

4. CHRISTCHURCH WASTEWATER TREATMENT PLANT UPGRADE TRICKLING FILTER PUMP STATION 'B'

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Corporate Plan Output: Liquid Waste Asset Improvements	

The purpose of this report is to seek the Committee's agreement to a negotiated contract for the civil construction works for the Trickling Filter Pump Station B.

INTRODUCTION

The next major stage of the upgrade works at the Christchurch Wastewater Treatment Plant is the construction of a second trickling filter pump station to increase the hydraulic capacity of the filters and to provide flexibility for maintenance and future upgrading of the existing pump station in the main engine room.

This work was originally programmed to start in 2001/2002 but the City Services Committee has recommended to the Strategy and Resources Committee that the \$1.6m on the budget be brought forward to the current year to allow this work to start as soon as possible. This request was considered at the September meeting of the Strategy and Resources Committee which has recommended to the Council that the requested capital funding be brought forward.

The work has become necessary as the bearing in the No 2 Filter has become very tight and failure of this bearing prematurely will cause significant odour and unnecessary expense that can be avoided if the Pump Station B work (which the bearing replacement will follow) is completed before it fails.

WORK REQUIRED

The works involved in Pump Station B includes civil construction of the pump station building and wet well which has been designed to be a part of the new sludge thickening and electrical control building currently being constructed by Downers. Further there is underground piping to be connected to existing feed pipes to the trickling filters and a by pass line to the new solids contact tanks. An important part of the work is the connection of the existing feed channels to the new pumping station. This part of the work is critical as it has to be done quickly to avoid overload of the ponds and it must be done during a low flow period (February-March). It is for the work above that agreement is sought to seek a negotiated contract. This part of the work is estimated at \$400,000.

The other major elements of the Pump Station B are the procurement of the pumps, valves and penstocks that will be purchased separately and installed by the chosen contractor (as part of the negotiated work).

OPTIONS FOR COMPLETING CIVIL WORKS

There are three options:

Negotiating with an existing on site contractor

Extension of one of the existing contracts with an on site contractor

Tendering the work

Because of the critical nature of the work, that it needs to be fact tracked and the need to have it carried out by a contractor experienced in the Christchurch Wastewater Treatment Plant site processes, option 3 above is not favoured. The strongly favoured option is to negotiate a contract with G & T Construction who have proved to be highly capable and knowledgeable in the existing Clarifier contract. In addition they have offered to reduce their rates somewhat below those previously tendered. This firm also performed extremely well on another contract (new screen installation). For those reasons it is recommended that a negotiated contract be awarded to G & T Construction on rates less than those previously tendered in the current clarifier contract.

SUB COMMITTEE RECOMMENDATION

At its meeting on 8 August 2000 the City Services Committee appointed a subcommittee consisting of the Chairman and Councillors David Close and Ron Wright to consider options for awarding a construction contract for the work. The subcommittee met on 5 September 2000 and recommended:

“That the staff negotiate a contract with G and T Construction for the Trickling Filter Pump Station B, subject to negotiated cost savings on previously tendered rates.”

Recommendation: That staff negotiate a contract with G and T Construction for the Trickling Filter Pump Station B, subject to negotiated cost savings on previously tendered rates.