

Welcome / Introductions

Kapiti Coast

DISTRICT COUNCIL

Today's Agenda

- 1. Welcome / Introductions / Apologies
- 2. Agenda Overview

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- 3. Matters arising since previous meeting
- 4. Review of resource consent compliance
- 5. Proposed changes to activities
- 6. CLG feedback on compliance report
- 7. Other feedback
- 8. Other matters
- 9. Next meeting



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Matters arising since previous meeting



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LDTA upgrades

- Bulk earthworks, lateral upgrades, planting of LDTA to address DRP issue.
- Resource consent from KCDC obtained.
- Several resource consents required from GWRC.
- · Outstanding concerns include:
 - potential contamination from earthworks
 - potential for spray drift from irrigators.



Publishing annual reports

- Commenced the process of publishing annual reports online.
- · Will circulate link to CLG members.







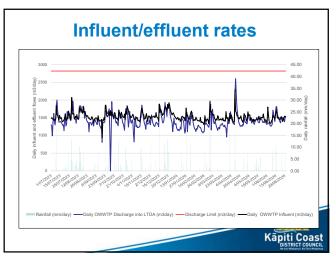


Resource consent compliance

KCDC compliant with all consent conditions except:

Resource consent condition	No.	Compliance
Wet weather storage capacity	11	•
Treated effluent standards:		
• NH4-N	17(d)	•
Performance and maintenance of the		
distribution system:		
Maintenance of infiltration discharge area	24	•
Incident notification	42	•

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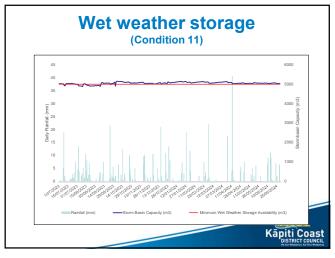
Wet Weather Storage

(Condition 11)

- Consent requires 5,000m3 of wet weather storage capacity at the
- WWTP storm flow buffer is 5,200m3.

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- Pond historically maintained with a minimum of 10% volume for "residual material" (e.g. treated WW and rainwater) to prevent liner being displaced.
- Has resulted in a reduced capacity of 4,700m3.
- In Q1, Council updated so no more than 200m3 residual material in pond, maintaining 5,000m3 required.
- Council compliant in Q2-Q4 following mitigation measures.
- Additional upgrades to manage increased flows, including desludging oxidation ponds & aeration lagoon.
- Wastewater network simulation model is being verified and updated and will report the revised dry & wet weather inflow to the plant considering the projected population growth to 2054. Kāpiti Coast



Ammoniacal Nitrogen • Limits for NH4N: (Condition 17(d)) - Limit 1: 23g/m3 for more than 8/12 rounds

- Limit 2: 30g/m3 for more than 2/12 rounds



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Ammoniacal Nitrogen

(Condition 17(d))

- · Seasonal patterns:
 - NH4N levels in oxidation ponds typically elevated in winter months (slow biological activity increases ammonia)
- Works at OWWTP:
 - Feb 2023: Desludging aeration lagoon (lower biological treatment during works)
 - Feb 2024: Replaced inlet screen (higher organic load during works)
- Proposed works to upgrade aerators



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Distribution system (Condition 24)

- · Minimal standards for distribution system, including uniformity, coverage and ponding.
- Could required to apply effluent to >75% of LDTA; Council estimates approx. 30%
- Distribution laterals causing ponding and erosion, inefficient distribution.
- Could be contributing to DRP downstream.

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Distribution system (Condition 24)

Distribution system

(Condition 24)

- Proposed improvements:
 - Earthworks on LDTA
 - Upgrading laterals to a sprinkler system with close to 100% coverage
 - Further LDTA planting



Incident response & notification (Condition 42)

Technical non-compliance only.

 We are updating our systems, so we get an alert notification of any consent compliances (currently reported in quarterly reporting).



Compliant conditions

- Within maximum discharge rates.
- Compliance with all treated effluent standards, except NH4N.
- · Odour management.
- · LDTA planting and perimeter planting.
- · Fencing & signage.
- · Iwi consultation / CLG.



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GWRC 2023/24 Compliance Assessment

Provided at the meeting.



Proposed changes to activities



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Projects undertaken in 2023-24

- Inlet screen replacement (increased capacity)
- Investigations & consenting for LDTA upgrades
- Trial of new sprinkler system
- Coordinating planting plan with Ngā Hapū o Ōtaki



Projects proposed for 2024-25

- LDTA upgrade works (earthworks and lateral upgrades)
- · Bulk planting of the LDTA
- Concrete sealing of the base of the aeration lagoon
- Upgrading the aerators in the aeration lagoon



Inlet screen replacement Flow parameter 3,000 m3/d 1,850 **Average Dry Weather Flow (ADWF)** 23 34 I/s m3/d 10,400 11,200 Peak Wet Weather Flow (PWWF) L/s 130 160 Peak Instantaneous Flow (PIF) 120 185 Kāpiti Coast



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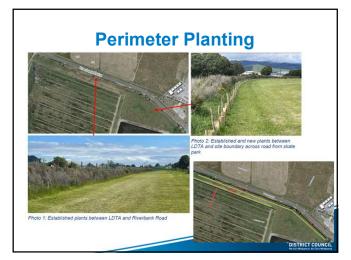
Proposed mitigations

- Install a weather monitor on site to record wind speeds and directions to integrate into SCADA system for automatic isolation/interlocking of select cells during higher-wind conditions.
- Only use cells 2, 3, 4, 5 during winds 5-10m/s
- Avoid using cells during 10m/s + winds, use cells 3 and 4 if necessary.





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LDTA planting

- Working on planting plan with Ngā Hapū o Ōtaki
- LDTA discharge area to be replanted with grasses with improved nutrient uptake (e.g. rye grass).
- LDTA center bunds to be planted with natives
- · Cut and carry system to be implemented.

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Bulk earthworks

- Consent application currently on hold while we work through technical details
- Investigating alternative options and the viability/suitability of these.
- To report back in 2024-25.



Lining aeration lagoon

- Design complete for the plinth
- · Required isolation of the pond
- Desludging/cleaning
- Geotec assessment before concreting
- Fee proposals received from prospective suppliers
- Required favourable weather window
- · Ideal to do in Jan-Feb



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New aeration system

- Consultation for right spec of the aerators underway.
- Upgrade of aerations system can happen after the concrete ling of the pond.



CLG Feedback/Observations?



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Other CLG Feedback?



Other matters

None to report





Next steps

 Confirm timing for next meeting & any items for discussion.

