

FW: Potential Access to ADC WW Network

Ilan Hyde <Ilan.Hyde@adc.govt.nz>

Wed 3/13/2024 12:00 PM

To: Nick Boyes (Core+) <nick@coreplanningandproperty.co.nz>

From: Andrew Guthrie <Andrew.Guthrie@adc.govt.nz>**Sent:** Thursday, February 22, 2024 4:49 PM**To:** Catherine Stuart <catherine@southernparallelsports.com>**Cc:** Neil McCann <Neil.McCann@adc.govt.nz>; Ilan Hyde <Ilan.Hyde@adc.govt.nz>**Subject:** Potential Access to ADC WW Network

Dear Catherine

You have enquired as to the possibility of ADC accepting a treated effluent discharge to our network. This is being explored in tandem to your efforts to obtain a land discharge consent through Environment Canterbury. My understanding based on our discussions is that this is a "fall-back" position should the discharge to land consent be unsuccessful. I indicated that we would be able to give you some undertakings in regard to the treated wastewater disposal from the proposed SPECL site by 23/02/24.

I have now reviewed the information contained in the resource consent application on the Environment Canterbury website and the other collateral you provided. The key aspect to note is that the only network that Council could potentially accept a discharge is our Transfer Pipeline that conveys treated effluent from the Wilkins Road WWTP to the Ocean Farm WWTP. Almost all of the treatment occurs at the Wilkins Road WWTP. As this pipeline conveys treated wastewater, any discharges into it would have to be highly treated.

In order to evaluate if this proposed system could treat wastewater generated at the site to a standard acceptable enough for ADC to receive, we reviewed the discharge quality table supplied within the BioGill proposal. Reproduced below.

Discharge Requirement:

Currently no specification for discharge requirements. Assuming a requirement of the following into the BioGill System:

	Influent	Effluent
Flow	100 kL/day	100 kL/day
BOD	<300 mgBOD/L	<20-50 mgBOD/L
TN	<50 mgTN/L	<30 mgTN/L
TSS	<150-200 mgTSS/L	<30 mgTSS/L
TP	<10 mgTP/L	<10 mgTP/L

We undertook a comparison between the assumed discharge requirements used by BioGill and our effluent quality as received at Ocean Farm WWTP. This comparison is shown in the following table.

Parameter	BioGill Treated Effluent (mg/L)	ADC Treated Effluent (g/m3) (12 month average)
BOD	<20-50	16.0
TN	<30	24.0
TSS	<30	36.0
TP	<10	3.2

This indicates that the system may be capable of producing effluent of the same or better quality than the effluent that passes through the transfer pipeline at least for the parameters noted above. Obviously, any formal discussions on a potential discharge approval would need to explore much wider than the short list of parameters noted here, but I see the potential of the proposed system. I do note however, that the BioGill system is a **secondary** treatment process and would have to be implemented in tandem with a primary treatment step (screening and grit removal) in order to meet the discharge quality expectations. This primary treatment step is an important consideration as it requires more frequent maintenance and generates an ongoing waste stream that would have to be appropriately managed and disposed of by SPECL.

So, at this point I am prepared to provide **approval in principle** of the discharge of the final treated effluent to the ADC Transfer Pipeline in Stranges Road.

This is subject to the following conditions:

- Inclusion of a primary treatment step including screening and grit removal prior to entering the BioGill system.

- Inclusion of filtration and UV treatment following BioGill system.
- Separate engineering approval of the total treatment process and supporting management systems to the satisfaction of the Group Manager – Infrastructure and Open Spaces.
- Payment of all Council fees and charges applicable at that time.

I trust this will assist in progressing your applications in the short term.

Regards,

Andy Guthrie

From: Catherine Stuart <catherine@southernparallelcampus.nz>

Sent: Tuesday, February 20, 2024 6:05 PM

To: Andrew Guthrie <Andrew.Guthrie@adc.govt.nz>

Subject: Re: BioGill Ultra Video

Hi Andrew

Many thanks for your time today, please find as promised the BioGill Ultra video – the same system SPEC will install.

<https://www.youtube.com/watch?v=HPPakcQ8MVw>

Kind regards

Catherine



Catherine Stuart

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