

### **Contents**





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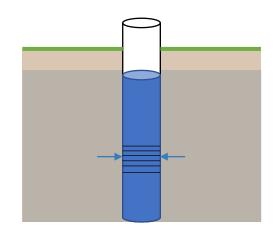


# What is Low Flow Sampling?



Refers to the velocity that water enters the pump intake within the well

- Aim to minimise drawdown of surrounding aquifer
- Pump is placed in the middle of the screened interval
- Water enters the pump intake at the same rate it flows out of the formation





# **Differences**



#### **Low Flow**

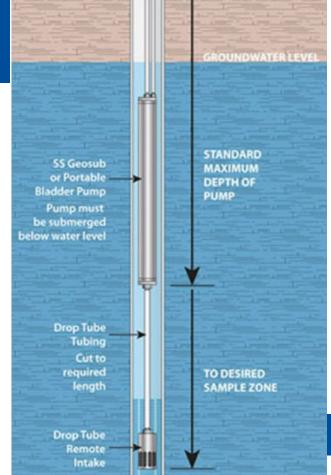
- Robin and Gilham (1987)
  first proposed this method
- 1 well volume
- Uniform method
- Can be used for both low and high yield bores

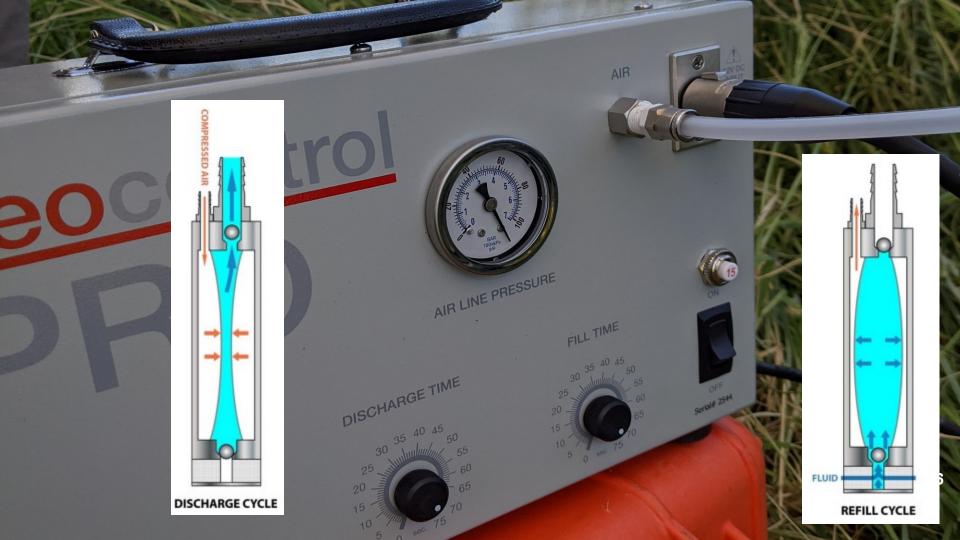
## **Purging**

- Unintended negative consequences for collected samples
- 3 5 well volumes
- Variety of methods
- Not practical for low yielding bores

# **Approach to Sampling**











# **Advantages**



- Reduced need for filtration
- Smaller purging volume
- Improved sample consistency
- Less operator variability
- Ability to plan
- Time efficient





#### **Constraints**



- Set up time
- Initial cost
- Trained personnel
- Bores with water level greater than 50 m require additional equipment
- If screen is blocked, sampling becomes a challenge.



# Value in High Volume Projects



- Large regional scale
- Multiple teams
- High quality sampling data
- Consistent method used across different types of bores
- Ability to plan



# THANKS!

Any questions?



