

SLP GW System

- The BGWS version 1.1 System 1. All water used in our system is gathered via the re-plumbing of the bath, shower, basins, washing machine and preparation sinks.
2. The water used flows with the help of gravity in 50mm PVC pipes from the whole dwelling to a central manifold where all piping is then connected. The manifold allows for easy management of the water going into the filtration system and also provides a siphon node for ventilation of the drainage system.
 3. The water passing through the manifold goes onto our filter system which will provide the removal of coarse debris and finer particles such as hair and soap build up. The filter unit is easily accessible so as to allow for maintenance of the filters inside.
 4. 'The Bio-Systems SA Grey Water Additive' is of utmost importance at this point as it helps in the filtering of the water and in the storage process. Small dosages of the bacteria can also be added to all relevant drains as it will help in the control of odours in the drainage system.
 5. The water now enters the storage tank. Tank sizes are calculated in the design consultation process and are relative to the client's needs and volumes of grey water produced. Please note: In certain applications 150 litre transfer tanks may have to be used to gather the water via gravity before pumping to the main storage tank.
 6. Management of stored grey water is highly important as bacterial growth is imminent. Non-management of stored grey water will result in anaerobic conditions. This is why we utilize 'The Bio-Systems SA Grey Water Additive' bacteria. These bacteria, of which you will add a level tsp every week, remove much of the COD, emulsified fatty substances, and prevent anaerobic conditions, putrefaction & rotting, thereby controlling the formation of odours. The result is re-usable water that is relatively 'clean' and does not smell.
 7. To prevent anaerobic conditions the system is fitted with an infusion aerator unit. This unit comprises of an imported venturi kit working on a daily timed recirculation process. The time that this system operates is specific to each system installed as it is dependent on storage volumes.
 8. The pump house consists of a design specific pump and control unit, aerator unit and weatherproof electrical unit. The pump in the system controls both the recirculation process and irrigation.
 9. Although drip irrigation systems are recommended for grey water the SLP system can be connected to various existing or new irrigation systems. We have professional partnerships in place to provide these services if necessary.