



## Summer Village of Ma-Me-O Beach

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### STEP Pump Installation / Connection Summary

Dec 20, 2017

#### STEP Pump Installation

MPE engineering has specified the use of the Orenco pump system which will be installed for all users. This pump system was selected based on reliability and performance history. The pumping package includes the STEP pump, switches, filter, biotube, discharge piping, valves and fittings as well as a control panel.

The required pump is a 1/2 HP Orenco PF100511CV stainless steel and engineered plastic pump complete with a check valve. The biotube vault comes with a filter tube, discharge piping, and floats. The pump float switch assembly provides pump on/off control and low/high level alarms. The MVP control panel provides control functions, and an audible and red lens visible alarm.

In addition, there is a heat trace system with thermocable controller.

Your certified installer has been provided with detailed specifications for the installation of this equipment on your property.

Note that this STEP system has been designed for use with two chamber, two riser, holding tanks. If you have a single compartment tank, a secondary chamber will be installed next to your existing tank to be used as the second compartment. Your installer will be able to assess your situation and provide alternatives to you.

#### Electrical Connection Requirements

The pump will need a 115V 20 AMP single phase power supply. The pump control panel and the Thermocable controller each need 115V-15 AMP power supplies. The control panel shall be located with 15m of the pump motor and be provided with a lockable disconnect.

The engineering design recommends separate circuits for each of the three functions above to ensure that if one has a problem the others will continue to function. That is, if the pump fails you will still want the high level alarm to sound and the heat tracing to continue working. If your home distribution panel does not have space for three circuits, then a single breaker could be used to feed a sub-panel with the required circuit breakers. How this can best be managed on your property will be determined by the electrician who installs the service for you.

#### Getting Connected

The Office looks after the Development Permits for the work on your lot. A list of property owners working with the Resident Group will be automatically provided with Development Permits for this work based on the Resident Group list. The Administrative Office will forward copies of these permits to Superior Safety Codes so that they may issue the electrical and plumbing permits to the contractors for the work on your property.

If you are working independently from the Resident Group, you will need to fill out a Development Permit application at the office. The fee for this permit has been waived by Council. Administration will then send that permit to Superior so that they may issue the electrical and plumbing permits to your contractors.

Following installation and inspection by Superior Safety Codes, you will be required to sign a service agreement which sets out the responsibilities of the Summer Village and the property owner. Once this document is complete, your isolation (cc) valve will be opened and you will become active on the system.

Operating costs are expected to remain about the same as they have been in the past few years and will continue to be sent out with the tax notices.