(d) Ammoniacal-Nitrogen (NH₄-N) <u>mgN/L</u>;</p> <p>(e) Nitrate Nitrogen (NO₃-N) <u>mgN/L</u>;</p> <p>(f) Nitrite Nitrogen (NO₂-N) <u>mgN/L</u>;</p>

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	<p>(k) <u>Enterococci, cfu/100mL</u></p> <p>(l) <u>Faecal coliforms (FC), cfu/100mL;</u></p> <p>(m) <u>Dissolved oxygen (DO) (field measurement), mgO/L;</u></p> <p>(n) <u>pH (field measurement).</u></p>				<p>(g) Total Phosphorus (TP), <u>mgP/L;</u></p> <p>(h) Dissolved Reactive Phosphorus (DRP), <u>mgP/L;</u></p> <p>(i) <u>Escherichia coli (E. coli), cfu/100mL;</u></p> <p>(j) <u>Enterococci, cfu/100mL</u></p> <p>(k) Dissolved oxygen (DO) (field measurement), <u>mgO/L;</u></p> <p>(l) pH (field measurement).</p>
33 20	Prior to the discharge of Treated Wastewater, the Consent Holder must install and maintain a sampling port in the pipeline between the WWTP outlet (after <u>proposed location of</u> UV treatment) and the Wairoa River discharge.	HBRC Malcolm: Does this exist now? Discharge is already occurring. Is this required once UV treatment is in place? Where are condition 11 parameters to be measured?	Sampling is currently a grab sample from the WWTP outlet well. A port will be needed after the UV system has been installed. This requirement has been combined with the condition above.	24	Prior to the discharge of Treated Wastewater, the Consent Holder must install and maintain a sampling port in the pipeline between the WWTP outlet (after UV treatment) and the Wairoa River discharge.
	In-River Monitoring				In-River Monitoring
34 21	<p>Within three months of the commencement date of this consent, the Consent Holder must submit to the Council an In-river Monitoring Plan. The In-river Monitoring Plan shall include benthic surveys and water quality monitoring at a minimum of five monitoring sites, sampling for but not limited to:</p> <p>(a) Sediment particle grain size analysis;</p> <p>(b) Heavy heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn);</p> <p>(c) Organic content/matter (TVS), <u>organic carbon</u>;</p> <p>(d) Nutrients (Total Recoverable P, DRP, Total N, SIN, NH₄-N);</p> <p>(e) Pathogens (E.coli, <u>enterococci</u>);</p> <p>(f) Faecal source tracking; and</p> <p><u>(g)</u> Infauna.</p> <p>(g)<u>(h) Broadscale habitat map</u></p> <p>The plan must also detail how sampling corresponds to river and tidal conditions and <u>cultural monitoring sites</u> the reasons for the proposed monitoring regime. <u>Work with with a tangata kaitiaki from the tangata whenua group will be required to develop monitoring plan, and will also be included in the monitoring work.</u> -The frequency of sampling (benthic and water quality) shall be stipulated. <u>The plan shall also detail the multivariate analyses to be used in assessing differences in infaunal communities, and also compare all relevant background levels from Hawke's Bay to results gathered.</u></p> <p>Advice Note: <i>The In-river Monitoring Plan may want to consider plans being prepared by others, including the Council and Iwi, so as to provide joint opportunities to share information and provide for consistent collection, analysis and interpretation methodologies.</i></p>	SS	<p>WDC notes that:</p> <p>(b) metals are only relevant to sediment.</p> <p>(c) ok with addition of organic carbon</p> <p>(e) ok with addition of enterococci.</p> <p>(h) The use of broad scale habitat mapping is suggested elsewhere as it relates to more than just the discharge.</p> <p>The addition of the cultural element is best placed in the Cultural Monitoring conditions (conditions 27 to 28). What is done and how it is done can be set out in the monitoring protocols that are to be developed, and can cover all the aspects covered here. This includes other activities/work, such as the multi-variant analysis referred to.</p> <p>As a general comment, there may be limited benefit sampling in the water column as there will be no</p>	24	<p>Within three months of the commencement date of this consent, the Consent Holder must submit to the Council an In-river Monitoring Plan <u>for certification</u>. The In-river Monitoring Plan shall include benthic surveys and water quality monitoring at a minimum of five monitoring sites, sampling for but not limited to:</p> <p>(a) Sediment particle grain size analysis <u>(by weight)</u>;</p> <p>(b) <u>Sediment</u> Heavy heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn);</p> <p>(c) <u>Sediment</u> Organic content/matter (TVS) and organic carbon;</p> <p>(d) <u>Sediment n</u> Nutrients (Total Recoverable P, DRP, Total N)</p> <p>(e) <u>River water nutrients</u> (DRP, SIN, NH₄-N);</p> <p>(f) <u>Sediment P</u> pathogens (E. coli, <u>Enterococci</u>);</p> <p>(g) Faecal source tracking; and</p> <p>(h) Infauna</p> <p>The plan must also detail how sampling corresponds to river and tidal conditions and the reasons for the proposed monitoring regime. The frequency of sampling (benthic and water quality) shall be stipulated.</p> <p>Advice Note: <i>The In-river Monitoring Plan may want to consider plans being prepared by others, including the Council and Iwi, so as to provide joint opportunities to share information and provide for consistent collection, analysis and interpretation methodologies.</i></p>

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			discharge occurring at the time of sampling.		
34 21	<p>Within three months of the commencement date of this consent, the Consent Holder must submit to the Council an In-river Monitoring Plan. The In-river Monitoring Plan shall include benthic surveys and water quality monitoring at a minimum of five monitoring sites, sampling for but not limited to:</p> <ul style="list-style-type: none"> (a) Sediment particle grain size analysis; (b) Sediment concentrations of heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn); (c) Sediment concentrations of organic Organic content/matter (TVS); (d) River water quality (Total Recoverable P, DRP, Total N, NNN, Ammoniacal-N (NH₃-NH₄ -N), temperature, dissolved oxygen, pH, chlorophyll <i>a</i>, enterococci and faecal coliforms); <p>(e) Nutrients (Total Recoverable P, DRP, Total N, SIN, NH₄-N); (f)(e) Pathogens (E.coli); (g)(f) Faecal source tracking; and (h)(g) Infauna. (i)(h) The presence and extent of nuisance macroalgae.</p> <p>The plan must also detail how sampling corresponds to river and tidal conditions and the reasons for the proposed monitoring regime. The frequency of sampling (benthic and water quality) shall be stipulated.</p> <p>Advice Note: <i>The In-river Monitoring Plan may want to consider plans being prepared by others, including the Council and Iwi, so as to provide joint opportunities to share information and provide for consistent collection, analysis and interpretation methodologies.</i></p>	<p>HBRC</p> <p>Jack: The monitoring plan should require certification by Council or they can submit whatever they like. The certification system and wording used in the port consents (AUTH-123841-03) works really well in this regard</p> <p>Shane: These parameters [in (d)] cover off key stressors (nutrients and appropriate microbiological indicators for marine waters), plus indicators of environmental responses to stressors (Chl <i>a</i>, pH and DO). Temperature is included because it is a fundamental indicator of water quality and can be collected with a field instrument at little (if any) additional cost. Same goes for pH and DO.</p> <p>See earlier comment on the use of E. coli. Enterococci and faecal coliforms are probably more appropriate for the River estuary. E. coli may be appropriate for upstream freshwater sites.</p>	<p>Agree that this Plan needs to be certified by Council before implementation.</p> <p>There is only value in river water quality sampling if they are collected while the discharge is occurring (which will generally be at night time or at times of high flow and sampling would not be practical or safe). Dilution will be rapid and there are health & safety concerns with this.</p> <p>Sediment samples will be more difficult to collect in the deep channel around the relocated outfall but day-time low tide should be achievable.</p> <p>HBRC's scientists have noted that the Wairoa River estuary is not prone to nuisance macroalgae accumulations due to the low nutrients and high silt concentrations. Therefore, monitoring of a range of nutrient and biological indicators in the water column would be of limited or no value. Also, there will be no discharge at the time of sampling as noted above. However, some parameters could be sampled in the sediment, such as E.coli and Enterococci.</p>		
35 22	<p>Within 12 months of the commencement date of this consent, the Consent Holder must have commenced monitoring in accordance with the In-river Monitoring Plan required by Condition 21</p>	<p>What is monitored for the 1st 12 mths?</p>	<p>There will be no in-river monitoring initially until a plan has been approved.</p> <p>WDC have noted that the ability to do monitoring is subject to HBRC approving plan.</p>	25	<p>Within 12 months of the commencement date of this consent, the Consent Holder must have commenced monitoring in accordance with the In-river Monitoring Plan required by Condition 21 24.</p>

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			An additional condition has been developed to describe the approval process for plans.		
			WDC have drafted a new condition that sets out a generic process for approving plans. HBRC had suggested a single generic approval condition.	26	<p><u>Within two months of receiving any Plan requiring certification under the conditions of this consent, the Council must advise, in writing, the Consent Holder whether or not they have certified the Plan.</u></p> <p><u>If the Council refuses to certify the Plan it must advise the Consent Holder why this view is held. The Consent Holder shall resubmit a revised Plan to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the Plan.</u></p> <p><u>If the Council certifies the Plan the Consent Holder shall commence what is set out in the Plan as required by conditions of consent or as soon as practicable where no timeframe is specified.</u></p>
	Cultural Monitoring				Cultural Monitoring
35 23	<p>Within two years of the commencement of this consent, the Consent Holder must invite <u>and resource a panel-body representing tangata whenua</u> to undertake Cultural Health Index Monitoring<u>Mauri monitoring</u> according to their respective tikanga. If the engagement is accepted, the Consent Holder must commission the <u>body representing tangata whenua at panel</u> or subpanel (as advised) to undertake Mauri Cultural Health Index Monitoring in compliance with the Cultural Health Index Monitoring Protocol prepared in accordance with Condition 24.</p> <p>The Consent Holder shall take guidance from the trustees of Tatau Tatau o Te Wairoa <u>and Taiwhenua</u> in inviting the panel members.</p>	SS	<p>Resourcing for engagement is covered elsewhere.</p> <p>The term panel has been replaced with [body representing Maori interests,</p> <p>Mauri monitoring is very specific and could potentially limit the methods used and reported. WDC consider more flexibility is provided to all parties using a generic term of Cultural Health Index Monitoring.</p>	27	<p>Within two years of the commencement of this consent, the Consent Holder must invite a panel<u>[body representing Maori interests]</u> to undertake Cultural Health Index Monitoring according to their respective tikanga. If the engagement is accepted, the Consent Holder must commission that <u>[body representing Maori interests]panel</u> or subpanel<u>nominees</u> (as advised) to undertake Cultural Health Index Monitoring in compliance with the Cultural Health Index Monitoring Protocol prepared in accordance with Condition 24 <u>28</u>.</p> <p>The Consent Holder shall take guidance from the trustees of Tatau Tatau o Te Wairoa in inviting the <u>[body representing Maori interests]panel members</u>.</p>
36 24	<p>If the engagement is accepted to undertake Cultural Health Index<u>Mauri</u> Monitoring as set out in Conditions 23, the Consent Holder must commission the panel members to prepare a Cultural Health Index Monitoring<u>Mauri</u> Protocol that as a minimum, must:</p> <p>(a) describe the relationship of tangata whenua to the discharge area and the sites of interest in or near the locations to which these Permits apply;</p> <p>(b) describe the tikanga relevant to the proposed cultural monitoring (including kaitiakitanga, mauri of awa, whenua, tangata, whanaungatanga and te ha tawhirimatia), the activities, and the site(s);</p> <p>(c) identify and map (with map references) the site(s) to be monitored;</p> <p>(d) set out the frequency of monitoring;</p> <p>(e) describe the procedures required to access the application site for the monitoring (in particular health and safety requirements);</p>	SS	<p>As noted above, Mauri monitoring is very specific and could potentially limit the methods used and reported. WDC consider more flexibility is provided to all parties using a generic term of Cultural Health Index Monitoring.</p>	28	<p>If the engagement is accepted to undertake Cultural Health Index Monitoring as set out in Conditions 23 <u>27</u>, the Consent Holder must commission the panel members<u>[body representing Maori interests]</u> to prepare a Cultural Health Index Monitoring Protocol that as a minimum, must:</p> <p>(a) describe the relationship of tangata whenua to the discharge area and the sites of interest in or near the locations to which these Permits apply;</p> <p>(b) describe the tikanga relevant to the proposed cultural monitoring (including kaitiakitanga, mauri of awa, whenua, tangata, whanaungatanga and te ha tawhirimatia), the activities, and the site(s);</p> <p>(c) identify and map (with map references) the site(s) to be monitored;</p> <p>(d) set out the frequency of monitoring;</p>

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	<p>(f) identify the parameters and methods used for the monitoring; and</p> <p>(g) set out the matters to be included in the <u>Cultural Health Index/Mauri Compass</u> Monitoring Report and the frequency of the reporting obligations.</p> <p>(h) Set out the procedures for amendments,</p> <p>(i) set out the procedure for replacing panel members or re-establishing the panel.</p>				<p>(e) describe the procedures required to access the application site for the monitoring (in particular health and safety requirements);</p> <p>(f) identify the parameters and methods used for the monitoring <u>and assessments of effects on cultural health</u>; and</p> <p>(g) set out the matters to be included in the Cultural Health Index Monitoring Report and the frequency of the reporting obligations.</p> <p>(h) Set out the procedures for amendments <u>to the Cultural Health Index Monitoring Protocols</u>,</p> <p>(i) set out the procedure for replacing panel <u>members of the cultural health assessment panel</u> or re-establishing the <u>cultural health assessment panel</u>.</p> <p><u>Advice Note: there are multiple tools for assessing cultural health, including the Mauri Compass. The selection of the methodology is up to the [body representing Maori interests].</u></p>
36 24	<p>If the engagement is accepted to undertake Cultural Health Index Monitoring as set out in Conditions 23, the Consent Holder must commission the panel members to prepare a Cultural Health Index Monitoring Protocol that as a minimum, must:</p> <p>(j) describe the relationship of tangata whenua to the discharge area and the sites of interest in or near the locations to which these Permits apply;</p> <p>(k) describe the tikanga relevant to the proposed cultural monitoring (including kaitiakitanga, mauri of awa, whenua, tangata, whanaungatanga and te ha tawhirimatia), the activities, and the site(s);</p> <p>(l) identify and map (with map references) the site(s) to be monitored;</p> <p>(m) set out the frequency of monitoring;</p> <p>(n) describe the procedures required to access the application site for the monitoring (in particular health and safety requirements);</p> <p>(o) identify the parameters and methods used for the monitoring; and</p> <p>(p) set out the matters to be included in the Cultural Health Index Monitoring Report and the frequency of the reporting obligations.</p> <p>(q) Set out the procedures for amendments,</p> <p>set out the procedure for replacing panel members or re-establishing the panel.</p>	<p>HBRC</p> <p>Malcolm: What if it [the engagement offer] is not accepted? We need to work to make sure it will be but what if ...?</p> <p>Jack Blunden's comment - I would think that HBRC would want to see and certify this plan as well. As you said not sure who we could get to review it. Especially as it is very locally driven.</p> <p>Malcolm: Amendments of what? The monitoring protocol or to the conditions of consent or the way the activity is operated and where waste is discharged?</p>	<p>If the engagement is not accepted by tangata whenua then they have lost an opportunity to assist WDC with understanding changes in cultural effects of the WWTP's discharges. There is no time limit for tangata whenua to take up this opportunity so they could become active some years after these consents commence.</p> <p>It is not appropriate for another party to review and certify this Protocol, as this would offend the mana of the Protocol's authors.</p>		
37 25	<p>The Consent Holder must provide a copy of the <u>Cultural Health Index/Mauri Compass</u> Monitoring Protocol, or any amended version to the Council within 1 month of receiving it.</p>	<p>SS</p> <p>Please specify who Council will use to review mauri monitoring report</p>	<p>Reference to Mauri Compass. Should avoid as is specific tool. WDC want to keep it more generic as there could be replacements.</p> <p>Why is a review needed? Council will not be doing this work. If Panel is commissioned then surely that manages bias.</p>	29	<p>The Consent Holder must provide a copy of the Cultural Health Index Monitoring Protocol, or any amended version, <u>and any subsequent Cultural Health Monitoring Reports</u> to the Council <u>Manager</u> within 1 month of receiving it.</p> <p><u>Advice Note: These documents are the intellectual property of the Maori cultural health experts and are not subject to certification or review by the Consent Holder or Council.</u></p>
37 25	<p>The Consent Holder must provide a copy of the Cultural Health Index Monitoring Protocol, or any amended version to the Council within 1 month of receiving it.</p>	<p>HBRC</p> <p>Check that the CHI Monitoring report is to be provided. Could say here that it is to be provided within 1 month of receiving it. Followed by a document providing a response to</p>	<p>WDC can't force iwi to prepare a Protocol or reports. WDC can't be in breach of any consent conditions due to lack of action by a third party. It is reasonable to require the Protocols and reports to be provided to HBRC within 1</p>		

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		any recommendations or observations.	month of receipt if and when that occurs.		
	DISCHARGE STRUCTURE				DISCHARGE STRUCTURES
					Pump Station Overflows
			WDC have added a condition because pump station overflows weren't specifically mentioned in earlier versions of conditions, yet the consents seek to authorise them including future maintenance and modifications.	30	<u>The existing pump station discharge structures shown on Plan ? shall be maintained or replaced in substantially the same locations and dimensions as the existing structures.</u>
	Location				<u>Location and Timing of Construction</u>
9 26	The discharge structure shall be retained within the area shown in Plan ? .		WDC is now offering certainty of installing a new outfall in accordance with a specific design. The timing of installation will be dependent on not only the approval of this consent, but also approval of any necessary concessions. In the meantime the existing structure will have to be used.	31	The discharge structure shall be retained within the area shown in Plan ?. <u>The existing discharge structure, including piping, shall be replaced with a new outfall structure constructed in accordance with Condition ? 32 and Plan ?, within 18 months of obtaining any necessary concessions. After construction all wastewater discharged to the Wairoa River from the WWTP shall be conveyed to the new outfall.</u> <u>The existing discharge structure shall be used for this purpose in the interim.</u>
			This new condition offered by WDC sets out the requirements to be met during installation of the new outfall structure.	32	<u>Installation of the new outfall structure shall comply with the following:</u> (a) <u>The Consent Holder shall give the Council Manager at least two working days' notice of the intention to commence works and shall advise the Council Manager of having finished the works immediately following their completion.</u> (b) <u>The Consent Holder shall take all practical measures to limit the amount of sediment and prevent contaminants from entering the waterbody during the works. Such measures include, but are not limited to:</u> i <u>Any surplus soil, cleared vegetation, excavated trench material or debris shall be deposited at least 20 m from any waterbody or deposited or contained in a manner to reasonably prevent the transportation or deposition of disturbed matter into any waterbody.</u> ii <u>The wash water from containers and tools shall not be discharged into any waterbody and the washing of equipment shall not occur in any waterbody.</u>

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					<ul style="list-style-type: none"> iii <u>As far as practicable, all machinery work in the riverbed shall be undertaken during low river flow conditions and from the banks of the river or a craft rather than in the river.</u> iv <u>Refuelling and carrying out machinery maintenance at least 10 m inland from MHWS (Mean High Water Springs).</u> v <u>The use of silt fences and other erosion control methods shall be in accordance with the Council 2009: <i>Guidelines for Waterways: Erosion and Sediment Control Guidelines</i>.</u> (c) <u>The Consent Holder shall ensure that at the completion of the works, any newly established surfaces and any grassed slopes or vegetated areas that were cleared or damaged as a result of the activity, are revegetated in order to prevent sediment from entering the waterbody.</u> (d) <u>The design and installation of the structure shall be such that it does not cause any long-term erosion of the bed or banks of the waterbody.</u> (e) <u>To ensure worksite spills are managed appropriately, the consent holder shall produce a Spill Management Plan (SMP) appropriate for the activities being undertaken on site. The SMP must;</u> <ul style="list-style-type: none"> i <u>include procedures for preventing contaminants such as hydrocarbons or chemicals entering any waterbody in the event of a spill;</u> ii <u>be prepared by a suitably qualified person;</u> iii <u>be provided to the Council prior to commencement of the works.</u> <u>The consent holder and any contractors engaged to undertake work on their behalf shall abide by the SMP and a copy of this SMP must be present on site at all times while the work is being undertaken.</u> (f) <u>The Consent Holder shall check, clean and dry machinery used in the bed of the waterbody to limit the spread of aquatic pests.</u> (g) <u>Any wet concrete cast on site shall be fully contained during casting and, where possible, cast in a dry work area.</u> (h) <u>No concrete or excess construction materials shall be dumped into the bed of any waterbody.</u> (i) <u>The Consent Holder shall use methods and materials non-toxic to aquatic life, except where it is necessary and appropriate to use marine grade construction materials, and limit disturbance of the seabed to the greatest extent smallest practicable area.</u> (j) <u>In the event of any archaeological site or waahi tapu being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease. The Consent Holder shall contact the Council Manager and the [body representing Maori]. The Consent Holder shall then consult with the relevant local hapu or marae and Heritage New Zealand Pouhere Taonga, and shall not recommence works in the area</u>

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					<p>of the discovery until the relevant Heritage New Zealand Pouhere Taonga and tangata whenua approvals to damage, destroy or modify such sites have been obtained.</p> <p>(k) <u>The Consent Holder shall ensure that any contractors engaged to undertake work authorised by this consent abide by the conditions of this consent. The person responsible for the work on site shall be familiar with the consent conditions and a copy of this consent shall be present on site at all times while the work is being undertaken.</u></p>
	Modification	<p>HBRC</p> <p>Given the structure now proposed is new wording through conditions 27 to 32 will need to be included to reflect this</p>	<p>WDC agrees and wording has been proposed. However, there still needs to be provision for future modifications and relocations of the new pipe (if needed) to avoid the inability that exists to modify the current outfall structure without having to embark on another separate consenting process.</p>		Modification
10 27	<p>In the event of any modification, extension or relocation of the discharge structure, the Consent Holder must provide a Structure Design Report to the Council for certification. The design report shall (but is not limited to):</p> <p>(a) Be prepared by suitably qualified and experienced, independent expert/s,</p> <p>(b) <u>Detail why changes are required,</u></p> <p>(b)(c) <u>Detail cost benefit analysis of not doing works and instead fast tracking a discharge to land system this report should be done by an independent expert not involved with construction of the proposed modifications.</u></p> <p>(c)(d) <u>Include plans and supporting explanation for the proposed works,</u></p> <p>(d)(e) <u>Outline solutions regarding navigational hazards,</u></p> <p>(e)(f) <u>Include a Construction Management Plan,</u></p> <p>(f)(g) <u>Include details of the construction timetable.</u></p>	SS	<p>Submitters identified the need for a cost benefit analysis before committing to the construction of a new outfall, with an evaluation of the appropriateness and need when compared to land application alternatives. WDC has adopted this request and included in the proposed modifications (b).</p> <p>WDC requests the ability, should it be needed, to make modifications at some stage in the future. As has happened with the existing outfall, the riverbed has shifted and the current consent conditions do not allow modifications.</p> <p>This condition for the new outfall provides an opportunity to make modifications at some stage in the future, subject to the necessary approvals of plans and methodology, should the conditions in the river change or the outfall is not functioning as initially designed.</p>	33	<p>In the event of any <u>proposed</u> modification, extension or relocation of the discharge structure, the Consent Holder must provide a Structure Design Report to the Council <u>Manager</u> for certification <u>prior to any works being undertaken</u>. The design report shall (but is not limited to):</p> <p>(a) Be prepared by suitably qualified and experienced, independent expert/s,</p> <p>(b) Detail why changes are required, <u>including details and a cost-benefit analysis of the alternatives considered, with particular regard to whether more rapid implementation of land discharge and storage systems may be a better environmental and economical solution,</u></p> <p>(c) <u>Ensure that the discharge structure, or any portion thereof, is retained within the area shown in Plan ?.</u></p> <p>(d) Include plans and supporting explanation for the proposed works, <u>including details on the extent and nature of seabed disturbance, and how any adverse environmental effects are to be minimised,</u></p> <p>(e) Outline solutions regarding navigational hazards,</p> <p>(f) Include a Construction Management Plan,</p> <p>(g) Include details of the construction timetable</p> <p>(h) <u>Include specification of appropriate marine grade construction materials, design standards to be met and expected service life of materials.</u></p>

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			To assist with any possible requests for modifications, changes should they be needed should only be undertaken within the area identified in the application. This is reflected in (c).		
10 27	<p>In the event of any modification, extension or relocation of the discharge structure, the Consent Holder must provide an <u>updated</u> Structure Design Report to the Council for certification. The design report shall (but is not limited to):</p> <p>(a) Be prepared by suitably qualified and experienced, independent expert/s,</p> <p>(b) Detail why changes are required, <u>including details of the alternatives considered,</u></p> <p>(c) Include plans and supporting explanation for the proposed works, <u>including details on the extent and nature of seabed disturbance, and how any adverse environmental effects are to be minimised,</u></p> <p>(d) Outline solutions regarding navigational hazards,</p> <p>(e) Include a Construction Management Plan,</p> <p><u>(f) Include details of the construction timetable</u></p> <p><u>(g) Specification of appropriate marine grade construction materials, design standards met and expected service life of materials.</u></p> <p><u>(h) Include operation and maintenance considerations, including operation during both open and closed river mouth conditions.</u></p> <p><u>(f)(i) Include risk register for design, construction, operation and maintenance.</u></p>	<p>HBRC</p> <p>Jack: [certification] prior to any works being undertaken</p> <p>Tania: Addition of g - Peter Harte's recommendation refer to e2 environmental memo</p>	<p>WDC notes that the comments by HBRC may relate to the proposed strategy that has change, with a definite structure and location now being defined, with flexibility to monitor at a later stage if needed.</p> <p>It is hoped that HBRC will now consider the appropriateness of this two stage process, particularly the ability to maintain future flexibility.</p> <p>Reject "updated" as this will need to apply to all future modifications, not just the initial new outfall.</p> <p>While there may be some clarity with the proposed changes, HBRC may have more comments. However, WDC are happy to incorporate some of the suggested changes (at this stage) except (h) and (i) – not sure of the relevance of these for this stage in the process of approving future changes.</p>		
11 28	<p>Within two months of receiving the Structure Design Report, the Council must advise the consent holder in writing whether or not they have certified the Structure Design Report. If the Council refuses to certify the Structure Design Report it must advise the consent holder why this view is held. The consent holder shall resubmit a revised detailed design to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the initial detailed design.</p>	<p>HBRC</p> <p>Shane: This must be getting close to/going beyond the bounds of matters suitable for Managers approval. I am particularly concerned about the lack of information provided on seabed values and disturbance.</p> <p>Malcolm: Then they need to satisfy us now that the modification can</p>	<p>The Structure Design Report scope now includes seabed matters.</p> <p>This Condition and 29 have been combined into a new generic certification Condition as requested by HBRC. See new Condition 26.</p>		<p>Within two months of receiving the Structure Design Report, the Council must advise the consent holder in writing whether or not they have certified the Structure Design Report. If the Council refuses to certify the Structure Design Report it must advise the consent holder why this view is held. The consent holder shall resubmit a revised detailed design to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the initial detailed design.</p>

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		occur within the area designated in condition 26 Plan (which we could modify now if too large or extending into something sensitive) without adverse effects on seabed values and disturbance			
12 29	Following certification of the Structure Design Report, the consent holder can commence modifications in accordance with consent Condition 30 [condition below].	HBRC Jack: For any certification required can one consent condition capture this to avoid repetition.	WDC agree. See new Condition 26.		Following certification of the Structure Design Report, the consent holder can commence modifications in accordance with consent Condition 30 [condition below].
					<u>Maintenance of Discharge Structures</u>
13 30	<p>Any modifications to the outlet structure as detailed in the Council certified Structure Design Report, must comply with the following:</p> <p>(a) The Consent Holder shall give the Council (Manager Compliance) at least two working days' notice of the intention to commence the works, and shall advise the Council of having finished the works immediately following their completion.</p> <p>(b) The Consent Holder shall take all practical measures to limit the amount of sediment and prevent contaminants from entering the waterbody during the construction works. Such measures include, but are not limited to:</p> <ul style="list-style-type: none"> i Any surplus soil, cleared vegetation or debris, shall be deposited at least 20 m from any waterbody or deposited or contained in a manner to reasonably prevent the transportation or deposition of disturbed matter into any waterbody. ii The wash water from containers and tools shall not be discharged into any waterbody and the washing of equipment shall not occur in any waterbody. iii As far as practicable, all machinery work shall be undertaken from the banks of the waterbody rather than in the waterbody. iv Refuelling and carrying out machinery maintenance away from waterbody. v The use of silt fences and other erosion control methods shall be in accordance with the Council 2009: <i>Guidelines for Waterways: Erosion and Sediment Control Guidelines</i>. <p>(c) The Consent Holder shall ensure that at the completion of the works, any newly established surfaces and any grassed slopes or vegetated areas that were cleared or damaged as a result of the activity, are revegetated in order to prevent sediment from entering the waterbody.</p> <p>(d) The design and installation of the works shall be such that it does not cause any long-term erosion of the bed or banks of the waterbody.</p>	SS	<p>WDC suggest that any maintenance should be undertaken using practices consistent with that adopted during installation of the new outfall.</p> <p>A number of the HBRC comments have been incorporated into the condition for installing the new outfall.</p>	34	<p>Any <u>maintenance and associated disturbance of the riverbed or seabed undertaken to ensure the stability and proper functioning of the outlet structure or pump station discharge structures shall</u> modifications to the outlet structure as detailed in the Council certified Structure Design Report, must comply with the requirements set out in Condition 32 (new outfall), following:</p> <p>(c) The Consent Holder shall give the Council (Manager Compliance) at least two working days' notice of the intention to commence the works, and shall advise the Council of having finished the works immediately following their completion.</p> <p>(d) The Consent Holder shall take all practical measures to limit the amount of sediment and prevent contaminants from entering the waterbody during the construction works. Such measures include, but are not limited to:</p> <ul style="list-style-type: none"> vi Any surplus soil, cleared vegetation or debris, shall be deposited at least 20 m from any waterbody or deposited or contained in a manner to reasonably prevent the transportation or deposition of disturbed matter into any waterbody. vii The wash water from containers and tools shall not be discharged into any waterbody and the washing of equipment shall not occur in any waterbody. viii As far as practicable, all machinery work shall be undertaken from the banks of the waterbody rather than in the waterbody. ix Refuelling and carrying out machinery maintenance away from waterbody.

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	<p>(e) To ensure worksite spills are managed appropriately, the consent holder shall produce a Spill Management Plan (SMP) appropriate for the activities being undertaken on site. The SMP must;</p> <ul style="list-style-type: none"> i include procedures for preventing contaminants such as hydrocarbons or chemicals entering any waterbody in the event of a spill; ii be prepared by a suitably qualified person; iii be provided to the Council prior to commencement of the works. <p>The consent holder and any contractors engaged to undertake work on their behalf shall abide by the SMP and a copy of this SMP must be present on site at all times while the work is being undertaken.</p> <p>(f) The Consent Holder shall check, clean and dry machinery used in the bed of the waterbody to limit the spread of aquatic pests.</p> <p>(g) Any wet concrete cast on site shall be fully contained during casting and cast in a dry work area.</p> <p>(h) No concrete shall be dumped into bed of any waterbody.</p> <p>(i) The consent holder shall construct the structures using methods and materials non-toxic to aquatic life.</p> <p>(j) In the event of any archaeological site or waahi tapu being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease. The consent holder shall contact the Council (Manager Compliance) to obtain contact details of the relevant tangata whenua <u>the body representing tangata whenua</u>. The Consent Holder shall then consult with the relevant local hapu or marae and the Heritage New Zealand Pouhere Taonga, and shall not recommence works in the area of the discovery until the relevant Heritage New Zealand Pouhere Taonga and tangata whenua approvals to damage, destroy or modify such sites have been obtained.</p> <p>(k) The Consent Holder shall ensure that any contractors engaged to undertake work authorised by this consent abide by the conditions of this consent. The person responsible for the work on site shall be familiar with the consent conditions and a copy of this consent shall be present on site at all times while the work is being undertaken.</p>				<p>x—The use of silt fences and other erosion control methods shall be in accordance with the Council 2009: Guidelines for Waterways: Erosion and Sediment Control Guidelines.</p> <p>(f)—The Consent Holder shall ensure that at the completion of the works, any newly established surfaces and any grassed slopes or vegetated areas that were cleared or damaged as a result of the activity, are revegetated in order to prevent sediment from entering the waterbody.</p> <p>(g)—The design and installation of the works shall be such that it does not cause any long term erosion of the bed or banks of the waterbody.</p> <p>(h)—To ensure worksite spills are managed appropriately, the consent holder shall produce a Spill Management Plan (SMP) appropriate for the activities being undertaken on site. The SMP must;</p> <ul style="list-style-type: none"> iv—include procedures for preventing contaminants such as hydrocarbons or chemicals entering any waterbody in the event of a spill; v—be prepared by a suitably qualified person; vi—be provided to the Council prior to commencement of the works. <p>The consent holder and any contractors engaged to undertake work on their behalf shall abide by the SMP and a copy of this SMP must be present on site at all times while the work is being undertaken.</p> <p>(l)—The Consent Holder shall check, clean and dry machinery used in the bed of the waterbody to limit the spread of aquatic pests.</p> <p>(m)—Any wet concrete cast on site shall be fully contained during casting and cast in a dry work area.</p> <p>(n)—No concrete shall be dumped into bed of any waterbody.</p> <p>(o)—The consent holder shall construct the structures using methods and materials non-toxic to aquatic life.</p> <p>(p)—In the event of any archaeological site or waahi tapu being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease. The consent holder shall contact the body representing tangata whenua. The Consent Holder shall then consult with the relevant local hapu or marae and the Heritage New Zealand Pouhere Taonga, and shall not recommence works in the area of the discovery until the relevant Heritage New Zealand Pouhere Taonga and tangata whenua approvals to damage, destroy or modify such sites have been obtained.</p> <p>(g)—The Consent Holder shall ensure that any contractors engaged to undertake work authorised by this consent abide by the conditions of this consent. The person responsible for the work on site shall be</p>
	<p>Any modifications to the outlet structure as detailed in the Council certified Structure Design Report, must comply with the following:</p> <p>(a) The Consent Holder shall give the Council (Manager Compliance) at least two working days' notice of the intention to commence the works, and shall advise the Council of having finished the works immediately following their completion.</p> <p>(b) The Consent Holder shall take all practical measures to limit the amount of sediment and prevent contaminants from entering the waterbody during the construction works. Such measures include, but are not limited to:</p> <ul style="list-style-type: none"> i. Any surplus soil, cleared vegetation, <u>excavated trench material</u> or debris, shall be deposited at least 20 m from any waterbody or 	HBRC			

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	<p>deposited or contained in a manner to reasonably prevent the transportation or deposition of disturbed matter into any waterbody.</p> <p>ii. The wash water from containers and tools shall not be discharged into any waterbody and the washing of equipment shall not occur in any waterbody.</p> <p>iii. As far as practicable, all machinery work shall be undertaken from the banks of the waterbody rather than in the waterbody.</p> <p>iv. Refuelling and carrying out machinery maintenance <u>at least 10 m inland from MHWS (Mean high water springs away from waterbody)</u></p> <p>v. The use of silt fences and other erosion control methods shall be in accordance with the Council 2009: <i>Guidelines for Waterways: Erosion and Sediment Control Guidelines</i>.</p> <p>(c) The Consent Holder shall ensure that at the completion of the works, any newly established surfaces and any grassed slopes or vegetated areas that were cleared or damaged as a result of the activity, are revegetated in order to prevent sediment from entering the waterbody.</p> <p>(d) The design and installation of the works shall be such that it does not cause any long-term erosion of the bed or banks of the waterbody.</p> <p>(e) To ensure worksite spills are managed appropriately, the consent holder shall produce a Spill Management Plan (SMP) appropriate for the activities being undertaken on site. The SMP must;</p> <p>i. include procedures for preventing contaminants such as hydrocarbons or chemicals entering any waterbody in the event of a spill;</p> <p>ii. be prepared by a suitably qualified person;</p> <p>iii. be provided to the Council prior to commencement of the works.</p> <p>The consent holder and any contractors engaged to undertake work on their behalf shall abide by the SMP and a copy of this SMP must be present on site at all times while the work is being undertaken.</p> <p>(f) The Consent Holder shall check, clean and dry machinery used in the bed of the waterbody to limit the spread of aquatic pests.</p> <p>(g) Any wet concrete cast on site shall be fully contained during casting and cast in a dry work area.</p> <p><u>(h) No concrete or excess construction materials shall be dumped into bed of any waterbody.</u></p> <p>(h)(i) The consent holder shall construct the structures using methods and materials non-toxic to aquatic life, <u>and limit disturbance of the seabed to the greatest extent practicable.</u></p> <p>(h)(i) In the event of any archaeological site or waahi tapu being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease. The consent holder shall contact the Council (Manager Compliance) to obtain contact details of the relevant tangata whenua. The Consent Holder shall then consult</p>	<p>Peter Harte's recommendation refer to e2 environmental memo</p> <p>Jack Blunden – Distance used in other consents for coastal construction works</p> <p>Peter Harte's recommendation refer to e2 environmental memo</p>			<p>familiar with the consent conditions and a copy of this consent shall be present on site at all times while the work is being undertaken.</p>

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	<p>with the relevant local hapu or marae and the Heritage New Zealand Pouhere Taonga, and shall not recommence works in the area of the discovery until the relevant Heritage New Zealand Pouhere Taonga and tangata whenua approvals to damage, destroy or modify such sites have been obtained.</p> <p>(j)(k) The Consent Holder shall ensure that any contractors engaged to undertake work authorised by this consent abide by the conditions of this consent. The person responsible for the work on site shall be familiar with the consent conditions and a copy of this consent shall be present on site at all times while the work is being undertaken.</p>				
13a 31	Notwithstanding conditions 27 to 30 above, within 6 months of commencement of this consent the Consent Holder must have nominated a contractor and be prepared to install and make modifications to the current discharge structure so that there is only a discharge at the in river diffuser.	SS	WDC suggests deletion of this condition as it is now included in Condition 26.		Notwithstanding conditions 27 to 30 above, within 6 months of commencement of this consent the Consent Holder must have nominated a contractor and be prepared to install and make modifications to the current discharge structure so that there is only a discharge at the in river diffuser.
13a 31	Notwithstanding conditions 27 to 30 above, within 6 months of commencement of this consent the Consent Holder must have nominated a contractor and be prepared to install and make modifications to the current discharge structure so that there is only a discharge at the in river diffuser.	HBRC Jack: That only treated wastewater is discharged through the in river diffuser	Dealing specifically with the HBRC issue raised, because of the direct link with the Fitzroy Street pump station overflow it is not possible for WDC to guarantee this pipe will only discharge treated wastewater.		
13b 32	Within 18 months of commencement of this consent, discharge structure modifications must have occurred so that discharge occurs solely through the structure installed in accordance with Condition 31.	SS	WDC suggests deletion of this condition as it is now included in Condition 26.		Within 18 months of commencement of this consent, discharge structure modifications must have occurred so that discharge occurs solely through the structure installed in accordance with Condition 31.
13b 32	Within 18 months of commencement of this consent, discharge structure modifications must have occurred so that discharge occurs solely through the structure installed in accordance with Condition 31.				
	MAINTENANCE AND ASSET MANAGEMENT				MAINTENANCE AND ASSET MANAGEMENT
38 33	<p>The Consent Holder must:</p> <p>(a) ensure that the above ground physical infrastructure of the treatment system is inspected weekly, and that relevant parts of the systems are also inspected whenever any alarms associated with the systems are activated; and</p> <p>(b) visually inspect the land surface of all discharge piping routes every 2 weeks, and that relevant parts of the systems are also inspected whenever any alarms associated with the systems are activated; and</p> <p>(c) visually inspect the piping and discharge location at pumps stations following any discharge.</p>	HBRC Tania: Council do not see why there would be the need to discharge any raw sewage from the pump stations with the proposed modifications, upgrades an I&I work proposed.	WDC cannot guarantee that large storm flows and/or pump station failures and blockages of reticulation will never overflow the pump wet wells. In fact these overflow structures are a vital protection for the reticulation system.	35	<p>The Consent Holder must:</p> <p>(a) ensure that the above ground physical infrastructure of the treatment system is inspected weekly, and that relevant parts of the systems are also inspected whenever any alarms associated with the systems are activated; and</p> <p>(b) visually inspect the land surface of all discharge piping routes every 2 weeks, and that relevant parts of the systems are also inspected whenever any alarms associated with the systems are activated; and</p> <p>(c) visually inspect the piping and discharge location at pumps stations following any <u>high level alarms that indicate potential overflow</u> discharge.</p>
39 34	The Consent Holder must ensure that all components of the wastewater treatment plan and outfall structure are maintained in good working order, and in accordance with industry best practice guidelines.		No feedback received. No change proposed.	36	The Consent Holder must ensure that all components of the wastewater treatment plan and outfall structure are maintained in good working order, and in accordance with industry best practice guidelines.

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40 35	The Consent Holder must record the details of all inspections and works undertaken in accordance with Condition 30. Those records shall be made available to the Council upon request.		No feedback received. No change proposed.	37	The Consent Holder must record the details of all inspections and works undertaken in accordance with Condition 30 35. Those records shall be made available to the Council upon request.
41 36	The Consent Holder must include in an asset management plan provision for condition assessments to be undertaken no less frequently than every five years. The relevant provisions and results of any assessment shall be made available to Council upon request.	HBRC Tania: Is this [5 year] frequency appropriate should it no align with manufacturers warranty requirements?	This is an asset owner's management decision and function. LGA also requires WDC to do asset management planning.	38	The Consent Holder must include in an asset management plan provision for condition assessments to be undertaken no less frequently than every five years. The relevant provisions and results of any assessment shall be made available to Council upon request.
	INITIAL IMPROVEMENTS AND ACTIONS				INITIAL IMPROVEMENTS AND ACTIONS
	Filtration and UV Treatment	HBRC This requires two sets of parameters for monitoring.			Filtration and UV Treatment
14 40	<p>Within two <u>one</u> years of the commencement date of this consent, the Consent Holder must have in operation submit to the Council for certification a report outlining the detailed design of the filtration and ultra violet (UV) disinfection treatment system to be installed that is endorsed by the DHB. The detailed design report shall (but is not limited to):</p> <p>(a) Be prepared by suitably qualified and experienced, independent expert/s; and</p> <p>(b) Clearly outline the:</p> <ol style="list-style-type: none"> i. The location of the disinfection system within the treatment process with supporting explanation, ii. discharge parameters for which the disinfection system has been designed; iii. The flow rate and daily total volume able to be accommodated by the disinfection system, <p>(c) Contain details of key operational matters including daily, weekly and monthly maintenance checks; and</p> <p>(d) Include details of the construction timetable.</p> <p>Within two months of receiving the detailed design report, the Council must advise, in writing, the consent holder whether or not they have certified the detailed design.</p> <p>(a) If the Council refuses to certify the detailed design it must advise the consent holder why this view is held. The consent holder shall resubmit a revised detailed design to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the initial detailed design.</p> <p>(b) If the Council certifies the detailed design, the consent holder shall commence construction of the grit trap and filtration and UV disinfection treatment system in accordance with the timetable set out in the report.</p>	SS	<p>WDC are committing to have installed the UV system within two years as requested by the submitter. This system does not need to be certified by HBRC as it will be required to meet performance specifications i.e. consent limits.</p> <p>DHB won't be able to endorse the proposed system design.</p> <p>A requirement sought by HBRC for a minimum UVT has been included, and WDC believe this should apply to discharge below the 3 x median river when the maximum wastewater flow is less than 5,000 m³/d.</p>	39	<p>Within one <u>two</u> years of the commencement date of this consent, the Consent Holder must have installed and be operating <u>submit to the Council for certification a report outlining the detailed design of the</u> filtration and ultraviolet (UV) disinfection treatment system to be installed. The detailed design report for the system installed shall (but is not limited to):</p> <p>(a) Be prepared by suitably qualified and experienced, independent expert/s;</p> <p>(b) Clearly outline <u>detail</u> the:</p> <ol style="list-style-type: none"> i. The location of the disinfection system within the treatment process with supporting explanation, ii. <u>inflow and discharge quality parameters for which the disinfection system has been designed, including UV transmissivity (UVT) that achieves or exceeds a minimum UVT of 60% when discharge flows of Treated Wastewater are 5,000 m³/d or less;</u> iii. The flow rate and daily total volume able to be accommodated by the disinfection system, <u>and</u> <p>(c) <u>Take into consideration</u> Contain details of key operational matters including daily, weekly and monthly maintenance checks; and</p> <p>(d) Include details of the construction timetable.</p> <p>Within two months of receiving the detailed design report, the Council must advise, in writing, the consent holder whether or not they have certified the detailed design.</p> <p>(a) If the Council refuses to certify the detailed design it must advise the consent holder why this view is held. The consent holder shall resubmit a revised detailed design to the Council for certification as soon as</p>

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14 40	<p>Within one year of the commencement date of this consent, the Consent Holder must submit to the Council for certification a report outlining the detailed design of the filtration and ultra violet (UV) disinfection treatment system to be installed. The detailed design report shall (but is not limited to):</p> <p>(e) Be prepared by suitably qualified and experienced, independent expert/s;</p> <p>(f) Clearly outline the:</p> <ul style="list-style-type: none"> i. The location of the disinfection system within the treatment process with supporting explanation, ii. discharge parameters for which the disinfection system has been designed, <u>including UV transmissivity (UVT);</u> iii. The flow rate and daily total volume able to be accommodated by the disinfection system, <p>(g) Contain details of key operational matters including daily, weekly and monthly maintenance checks; and</p> <p>(h) Include details of the construction timetable.</p> <p>Within two months of receiving the detailed design report, the Council must advise, in writing, the consent holder whether or not they have certified the detailed design.</p> <p>(a) If the Council refuses to certify the detailed design it must advise the consent holder why this view is held. The consent holder shall resubmit a revised detailed design to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the initial detailed design.</p> <p>(b) If the Council certifies the detailed design, the consent holder shall commence construction of the grit trap and filtration and UV disinfection treatment system in accordance with the timetable set out in the report</p>	<p>HBRC</p> <p>Malcolm: This [flow capacity] makes me wonder what the treatment will be when discharging in the high flow situation? Will it still go through this phase of treatment. Is the storage pond before or after this phase? Answered by Condition 41</p> <p>Jack: As per comment against condition 29, this could be captured into one catch all for conditions requiring certification.</p> <p>Malcolm: The detailed design should be incorporated into the structure design plan</p> <p>Nick re grit trap – “What is this?”</p>	<p>WDC agree to specify UVT as a design parameter.</p> <p>The certification process has been deleted from here and instead covered in a generic condition describing the certification process.</p>		<p>practicable, and no later than three months after receiving notification from the Council that it refused to certify the initial detailed design.</p> <p>(b) If the Council certifies the detailed design, the consent holder shall commence construction of the grit trap and filtration and UV disinfection treatment system in accordance with the timetable set out in the report.</p>
14a 41	<p>Within three-two years of the commencement date of this consent, the Consent Holder must have installed a UV system that treats all of the wastewater discharged, <u>and have been endorsed by the DHB.</u></p>	<p>SS</p>	<p>Condition no longer needed as WDC has committed to install the UV system.</p>		<p>Within three years of the commencement date of this consent, the Consent Holder must have installed a UV system that treats all of the wastewater discharged.</p>
14a 41	<p>Within three years of the commencement date of this consent, the Consent Holder must have installed <u>and commissioned a filtration and UV disinfection</u> system that treats all of the wastewater discharged. <u>The system shall be operated in a manner than achieves or exceeds the certified design performance, with a minimum UVT of 60%.</u></p>	<p>HBRC</p> <p>Is this realistic? Applicant to consider whether the cost of a system sized for peak wet weather flows is appropriate.</p>	<p>WDC acknowledge that the performance will be lower for high flows. The design performance will be limited to below a nominated upper flow (5,000 m³/d). This is described in Condition 39 (b) (ii).</p>		
	<p>Network Management Plan</p>				<p>Network Management Plan</p>

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15 42	<p>Within 12 months of the commencement date of this consent, the Consent Holder must submit to the Council a Network Management Plan. The Plan shall include, but is not limited to:</p> <p>(a) Details of work undertaken since 2015 to reduce the volume of infiltration into the reticulated wastewater network.</p> <p>(b) Details of further work planned <u>to</u> be done over the next 5 years to reduce infiltration into the reticulated wastewater network, including (but not limited to):</p> <ol style="list-style-type: none"> i. Installation of a dedicated main pipeline from Kopu Road pump station to Fitzroy Street pump station, ii. Installation of new chopper pumps at every pump station, iii. Installation of emergency power generators at every pump station, iv. Installation of a duplicate rising main from the Fitzroy Street pump station to the Treatment Plant. <p>(c) Timeframes for completion of future works.</p> <p>(d) Calculations of predicted reductions in wastewater flows received at the wastewater treatment plant as a result of the planned works.</p> <p>The consent holder shall undertake the planned works as set out in the Wastewater Network Infiltration Management Plan, within the timeframes specified. The Plan shall be reviewed and incorporated as part of preparing each Wastewater System Review Report as required by Condition 58.</p>		WDC have updated the list of planned works to reflect actual programmed works.	40	<p>Within 12 months of the commencement date of this consent, the Consent Holder must submit to the Council <u>Manager</u> a Network Management Plan. The Plan shall include, but is not limited to:</p> <p>(a) Details of work undertaken since 2015 to reduce the volume of infiltration into the reticulated wastewater network.</p> <p>(b) Details of further work planned <u>to</u> be done over the next 5 years to reduce infiltration into the reticulated wastewater network, including (but not limited to):</p> <ol style="list-style-type: none"> i. Installation of a dedicated main pipeline from Kopu Road pump station to Fitzroy Street pump station, <u>On-going private property inspections for compliance. le no illegal storm water connections to the sewer network.</u> ii. Installation of new chopper pumps at every pump station, iii. Installation of emergency power generators at every pump station, iv. Installation of a duplicate rising main from the Fitzroy Street pump station to the Treatment Plant <u>WWTP inlet.</u> <p>(c) Timeframes for completion of future works.</p> <p>(d) Calculations of predicted reductions in wastewater flows received at the wastewater treatment plant <u>WWTP as a result of the planned works.</u></p> <p>The Consent H <u>Holder</u> shall undertake the planned works as set out in the Wastewater Network Infiltration Management Plan, within the timeframes specified. The Plan shall be reviewed <u>by the Consent Holder</u> and incorporated as part of preparing each Wastewater System Review Report as required by Condition 58 <u>55</u>.</p>
	Mortuary Waste				Mortuary Waste
15a 43	<p>Within 12 months of the commencement date of this consent, the consent holder shall have prepared a summary document to be presented to the second MWWP meeting. The summary document shall address:</p> <ol style="list-style-type: none"> (a) The volume and characteristics of mortuary wastes currently discharged; (b) Expected changes in management of mortuary wastes entering the wastewater sewer; (c) Cultural and social implications for the current discharge; (d) Current regulatory rules and limitations with mortuary waste discharge into the wastewater sewer; (e) Cost implications to ratepayers for possible changes in management of mortuary wastes; (f) The requirements and limitations for management of wastes from multiple fatalities; (g) Potential alternatives to the current management practices, including cultural, social and financial implications. 		No feedback received. No change proposed except for minor definition terminology.	41	<p>Within 12 <u>24</u> months of the commencement date of this consent, the Consent H <u>Holder</u> shall have prepared a <u>Mortuary Waste Summary Document</u> to be presented to the second MWWP meeting. The summary document shall address:</p> <ol style="list-style-type: none"> (a) The volume and characteristics of mortuary wastes currently discharged; (b) Expected changes in management of mortuary wastes entering the wastewater sewer; (c) Cultural and social implications for the current discharge; (d) Current regulatory rules and limitations with mortuary waste discharge into the wastewater sewer; (e) Cost implications to ratepayers for possible changes in management of mortuary wastes; (f) The requirements and limitations for management of wastes from multiple fatalities;

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	Advice Note: MWWP and its operation is defined in Condition 37				(g) Potential alternatives to the current management practices, including cultural, social and financial implications. Advice Note: MWWP and its operation is defined in Condition 37.
15b 44	Based on guidance given by the MWWP from the presentation of the summary document in condition 15b, the consent holder shall prepare a Mortuary Waste Management Plan. This plan shall have received input from any operators currently discharging mortuary waste to the wastewater sewer. This plan shall be presented to the third meeting of the WRP, and subject to revisions, within 6 months of the third meeting recommendations shall be made to the Wairoa District Council Infrastructure Committee to modify, if appropriate, the management of mortuary waste entering the wastewater sewer. Advice Note: such recommendations could be modification of the Trade Waste Bylaws that govern acceptance of mortuary waste.	SS: What is WRP?	No feedback received. No change proposed except for minor definition and typo corrections.	42	Based on guidance given by the MWWP from the presentation of the summary document in Condition 15b 41, the e Consent H Holder shall prepare a Mortuary Waste Management <u>Action</u> Plan. This plan shall have received input from any operators currently discharging mortuary waste to the wastewater sewer. This plan shall be presented to the third meeting of the MWRWP , and subject to revisions, within 6 months of the third <u>that</u> meeting, recommendations shall be made to the Wairoa District Council Infrastructure Committee to modify, if appropriate, the management of mortuary waste entering the wastewater sewer. Advice Note: such recommendations could be modification of the Trade Waste Bylaws that govern acceptance of mortuary waste.
15b 44	Based on guidance given by the MWWP from the presentation of the summary document in condition 15b, the consent holder shall prepare a Mortuary Waste Management Plan. This plan shall have received input from any operators currently discharging mortuary waste to the wastewater sewer. This plan shall be presented to the third meeting of the WRP, and subject to revisions, within 6 months of the third meeting recommendations shall be made to the Wairoa District Council Infrastructure Committee to modify, if appropriate, the management of mortuary waste entering the wastewater sewer. Advice Note: such recommendations could be modification of the Trade Waste Bylaws that govern acceptance of mortuary waste.	HBRC Malcolm: Is this approach of "if appropriate consistent with the Trade Waste Bylaw prohibition in next condition?"			
15e 45	Within 18 months of the commencement date of this consent, the Consent Holder must have initiated a Trade Waste Bylaw review consultation process that proposes mortuary waste being prohibited from entering the sewer and treatment system.		WDC have clarified the trigger and timing for implementation of this condition. The Bylaw review can't commence if it has not been recommended to WDC through its internal management and reporting processes.	43	<u>If recommended to the Wairoa District Council Infrastructure Committee as an outcome of Condition 42, w</u> Within 18 <u>36</u> months of the commencement date of this consent, the Consent Holder must have initiated a Trade Waste Bylaw review consultation process that proposes mortuary waste being prohibited from entering the sewer and treatment system.
	Initial Land Treatment Area				Initial Land Treatment Area
16 46	The Consent Holder must <u>have acquired 50ha of land and have implemented an irrigation system for discharge to land within 5 years. provide a</u> Annual updates to the Council during the month of June of each year <u>for the first five years until system is operational will detail of the commencement date of this consent as to</u> progress towards establishing the <u>system. ability to discharge treated effluent to up to 50 ha of land.</u> The updates may cease once 50 ha of land application area is commissioned.	SS	WDC notes that they may struggle to buy land. It may be more effective to simply lease.	44	The Consent Holder must provide annual updates to the Council <u>Manager</u> during the month of June of each year for the first five years of from the commencement date of this consent as to progress towards establishing the ability to discharge treated effluent to up to 50 ha of land. The updates may cease once 50 ha of land application area is commissioned.
46	The Consent Holder must provide annual updates to the Council during the month of June of each year for the first five years offrom the commencement date of this consent as to progress towards establishing the ability to discharge treated effluent to up to 50 ha of land. The updates may cease once 50 ha of land application area is commissioned.	HBRC Nick: What happens after 5 years? Suggest the five year requirement is deleted so that reporting is required until irrigation is in place.	The aim is that 50 ha of land will be irrigated within the first 5 years. However, it is fair to require continued reporting if this is not achieved within 5 years.		

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	Initial Storage Facilities				Initial Storage Facilities
16a 47	The Consent Holder must <u>have constructed an additional 10,000m3 of storage within 5 years of the commencement of this consent.</u> provide annual updates to the Council and During the month of June of each year for the first five years of the commencement date of this consent <u>an update</u> as to progress towards establishing the ability to construct and operate up to 10,000 m ³ of additional storage of wastewater. The updates may cease once 10,000 m ³ of additional storage is commissioned.	ss	While the intent would be to provide storage as soon as possible, the ability to secure land and the necessary funding creates limitations as to when it will happen.	45	The Consent Holder must provide annual updates to the Council <u>Manager</u> during the month of June of each year for the first five years of from the commencement date of this consent as to progress towards establishing the ability to construct and operate up to 10,000 m ³ of additional storage of wastewater. The updates may cease once 10,000 m ³ of additional storage is commissioned.
47	<u>The Consent Holder must provide annual updates to the Council during the month of June of each year for the first five years offrom</u> the commencement date of this consent as to progress towards establishing the ability to construct and operate up to 10,000 m ³ of additional storage of wastewater. <u>The updates may cease once 10,000 m³ of additional storage is commissioned.</u>	HBRC What happens after 5 years? The reporting goes away?	The aim is that 10,000 m ³ of additional storage will be completed within the first 5 years. However, it is fair to require continued reporting if this is not achieved within 5 years.		
	Wastewater Education Plan				Wastewater Education Plan
17 48	Within 12 months of the commencement date of this consent, the Consent Holder must submit to the Council a Wastewater Education Plan (WEP) detailing a multi-faceted programme designed to increase the public's understanding and awareness of how their [the public's] actions/activities can influence wastewater volumes, and the ways in which the public can reduce water use. Within six months of submitting the report to Council, the consent holder shall commence delivery of the WUEP, in accordance with the report. The Consent Holder must undertake the planned works as set out in the Wastewater Education Plan, within the timeframes specified. The Plan shall be reviewed and updated as part of preparing each Wastewater System Review Report as required by Condition 58.		No feedback, but WDC have removed the need for HBRC to approve this Plan and clarified the timing of its implementation.	46	Within 12 months of the commencement date of this consent, the Consent Holder must <u>prepare and implement</u> submit to the Council a Wastewater Education Plan (WEP) detailing a multi-faceted programme designed to increase the public's understanding and awareness of how their [the public's] actions/activities can influence wastewater volumes, and the ways in which the public can reduce water use. Within six months of after submitting the report <u>WEP to the Council Manager</u> , the Consent Holder shall commence delivery of the WUEP, in accordance with the report . The Consent Holder must undertake the planned works as set out in the Wastewater Education Plan, within the timeframes specified. The Plan shall be reviewed and updated as part of preparing each Wastewater System Review <u>Data</u> Report as required by Condition 58 <u>53</u> .
	Catchment Enhancement Plan				Catchment Enhancement Plan
18 49	Within 12 months of the commencement date of this consent, the Consent Holder must submit to the Council a Catchment Enhancement Plan detailing actions taken in the past 24 months and intended actions over the next 3 years towards facilitating the involvement of the Wairoa District Council in activities that improve the quality of freshwater within the wider Wairoa River Catchment. This shall include (but not be limited to): (a) Progress on and assistance provided to establishing a catchment improvement group; (b) Financial and in-kind contributions to individual and collaborative catchment programmes; (c) The financial commitment given to various programmes, and that planned;		No change was offered, but discussions with submitters identified an opportunity to include broad scale mapping to better understand catchment dynamics.	47	Within 12 months of the commencement date of this consent, the Consent Holder must submit to the Council <u>Manager</u> a Catchment Enhancement Plan detailing actions taken in the past 24 months and intended actions over the next 3 years towards facilitating the involvement of the Wairoa District Council in activities that improve the quality of freshwater within the wider Wairoa River Catchment. This shall include (but not be limited to): (a) Progress on and assistance provided to establishing a catchment improvement group; (b) Financial and in-kind contributions to individual and collaborative catchment programmes;

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	<p>The Catchment Enhancement Programme Plan shall include specific programmes (where known), timing of contributions and involvement and financial commitments.</p> <p>The consent holder shall undertake the planned works as set out in the Catchment Enhancement Plan, within the timeframes specified. The Plan shall be reviewed and updated as part of preparing each System Improvement Plan as required by Condition 58 and shall be submitted to Council.</p> <p>Advice Note: The Catchment Enhancement Plan may want to consider plans being prepared by others, including the Council and Iwi, so as to provide joint opportunities to share information and provide for consistent approaches and methodologies.</p>				<p>(c) The financial commitment given to various programmes, and that planned;</p> <p>The Catchment Enhancement Programme Plan shall include specific programmes (where known), timing of contributions and involvement and financial commitments (such as undertaking a broad scale benthic survey once every 3 years within the Whakamahi and Ngamotu Lagoons downstream of the outfall).</p> <p>The eConsent HHolder shall undertake the planned works as set out in the Catchment Enhancement Plan, within the timeframes specified, <u>subject to obtaining all necessary approvals and funding</u>. The Plan shall be reviewed and updated as part of preparing each System Improvement Plan as required by Condition 58 55 and shall be submitted to Council.</p> <p>Advice Note: The Catchment Enhancement Plan may want to consider plans being prepared by others, including the Council and Iwi, so as to provide joint opportunities to share information and provide for consistent approaches and methodologies.</p>
	REPORTING AND NOTIFICATION				REPORTING AND NOTIFICATION
45 50	The Consent Holder must notify the Council within two working days of the identification of any non-compliance or when it becomes evident that a breach of Consent Conditions is about to occur. For conditions requiring compliance with a particular water quality standard, <u>or mauri monitoring standard</u> notification is required within two working days of receipt of the water quality analysis from the Laboratory.	SS	The addition is not the intent of this condition. There is no standard in the CHIM/mauri monitoring to report non-compliance to the Council.	48	The Consent Holder must notify the Council <u>Manager as soon as possible and no later than</u> within two working days of the identification of any non-compliance or when it becomes evident that a breach of Consent Conditions is about to occur. For conditions requiring compliance with a particular water quality standard, <u>notification of the Council Manager</u> is required within two working days of receipt of the water quality analysis <u>result</u> from the Laboratory.
45 50	The Consent Holder must notify the Council <u>as soon as possible and no later than</u> within two working days of the identification of any non-compliance or when it becomes evident that a breach of Consent Conditions is about to occur. For conditions requiring compliance with a particular water quality standard is required within two working days of receipt of the water quality analysis from the Laboratory.	HBRC Annual reporting should be undertaken as per other municipal discharges	Agree.		
	Annual Monitoring Report				Annual Monitoring Report
42 51	By X Y 1 X 2021, <u>and there after every two years</u> , the Consent Holder must prepare an Annual Monitoring Report that summarises and assesses all of the monitoring information required under Conditions ?, ? and ? for the preceding 24 months (1 Y to 30 Y) or part thereof for the duration of this Consent. The raw monitoring data from Conditions 19 and 21 should be made available to the Council. The Annual Monitoring Report must assess whether compliance has been achieved with Conditions ?. This report must be submitted to Council in a suitable electronic format. The report shall address and summarise (but not be limited to) the following: (a) daily discharge volumes, and corresponding river flows and tidal sequence; (b) summary of any wastewater quality monitoring information and compliance with water quality standards;	SS	WDC support adding a requirement to report the cultural monitoring, but there are no mauri monitoring standards. It would be unwise for WDC to accept specific requirements without knowing what they are.	49	By X-Y 1 X <u>31 August</u> 2021, and thereafter every two years, the Consent Holder must prepare an Annual Monitoring Report that summarises and assesses all of the monitoring information required under Conditions ?, ? and ? <u>of the Resource Consents</u> for the preceding 24 months (1 Y <u>July</u> to 30 June) or part thereof for the duration of this Consent. The raw monitoring data from Conditions 19 and 21 should be made available to the Council <u>Manager</u> . The Annual Monitoring Report must assess whether compliance has been achieved with <u>each of the Resource Consent conditions</u> ?. This report must be <u>prepared by a suitably qualified and experienced person and submitted to the Council Manager</u> in a suitable electronic format. The report shall address and summarise (but not be limited to) the following:

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	<p>(c) the occurrence of any pump station overflow and corresponding river flows and tidal sequence;</p> <p>(d) storage management; and</p> <p>(e) the volume discharged to alternative receiving environments.</p> <p>(e)(f) <u>Tangata whenua summary of any mauri monitoring information and compliance with mauri monitoring standards</u></p>				<p>(a) daily discharge volumes, and corresponding river flows, <u>river mouth conditions</u>, and tidal sequences, and compliance with discharge limits;</p> <p>(b) summary of any wastewater quality monitoring information and compliance with <u>Treated Wastewater</u> quality standards;</p> <p>(c) the occurrence of any pump station overflow and corresponding <u>rainfall</u>, river flows and tidal sequence;</p> <p>(d) storage management; and</p> <p>(e) the volume discharged to alternative receiving environments;</p> <p>(f) <u>identification and comment on any trends in discharge data collected, both within the annual period and compared to previous years, including comment on the potential environmental implications of these trends;</u></p> <p>(g) <u>any areas of non-compliance and actions taken to rectify them;</u></p> <p>(h) <u>summary and assessment of receiving environment monitoring data, both within the annual current period and compared to previous years;</u></p> <p>(i) <u>any cultural health monitoring undertaken;</u></p> <p>(j) <u>details of any improvements or changes made to the system; and</u></p> <p>(k) <u>any recommendations for improvement/changes to the monitoring programmes.</u></p>
42 51	<p>By X Y 1 X 2021, and there after every two years, the Consent Holder must prepare an Annual Monitoring Report that summarises and assesses all of the monitoring information required under Conditions ?, ? and ? for the preceding 1224 months (1 Y to 30 Y) or part thereof for the duration of this Consent. The raw monitoring data from Conditions 19 and 21 should be made available to the Council. The Annual Monitoring Report must assess whether compliance has been achieved with Conditions ?. This report must be submitted to Council in a suitable electronic format. The report shall address and summarise (but not be limited to) the following:</p> <p>(a) daily discharge volumes, and corresponding river flows and tidal sequence;</p> <p>(b) summary of any wastewater quality monitoring information and compliance with water quality standards <u>and any additional monitoring undertaken by the consent holder to better characterise the effects of the discharge on the Wairoa River;</u></p> <p>(c) the occurrence of any pump station overflow and corresponding river flows and tidal sequence;</p> <p>(d) storage management; and</p> <p>(e) the volume discharged to alternative receiving environments;</p> <p>(f) <u>identification and comment on any trends in data collected, both within the annual period and compared to previous years. This shall include any trends in water quality parameters/wastewater constituents including comment on the potential environmental implications of these trends;</u></p> <p>(g) <u>any areas of non-compliance and actions taken to rectify;</u></p> <p>(h) <u>Summary and analysis of receiving environment sampling data;</u></p> <p>(i) <u>Details of improvement undertaken to the system;</u></p> <p>(j) <u>Recommendations for improvement/changes to the monitoring programs;</u> <u>and</u></p> <p>(e)(k) <u>Prepared by a suitably qualified and experienced person.</u></p>	<p>HBRC</p> <p>Tania: Annual reporting should be undertaken as per other municipal discharges</p> <p>Tania: Similar requirement for NCC municipal discharge</p> <p>Tania: As per 51 (b)</p> <p>Jack: [additions and] changes to condition</p>	<p>HBRC previously accepted 2-yearly reporting when WDC confirmed this in response to the s92 queries so WDC would prefer to retain this.</p> <p>The additional requirements all appear reasonable for WDC to accept. Some editing is proposed for more clarity of requirements.</p>		
	<p>Pump Station Performance</p>	<p>HBRC</p> <p>Tania: These conditions should not be included, it should be dealt with through the Emergency provisions of the RMA, if needed. Given the works outlined in this application will</p>	<p>HBRC's compliance staff and WDC disagree with HBRC's consenting response. It has been accepted for some time now that pump station overflows and their existing structures do require</p>		<p>Pump Station Performance</p>

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		negate the need for overflows ever taking place in the course of normal operating conditions with emergency generators and infrastructure improvements ensuring during storm events or when power outages occur wastewater will still be pumped to the WWTP.	consents to meet RMA requirements and comply with Regional Plan rules despite being presumably lawfully constructed prior to the RMA. They cannot be dealt with through the RMA's emergency provisions. This is why consents for these overflow discharges have been specifically sought in this application.		
43 52	<p>Should a pump station overflow occur, the Consent Holder must:</p> <p>(a) Advise the following parties within 24 hours of becoming aware of the incident,</p> <ul style="list-style-type: none"> i The Council; ii MWWP; iii The Hawke's Bay District Health Board's Public Health Unit; and iv TaiwhenuaOthers?? v Public notification via radio/social media/newspaper <p>(b) Erect signage along the river bank <u>and post to social media</u> to advise the community of the incident</p> <p>(c) Provide a summary report to the Council within 48 hours of the discharge ceasing and detail:</p> <ul style="list-style-type: none"> i the location and timing of the overflow; ii the approximate volume released; iii river and tidal conditions at the time of the discharge; iv any observed effects; v the cause of the discharge; and vi remedial action if known to avoid such discharge occurring again. 	SS	WDC has taken into account suggested changes and included further changes from a subsequent condition.	50	<p>Should a pump station overflow occur, the Consent Holder must:</p> <p>(a) Advise the following parties within 24 hours of becoming aware of the incident:</p> <ul style="list-style-type: none"> i The Council <u>Manager</u>; ii MWWP; iii The EHO and <u>Hawke's Bay District Health Board's Public Health Unit;</u> iv marae with close proximity to the Wairoa River; and v Others? <u>Taiwhenua.</u> <p>(b) Erect signage along the riverbank <u>and issue public notices via local mass media, social media, and the Consent Holder's website</u> to advise the community of the incident; <u>and</u></p> <p>(c) Provide a summary report to the Council <u>Manager</u> within 48 hours of the discharge ceasing and which <u>details:</u></p> <ul style="list-style-type: none"> i the location and timing of the overflow; ii the approximate volume released <u>(if practicable to quantify)</u>; iii river and tidal conditions at the time of the discharge; iv any observed effects; v the cause of the discharge; and vi remedial action if known <u>and practicable</u> to avoid <u>or reduce the likelihood of</u> such discharge occurring again.
52	Delete whole pump station performance section – 52 & 53	<p>HBRC Jack: If this is going to be an issue then they need to be able to know 100% when an overflow has occurred.</p> <p>Would meters be installed confirming the date/volume of overflow?</p>	It is difficult to visually check overflows when the river is flooding. Meters are very expensive for occasional events and don't measure flow accurately when the pipe is not full. WDC as noted in Condition 50 propose to continue to record when an overflow event occurs.		

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44a 53	<p>Should notification occur as required in Condition 52, members of the MWWP must be given an opportunity to view water levels and discolouration in the estuary and provide guidance on measures taken to respond overflows and high water levels. Such measures may include, but not be limited to:</p> <p>(a) direct the Consent Holder to advise specific marae of the closure of the river mouth and the need to avoid gathering of kaimoana and contact recreation;</p> <p>(b) placement and erection of warning signage;</p> <p>(c) Public notification via radio/social media/newspaper</p> <p>(d) ?</p> <p>(e) ?</p>	SS	WDC suggest condition is deleted as it largely repeats the previous condition.		<p>Should notification occur as required in Condition 52, members of the MWWP must be given an opportunity to view water levels and discolouration in the estuary and provide guidance on measures taken to respond overflows and high water levels. Such measures may include, but not be limited to:</p> <p>(a) direct the Consent Holder to advise specific marae of the closure of the river mouth and the need to avoid gathering of kaimoana and contact recreation;</p> <p>(b) placement and erection of warning signage; and</p> <p>(c) ?</p>
	PROGRESSIVE IMPROVEMENT PROGRAMME				PROGRESSIVE IMPROVEMENT PROGRAMME
	Wastewater Stakeholder Group				Wastewater Stakeholder Group
19 54	<p>No less than 6 months prior to the submission date of the 'System Review Data Reports' required by Conditions 56, the Consent Holder must facilitate the establishment and meetings of a Wastewater Stakeholder Group (the Group) for the purposes of providing feedback on the matters of discussion referred to under Condition 58 [system review data reports]. <u>In consultation with the MWWP</u> invitations shall be extended to, but are not limited to, representatives of different sectors of the Wairoa community including:</p> <p>(a) A youth representative;</p> <p>(b) A representative of the older population;</p> <p>(c) Tangata whenua;</p> <p>(d) Local business owners;</p> <p>(e) Local industries;</p> <p>(f) Hawke's Bay Regional Council;</p> <p>(g) The Department of Conservation;</p> <p>(h) Hawke's Bay District Health Board;</p> <p>(i) Wairoa District Council.</p> <p>The Group may be disbanded between each review provided the Group is reformed in accordance with this condition 6 months prior to each Wastewater System Review Report being finalised.</p>	SS	The submitter seeks to have the MWWP involved in deciding the makeup of the Stakeholder group. WDC considered this could work, but acknowledges that final approval of the group is at WDC's discretion.	51	<p>No less than 6 months prior to the submission date of the 'System Review Data Reports' required by Conditions 56 <u>53 and 54</u>, the Consent Holder must facilitate the establishment and meetings of a Wastewater Stakeholder Group (the Group) for the purposes of providing feedback on the matters of discussion referred to under Conditions 58 <u>53 and 54</u> [system review data reports]. <u>In consultation with the MWWP</u>, invitations shall be extended to, but are not limited to, representatives of different sectors of the Wairoa community including:</p> <p>(a) A youth representative;</p> <p>(b) A representative of the older population;</p> <p>(c) Tangata whenua;</p> <p>(d) Local business owners;</p> <p>(e) Local industries;</p> <p>(f) Hawke's Bay Regional Council;</p> <p>(g) The Department of Conservation;</p> <p>(h) Hawke's Bay District Health Board;</p> <p>(i) Wairoa District Council.</p> <p>The Group may be disbanded between each review provided the Group is reformed in accordance with this condition 6 months prior to each Wastewater System Review <u>Data</u> Report being finalised.</p>
20 55	The first task of the Wastewater Stakeholder Group is to draft 'Terms of Reference' ('Terms') for the group that set out how the group is to operate to meet its purpose, and must include, but are not limited to, details of meeting frequency, resourcing, decision making processes, group membership, expectations of members, and	HBRC Malcolm: How will this be managed. Who is to chair? What if it doesn't function? Is there payment for member ship	These details are up to the group to decide.	52	The first task of the Wastewater Stakeholder Group is to draft 'Terms of Reference' ('Terms') for the group that set out how the group is to operate to meet its purpose, and must include, but are not limited to, details of meeting frequency, resourcing, decision making processes, group membership, expectations of members, and reporting processes. Once

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	reporting processes. Once agreed to by the majority of attendees a copy of the 'Terms' shall be provided to the Council.				agreed to by the majority of attendees a copy of the 'Terms' shall be provided to the Council <u>Manager</u> .
	System Review Exercise and Reports				System Review Exercise and Reports
21 56	<p>Within five years of the commencement date of this consent, the Consent Holder must prepare a 'System Review Data Report' including but not limited to:</p> <p>(a) works undertaken to reduce inflow and infiltration;</p> <p>(b) A summary of changes that have been made to the wastewater treatment plant and details of changes proposed;</p> <p>(c) An analysis of discharge volume and river flow and tidal conditions, and opportunities to lessen the frequency of any discharges below 3 x median flow;</p> <p>(d) The dates and river flow conditions of when any overflow discharges occurred from the pump stations or outlet overflow, and a commentary around how works undertaken to reduce inflow and infiltration have reduced the frequency of overflow discharges. This should include an analysis of any trends in discharge frequency and action proposed to be taken to further reduce overflows;</p> <p>(e) A summary of <u>progress in implementing land based discharge including irrigation systems that have been considered and plans or opportunities to increase the irrigation areas up to 150 ha in the next 5 years;</u></p> <p>(f) A summary of storage sizes, locations, and designs that have been considered and plans or opportunities to increase the storage volume up to an additional 10,000 m³ 5 years from commencement date of this consent; and</p> <p>(g) key contributions made to improve the quality of freshwater within the wider Wairoa River Catchment, <u>including summary of discussions with other major point source discharges into the Wairoa River, that must include AFFCO-</u></p> <p>(h) Funding sources investigated to assist with wastewater system improvements.</p> <p>The data must be provided in a manner to facilitate discussion on the options available at the time to reduce the volume of wastewater that needs to be discharged to the Wairoa River by considering the following:</p> <p>(Aa)–The feasibility of and methods to amend the discharge regime to verify the assimilative capacity of the river to receive the discharge. so that:</p> <p>(Ab)– During flows less than ½ median:</p> <p>(Ac)– Discharge volumes will be limited to 1,600m³ during any 24 hour period;</p> <p>(Ad)– The discharge will:</p> <p>(Ae)– only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide;</p> <p>(Af)– only occur after 6 pm;</p> <p>(Ag)– shall cease by 6 am at all times; and</p>	SS	<p>WDC comments:</p> <p>(e) ok with some other wording modifications.</p> <p>(g) AFFCO inclusion seems reasonable</p> <p>(Aa) the work has been undertaken to consider the assimilative capacity. It is noted this is hard to quantify due to the dynamic nature of the discharge location, especially influenced by tidal cycles.</p>	53	<p>Within five years of the commencement date of this consent, the Consent Holder must prepare a 'System Review Data Report' including but not limited to:</p> <p>(a) works undertaken to reduce inflow and infiltration;</p> <p>(b) A summary of changes that have been made to the wastewater treatment plant and details of changes proposed;</p> <p>(c) An analysis of discharge volume and river flow and tidal conditions, and opportunities to lessen the frequency of any discharges below 3 x median flow;</p> <p>(d) The dates and river flow conditions of when any overflow discharges occurred from the pump stations or outlet overflow, and a commentary around how works undertaken to reduce inflow and infiltration have reduced the frequency of overflow discharges. This should include an analysis of any trends in discharge frequency and action proposed to be taken to further reduce overflows;</p> <p>(e) A summary of irrigation <u>and other land-based discharge systems that have been implemented and changes that have been considered and plans or opportunities to increase the irrigation areas up to 150 ha in the next 5 years;</u></p> <p>(f) A summary of <u>storage expansion that has been implemented and changes to</u> storage sizes, locations, and designs that have been considered and plans or opportunities to increase the storage volume up to an additional 10,000 m³ <u>in the next 5 years from commencement date of this consent;</u> and</p> <p>(g) <u>Whether the discharge quality standards of this consent can be adjusted to improve discharge quality;</u></p> <p>(h) Key contributions made to improve the quality of freshwater within the wider Wairoa River Catchment, <u>including summary of discussions with AFFCO and other major point source dischargers into the Wairoa River;</u></p> <p>(i) Funding sources investigated to assist with wastewater system improvements.</p> <p>The data must be provided in a manner to facilitate discussion on the options available at the time to reduce the volume of wastewater that needs to be discharged to the Wairoa River by considering the following:</p> <p>(Aa) The feasibility of and methods to amend the discharge regime so that:</p> <p>i During flows less than ½ median:</p>

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	<p>(Ah) be limited to no more than 30 days discharge in the months of December through to March</p> <p>(Ai) During flows between ½ median to median:</p> <p>(Aj) Discharge volumes will be limited to 3,000m³ during any 24 hour period;</p> <p>(Ak) The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide;</p> <p>(Al) During flows between median to 3xmedian:</p> <p>(Am) Discharge volumes will be limited to 5,000m³ during any 24 hour period;</p> <p>(An)(Aa) The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide;</p> <p>(Ao)(Ab) Any changes to the filtration and UV treatment system;</p> <p>(Ap)(Ac) The availability of any other alternative discharge and/or treatment options;</p> <p>(Aq)(Ad) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered;</p> <p>(Ar)(Ae) The likely storage requirements for implementation of each discharge option; and</p> <p>(As)(Af) Updates to the Catchment Enhancement Programme Plan.</p>				<ul style="list-style-type: none"> • Discharge volumes will be limited to 1,600m³ during any 24 hour period, • The discharge will: <ul style="list-style-type: none"> ○ only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ○ only occur after 6 pm; ○ shall cease by 6 am at all times; and ○ be limited to no more than 30 days discharge in the months of December through to March <p>ii During flows between ½ median to median:</p> <ul style="list-style-type: none"> • Discharge volumes will be limited to 3,000m³ during any 24 hour period; • The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; <p>iii During flows between median to 3 x median:</p> <ul style="list-style-type: none"> • Discharge volumes will be limited to 5,000m³ during any 24 hour period, • The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide;
21 56	<p>Within five years of the commencement date of this consent, the Consent Holder must prepare a 'System Review Data Report' including but not limited to:</p> <p>(a) works undertaken to reduce inflow and infiltration;</p> <p>(b) A summary of changes that have been made to the wastewater treatment plant and details of changes proposed;</p> <p>(c) An analysis of discharge volume and river flow and tidal conditions, and opportunities to lessen the frequency of any discharges below 3 x median flow;</p> <p>(d) The dates and river flow conditions of when any overflow discharges occurred from the pump stations or outlet overflow, and a commentary around how works undertaken to reduce inflow and infiltration have reduced the frequency of overflow discharges. This should include an analysis of any trends in discharge frequency and action proposed to be taken to further reduce overflows;</p> <p>(e) A summary of irrigation systems that have been considered, <u>installed, operate</u> and plans or opportunities to increase the irrigation areas up to 150 ha in the next 5 years;</p> <p>(f) A summary of storage sizes, locations, and designs that have been considered, <u>installed, operate</u> and plans or opportunities to increase the storage volume up to an additional 10,000 m³ 5 years from commencement date of this consent; and</p> <p>(g) key contributions made to improve the quality of freshwater within the wider Wairoa River Catchment.</p> <p>(h) Funding sources investigated to assist with wastewater system improvements.</p>	<p>HBRC</p> <p>Malcolm: edited € and (f)</p> <p>Shane: [Re clause (Ab)] Can changes be made to the certified design? Is recertification required?</p> <p>Nick: edited (Ab) and inserted new (Ac)</p>	<p>The measurement of sludge solids in the WWTP ponds is an operational matter that is checked every few years. It does not need to be a consent condition.</p>		<p>(Ab) Any changes to the filtration and UV treatment system;</p> <p>(Ac) The availability of any other alternative discharge and/or treatment options;</p> <p>(Ad) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered;</p> <p>(Ae) The likely storage requirements for implementation of each discharge option; and</p> <p>(Af) Updates to the Catchment Enhancement Programme Plan.</p>

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	<p>The data must be provided in a manner to facilitate discussion on the options available at the time to reduce the volume of wastewater that needs to be discharged to the Wairoa River by considering the following:</p> <p>(Aa) The feasibility of and methods to amend the discharge regime so that:</p> <ul style="list-style-type: none"> iv During flows less than ½ median: <ul style="list-style-type: none"> • Discharge volumes will be limited to 1,600m³ during any 24 hour period, • The discharge will: <ul style="list-style-type: none"> ○ only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ○ only occur after 6 pm; ○ shall cease by 6 am at all times; and ○ be limited to no more than 30 days discharge in the months of December through to March v During flows between ½ median to median: <ul style="list-style-type: none"> • Discharge volumes will be limited to 3,000m³ during any 24 hour period; • The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; vi During flows between median to 3xmedian: <ul style="list-style-type: none"> • Discharge volumes will be limited to 5,000m³ during any 24 hour period, • The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; <p><u>(Ab) Any improvements to the filtration and UV treatment system, and subsequent re-certification process;</u></p> <p><u>(Ac) Measurement of the volume of solids accumulated in the treatment plant ponds, and actions required to reduce this volume so that treatment performance is not impaired;</u></p> <p>(Ad) The availability of any other alternative discharge and/or treatment options;</p> <p>(Ae) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered;</p> <p>(Af) The likely storage requirements for implementation of each discharge option; and</p> <p>(Ag) Updates to the Catchment Enhancement Programme Plan.</p>				

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22 57	<p>Within ten years of the commencement date of this consent, and on a ten <u>year</u> basis thereafter, the Consent Holder must prepare further 'System Review Data Reports' that provide data in relation to the matters referred to in Condition 56(a)-(g) to facilitate discussion on:</p> <p>(a) Methods to increase storage as follows:</p> <ul style="list-style-type: none"> i To 50,000-100,000m³ as part of the first 10 year review ii To 200,000-400,000m³ as part of the second 10 year review <p>(b) The feasibility of the application of wastewater to land, with the view of this involving:</p> <ul style="list-style-type: none"> i up to 300ha as part of the first 10 year review ii up to 600ha as part of the first 10 year review <p>(c) The feasibility of and methods to amend the discharge regime:</p> <ul style="list-style-type: none"> i As part of the first 10 year review so that: <ul style="list-style-type: none"> • During flows less than ½ median there is no discharge to the river, • During flows between ½ median to median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 3,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ○ only occur after 6 pm; and ○ shall cease by 6 am at all times • During flows between median to 3 x median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 5,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ii As part of the second 10 year review so that: <ul style="list-style-type: none"> • During flows less than the median there is no discharge to the river, • During flows between median to 3 x median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 5,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; 	<p>HBRC</p> <p>Nick: edited (d) and inserted new (e)</p>	<p>Reject suggestions for (d) and (e) for the same reasons as for Condition 56 above.</p>	54	<p>Within ten years of the commencement date of this consent, and on a ten <u>year</u> basis thereafter, the Consent Holder must prepare further 'System Review Data Reports' that provide data in relation to the matters referred to in Condition 56 <u>53</u>(a)-(g) to facilitate discussion on:</p> <p>(a) Methods to increase storage as follows:</p> <ul style="list-style-type: none"> i To 50,000-100,000m³ as part of the first 10 year review ii To 200,000-400,000m³ as part of the second 10 year review <p>(b) The feasibility of the application of wastewater to land, with the view of this involving:</p> <ul style="list-style-type: none"> i up to 300ha as part of the first 10 year review ii up to 600ha as part of the first 10 year review <p>(c) The feasibility of and methods to amend the discharge regime:</p> <ul style="list-style-type: none"> i As part of the first 10 year review so that: <ul style="list-style-type: none"> • During flows less than ½ median there is no discharge to the river, • During flows between ½ median to median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 3,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ○ only occur after 6 pm; and ○ shall cease by 6 am at all times • During flows between median to 3 x median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 5,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ii As part of the second 10 year review so that: <ul style="list-style-type: none"> • During flows less than the median there is no discharge to the river, • During flows between median to 3 x median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 5,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide;

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	<ul style="list-style-type: none"> ○ only occur after 6 pm; and ○ shall cease by 6 am at all times <p>(d) Any changes-improvements to the filtration and UV treatment system; <u>and subsequent recertification process;</u></p> <p>(e) <u>Measurement of the volume of solids accumulated in the treatment plant ponds, and actions required to reduce this volume so that treatment performance is not impaired;</u></p> <p>(d)(f) The availability of any other alternative discharge and/or treatment options;</p> <p>(e)(g) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered;</p> <p>(f)(h) Updates to the Catchment Enhancement Programme Plan</p>				<ul style="list-style-type: none"> ○ only occur after 6 pm; and ○ shall cease by 6 am at all times <p>(d) Any changes to the filtration and UV treatment system;</p> <p>(e) The availability of any other alternative discharge and/or treatment options;</p> <p>(f) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered; and</p> <p>(g) Updates to the Catchment Enhancement Programme Plan.</p>
	System Improvement Plans				System Improvement Plans
23 58	<p>Within 6 months of the System Review Data Reports being provided to the Stakeholder Group, the Consent Holder must prepare, in consultation with the MWWP and Stakeholder Group, and submit to the Council, a 'System Improvement Plan' that sets out:</p> <ul style="list-style-type: none"> (a) Details improvements and/or changes to be made to the wastewater treatment and discharge system over the period to the next review to implement tikanga Māori and to improve the mauri of the Wairoa River; (b) Inclusion of the Wastewater Network Infiltration Management Plan, including further details on works undertaken to reduce inflow and infiltration; (c) Details of improvements and/or changes to be made to the Wastewater Treatment System over the period to the next review to reduce the volume of wastewater that needs to be discharged to the Wairoa River; (d) Clear reasons why those changes are being made (including views of the Wastewater Stakeholder Group on the changes proposed); <p>Where agreement of the Group is reached on specific matters and actions, this shall be reflected in proposed actions included in the final Systems Improvement Plan. Should consensus and preference not be reached, or the consent holder does not support the Group's preference, this difference shall be documented in the Systems Improvement Plan with an explanation of the outstanding position and/or difference and the Consent Holders alternative proposal where needed.</p> <ul style="list-style-type: none"> (e) An indicative work programme setting out steps necessary to implement changes proposed; (f) A summary of updates to the Catchment Enhancement Plan 		<p>No feedback received. No change proposed except for minor definition amendments.</p> <p>Minor changes to reflect changes made elsewhere - consistency</p>	55	<p>Within 6 months of the System Review Data Reports being provided to the Stakeholder Group, the Consent Holder must prepare, in consultation with the MWWP and Stakeholder Group, and submit to the Council <u>Manager</u>, a 'System Improvement Plan' that sets out:</p> <ul style="list-style-type: none"> (a) Details <u>of</u> improvements and/or changes to be made to the wastewater treatment and discharge system over the period to the next review to implement tikanga Māori and to improve the mauri of the Wairoa River; (b) Inclusion of the Wastewater Network Infiltration Management Plan, including further details on works undertaken to reduce inflow and infiltration; (c) Details of improvements and/or changes to be made to the Wastewater Treatment System over the period to the next review to reduce the volume of wastewater that needs to be discharged to the Wairoa River; (d) Clear reasons why those changes are being made (including views of the Wastewater Stakeholder Group on the changes proposed); <p>Where agreement of the <u>Wastewater Stakeholder</u> Group is reached on specific matters and actions, this shall be reflected in proposed actions included in the final Systems Improvement Plan. Should consensus and preference not be reached, or the consent holder does not support the <u>Wastewater Stakeholder</u> Group's preference, this difference shall be documented in the Systems Improvement Plan with an explanation of the outstanding position and/or difference and the Consent Holders alternative proposal where needed.</p> <ul style="list-style-type: none"> (e) An indicative work programme setting out steps necessary to implement changes proposed; (f) A summary of updates to the Catchment Enhancement Plan

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	Wastewater Monitoring Strategy				Wastewater Monitoring Strategy
24 59	<p>Within 12 months of submitting the 'System Improvement Plans' required by Condition 58 to the Council, the Consent Holder may submit to the Council for certification a Wastewater Monitoring Strategy (WMS) or amendments to an existing WMS. The WMS shall:</p> <p>(a) Be prepared by a suitably qualified and experienced, independent expert/s <u>(cultural experts included)</u>;</p> <p>(b) Outline the monitoring that the consent holder will undertake to assess the effects of the discharge.</p> <p>(b)<u>(c) If the WMS potentially supercedes conditions above related to mauri monitoring then must engage with the body representing tangata whenua</u></p> <p>Within two months of receiving the Wastewater Monitoring Strategy the Council must advise, in writing, the consent holder whether or not they have certified the WMS.</p> <p>(a) If the Council refuses to certify the WMS it must advise the consent holder why this view is held. The consent holder shall resubmit a revised WMS to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the WMS.</p> <p>(b) If the Council certifies the WMS the consent holder shall immediately commence the monitoring set out in the WMS (at the frequencies stated in the WMS).</p> <p>Advice Note: For clarity, the monitoring set out in the Wastewater Monitoring Strategy may supersede the monitoring required by Conditions 12 to 25.</p>	SS	<p>WDC comments:</p> <p>(a) Cultural monitoring is separate to the condition requirements here, so reject. Is included elsewhere - Conditions 27-28.</p> <p>(c) is not needed as cultural monitoring protocols and report is standalone (subset) and will not be modified unless the group managing the monitoring changes the protocols.</p>	56	<p>Within 12 months of submitting the 'System Improvement Plans' required by Condition 58 <u>55</u> to the Council, the Consent Holder may submit to the Council <u>Manager</u> for certification a Wastewater Monitoring Strategy (WMS) or amendments to an existing WMS. The WMS shall:</p> <p>(a) Be prepared by a suitably qualified and experienced, independent expert/s,</p> <p>(b) Outline the monitoring that the consent holder will undertake to assess the effects of the discharge.</p> <p>Within two months of receiving the Wastewater Monitoring Strategy the Council must advise, in writing, the consent holder whether or not they have certified the WMS.</p> <p>(a) If the Council refuses to certify the WMS it must advise the consent holder why this view is held. The consent holder shall resubmit a revised WMS to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the WMS.</p> <p>(b) If the Council certifies the WMS the consent holder shall immediately commence the monitoring set out in the WMS (at the frequencies stated in the WMS).</p> <p>Advice Note: For clarity, the monitoring set out in the Wastewater Monitoring Strategy may supersede the monitoring required by Conditions 12 <u>9 to 25</u> <u>24</u>.</p>
24 59	<p>Within 12 months of submitting the 'System Improvement Plans' required by Condition 58 to the Council, the Consent Holder may submit to the Council for certification a Wastewater Monitoring Strategy (WMS) or amendments to an existing WMS. The WMS shall:</p> <p>(c) Be prepared by a suitably qualified and experienced, independent expert/s,</p> <p>(d) Outline the monitoring that the consent holder will undertake to assess the effects of the discharge.</p> <p>Within two months of receiving the Wastewater Monitoring Strategy the Council must advise, in writing, the consent holder whether or not they have certified the WMS.</p> <p>(c) If the Council refuses to certify the WMS it must advise the consent holder why this view is held. The consent holder shall resubmit a revised WMS to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the WMS.</p> <p>(d) If the Council certifies the WMS the consent holder shall immediately commence the monitoring set out in the WMS (at the frequencies stated in the WMS).</p> <p>Advice Note: For clarity, the monitoring set out in the Wastewater Monitoring Strategy may supersede the monitoring required by Conditions 12 to 25.</p>	<p>HBRC</p> <p>Shane: I'm not sure what the purpose of this is and it doesn't seem to be an actual requirement anyway. Why is it included?</p> <p>Malcolm [re advice note]: Check what this would mean. As with Shane I'm not sure what this condition intends especially if this is a "may" Jack's comment - This would require a change of conditions?</p>	<p>WDC notes that this is to set out and bring together the monitoring to be undertaken and have the methodology and proposed monitoring regime approved by HBRC.</p> <p>The requirement for certification has been removed as it is now covered by a new generic condition 26 as suggested by HBRC.</p>		

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	COMPLAINTS				COMPLAINTS
46 60	<p>The Consent Holder must maintain and make available to Council on request, a record of complaints which lists all complaints received alleging adverse effects attributable to the Activities. The record must include but not be limited to the following:</p> <ul style="list-style-type: none"> (a) Name, address and contact details of the complainant (if given); (b) The nature and duration of the alleged effect; (c) The date and time the alleged effect was detected; (d) The location where the alleged effect was detected; (e) The prevailing river and weather conditions e.g. flow rate, river mouth status, wind speed and direction; (f) Description of the Activities occurring at the time of the complaint; (g) Description of investigations carried out to investigate the complaint and their outcomes; (h) The likely cause of the effect (if detected under (f)); (i) Any measures taken to avoid, remedy or mitigate the effect (if detected under (f)) and its reoccurrence; and <p>Details of the follow up undertaken to inform the complainant of the actions taken in response to the complaint and the outcomes of the investigations.</p>		No feedback received. No change proposed.	57	<p>The Consent Holder must maintain and make available to Council on request, a record of complaints which lists all complaints received alleging adverse effects attributable to the Activities. The record must include but not be limited to the following:</p> <ul style="list-style-type: none"> (a) Name, address and contact details of the complainant (if given); (b) The nature and duration of the alleged effect; (c) The date and time the alleged effect was detected; (d) The location where the alleged effect was detected; (e) The prevailing river and weather conditions e.g. flow rate, river mouth status, wind speed and direction; (f) Description of the Activities occurring at the time of the complaint; (g) Description of investigations carried out to investigate the complaint and their outcomes; (h) The likely cause of the effect (if detected under (f)); (i) Any measures taken to avoid, remedy or mitigate the effect (if detected under (f)) and its recurrence; and (j) Details of the follow up undertaken to inform the complainant of the actions taken in response to the complaint and the outcomes of the investigations.
	REVIEW				REVIEW
61	<p>The Regional Council may annually during the month of May review the conditions of the consent in accordance with Sections 128, 129, 130, 131 and 132 of the Resource Management Act 1991 for the following purposes:</p> <ul style="list-style-type: none"> a) To address any adverse effect on the receiving environment that can be reasonably attributed to the Activities which may arise from the exercise of the resource consent and which is appropriate to deal with at a later stage. b) To modify the monitoring programme required by the resource consent or require additional monitoring if there is evidence that the current monitoring requirements of the resource consent are inappropriate or inadequate. c) To modify the reporting requirements of the resource consent if there is evidence that the current reporting requirements of the resource consent are inappropriate or inadequate. d) To address any new regional or national rules, standards, or regulations relating to freshwater and/or coastal water management. 		No feedback received. No change proposed.	58	<p>The <u>Hawke's Bay</u> Regional Council may annually during the month of May review the conditions of the consent in accordance with Sections 128, 129, 130, 131 and 132 of the Resource Management Act 1991 for the following purposes:</p> <ul style="list-style-type: none"> (a) To address any adverse effect on the receiving environment that can be reasonably attributed to the Activities which may arise from the exercise of the resource consent and which is appropriate to deal with at a later stage. (b) To modify the monitoring programme required by the resource consent or require additional monitoring if there is evidence that the current monitoring requirements of the resource consent are inappropriate or inadequate. (c) To modify the reporting requirements of the resource consent if there is evidence that the current reporting requirements of the resource consent are inappropriate or inadequate. (d) To address any new regional or national rules, standards, or regulations relating to freshwater and/or coastal water management.