

From: Stuart Pile <Stuart.Pile@qldc.govt.nz>
Sent: Wednesday, 18 April 2018 5:28 PM
To: Andrew Tipene
Subject: RE: RE: Hawea - Potential New Subdivision

Hi Andrew

Our CAPEX programme for Hawea has significant monies attributed to the management of wastewater from this scheme which continues to be a challenge for QLDC.

At present we have a non compliant wastewater treatment plant which is simply not fit for purpose. We have undertaken a business case which, at present, has the preferred option looking like a new pump system and pipeline that would convey sewage to our Project Pure WWTP. This project would involve construction of a 12km pipeline which would follow legal roads and easements for the vast majority of its length. A new bridge is hoped to be built over the River Clutha that would support our pipeline. This option aligns with our strategy for centralised wastewater management rather than the continued operation of smaller plants. It should be noted that Luggate will also be connected into the P Pure treatment plan.

LTP funding to support this project is as follows;

PROJECT PURE UPGRADES & DEVELOPMENT			2017/18	2018/19	2019/20	2020/21	2021/22	2022
SCREEN UPGRADES	New duty / standby screening system to increase screen capacity	CP 0560	\$ 699,843					
CENTRIFUGE UPGRADE	New duty / standby centrifuge system	CP 6284		\$ 416,000				
PPURE CAPACITY UPGRADE DESIGN	Design for new third SBR tank installation	CP 6284			\$ 530,000			
PPURE CAPACITY UPGRADE	Construction and commissioning	CP 6284				\$ 2,385,000	\$ 2,385,000	
INSTALL FOG TREATMENT FACILITY AT P PURE	Design and construction	CP 6667			\$ 500,000	\$ 600,000		
HAWEA WASTEWATER SERVICING			2017/18	2018/19	2019/20	2020/21	2021/22	2022
ENABLING WORKS: PLANNING & CONSENTS	River Clutha pipe bridge	CP 0554 / NEW8						
DESIGN	Full pumping system design (WWPS & pipeline)	CP 4036		\$ 704,875				
CONSTRUCTION	12km pipeline from Hawea to P Pure (inc over River Clutha)	CP 4036			\$ 1,799,375	\$ 1,799,375		

In terms of capacity, it is well timed that we are made aware of future developments now so that we can size our trunk infrastructure accordingly. It should also be noted that in order for the P Pure plant to receive this additional load, capacity upgrades shall be required here also. Hence I also have included the upgrades planned for our Project Pure wastewater treatment plant.

Water supply

The Hawea Bore Pump Station and Treatment Plant was constructed in 2014/15 and includes four bores and a treatment facility that includes chlorination and UV. The bores were sized to allow for larger pumps and any new housing development of significant size would likely result in us looking at pump upgrade. We have also recognised the network improvements that could be made in Hawea so funding also sits in the CAPEX programme for this also. The Hawea water supply improvements are as follows;

HAWEA WATER SUPPLY			2017/18	2018/19	2019/20	2020/21	2021/22
1.0	SUPPLY UPGRADES						
1.1	WTP UPGRADE	Possible filtration barrier at WTP	CP 5200	\$ 210,000			
1.2	NETWORK UPGRADES	Upsize Caples Ave section of watermain	CP 6027	\$ 241,500	\$ 65,138		
1.3	NETWORK OPTIMISATION	Placeholder funding for supply upgrades	CP 6983	\$ 250,000	\$ 250,000		

We intend to commence master planning for Hawea in the next 3 – 6 months. This will aim to determine what reservoir capacity and other trunk improvements need to be made to support future growth. Our intention here being that we would then revise and allocate more CAPEX funding in the 2021 LTP – allowing us to leverage DC's off relevant parties.

I hope this helps

Stuart

----- Forwarded Message -----

From: Andrew Tipene <Andrew.Tipene@qldc.govt.nz>

To: Lane Hocking <lane.hocking@yahoo.com>; Ulrich Glasner <Ulrich.Glasner@qldc.govt.nz>

Sent: Friday, March 23, 2018, 3:40:16 PM GMT+13**Subject:** RE: Hawea - Potential New Subdivision

Hi Lane, I can't advise you on the suitability for HIF funding and believe it has now been fully allocated.

I suggest submitting your SHA EOI to get things started. We are 2+ years away with water and wastewater upgrades and there would be good synergies for Council Infrastructure funding and this new development.

At this stage your EOI can assume the future water and wastewater upgrades are sufficient to support your development. Regards, Andrew

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