Responses to NRC questions on Taipa WWTP consent renewal

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Question	Response
Has FNDC decided on and	No. FNDC is in the process of engaging a consultant to investigate options
committed to an upgrade	to achieve the consent application's proposed discharge parameters.
option to reduce	
ammoniacal nitrogen levels	
in the effluent?	
Is it still FNDC's position	FNDC is in the process of engaging a consultant to investigate options to
that it does not intend to	achieve the consent application's proposed discharge parameters.
upgrade the WWTP by	
including a specific process	
for pathogen disinfection	
(e.g., UV, ozone,	
chlorination)?	The second of the second DIME is 400 and find the second of the second o
Is the dry weather flow still	The current average DWF is 408m3/ day - a fairly consistent rate for the
expected to be 1,570	last few years.
m3/day in 2033, based on a	Therefore the expected flow rate of 1,570 m3/day still stands.
30 day rolling average?	The application is to propose the section of the se
If so, how will the	The application is to renew the existing consent to discharge up to
treatment cope with the	1570m3/day of treated wastewater on an average daily dry weather flow
additional inflow if the	basis.
applicant has decided that	ENDC is in the process of engaging a consultant to investigate entions to
the application will be revised so that the flow will	FNDC is in the process of engaging a consultant to investigate options to achieve the consent application's proposed discharge parameters.
remain at the current	achieve the consent application's proposed discharge parameters.
consented volume of 1,005	
m3/day?	
Is the third aerated	The third aerated lagoon has been in operation since 2013. The aerated
facultative pond in	ponds now run in series with raw influent entering #1 and flowing
operation and has the plant	through system to #2, then #3, before discharging to the main pond.
capacity increased to 1775	With the advent of putting #3 aerobic pond in series, this should be
m3/day?	capable of reaching the flow rate of 1775m3/day. We note that the plant
. ,	will not cope with this loading without an upgrade to reach resource
	consent compliance.
What are the wet weather	The logs indicate the following during significant rain events:
flows during various design	60+ mm rain doubles the flow rate through the plant and can slowly
rainfall events? And how	reduce back to normal dry weather flows within 5 days.
does the treatment plant	100+ mm rain triples the flow rate through the plant. Continuous rain
perform during and after	days will hold the flow rate up high for long periods of time.
the wet weather inflows?	
	The effects on the plant are an increase in PH & DO with a slight
	reduction in NH4 initially then reverting back to our normal NH4 results
	as the infiltration and dilution drops.
Does FNDC know what	as the infiltration and dilution drops. FNDC hypothesizes the following causes of the increased trend of
might be causing the	as the infiltration and dilution drops. FNDC hypothesizes the following causes of the increased trend of ammoniacal nitrogen levels:
might be causing the increasing trend [of	as the infiltration and dilution drops. FNDC hypothesizes the following causes of the increased trend of ammoniacal nitrogen levels: • Sludge volumes impeding treatment processes
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