



### **Alnwick Street E/ONE Retrofit**

For the past two years residents in Alnwick Street Warkworth have battled with the performance of their Septic Tank Effluent Pumping system (STEP systems).

The issues:

- Odours from septic tanks.
- Solids getting past biofilters and into pump chamber resulting in pump failure, pumps were not designed to handle solids.
- Centrifugal pumps not able to accommodate fluctuating pressures when multiple houses pumping simultaneously.
- Overflows from frequent pump failures.
- Annual sucking out of sludge from septic tank and ongoing maintenance costs.

Rodney District Council aware of the issues made the call to rectify the problem. Ecoflow Ltd were contracted to install E/One Extreme series grinder pump systems. The job involved modifying the pump chamber of the STEP systems to incorporate the E/One grinder pumps, then modifying the drainage to bypass the septic tanks diverting all wastewater including solids into the pump chambers. Following this the original septic tanks were decommissioned and filled in.

The major difference being:

- All solids are now pumped off site to the treatment plant for proper treatment, this has eliminated the septic tank and the odours.
- E/One grinder pump deals with solids effortlessly.
- E/One grinder pump being semi positive displacement can accommodate wild fluctuations in pressure when multiple house operating simultaneously.
- No annual preventative maintenance or sucking out of tank required.

The result:

Alnwick street residents are now thrilled with their new odourless, quiet and reliable grinder pump systems.