

# Disinfection

after Rope pump installation

Coffee cup,  $\Omega$ z 80~100g



80~100g

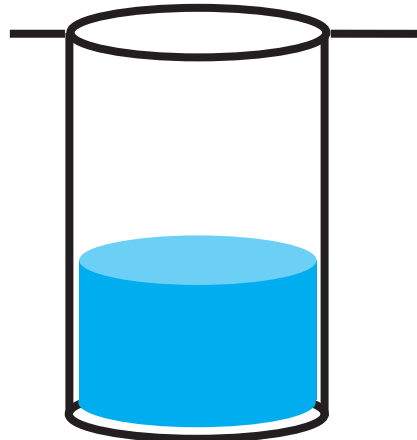
**Calcium Hypochlorite**  
[Ca(ClO)<sub>2</sub>]

Disinfectant, Chlorine

Target Chlorine  
**50 ~ 100** mg/L (ppm)

Low Turbidity

High Turbidity



Well water

Well water volume → Times of cup,  $\Omega$ z

1 M<sup>3</sup>(ton) → 1~1.5 cups  $\Omega$ z

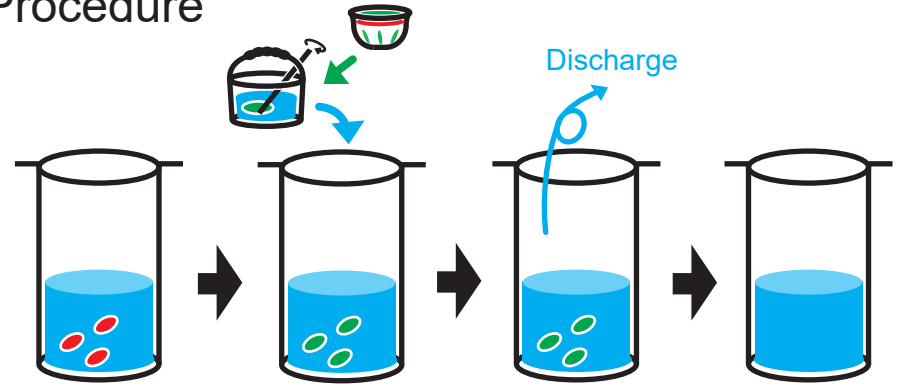
2 M<sup>3</sup>(ton) → 2~3 cups  $\Omega$ z

3 M<sup>3</sup>(ton) → 3~4.5 cups  $\Omega$ z

4 M<sup>3</sup>(ton) → 4~6 cups  $\Omega$ z

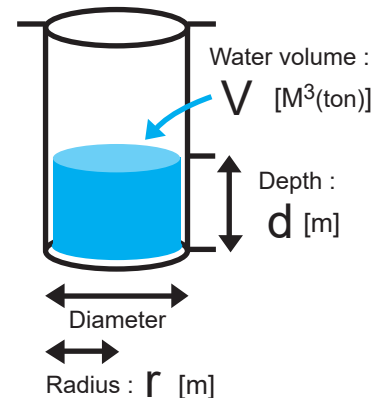
5 M<sup>3</sup>(ton) → 5~7.5 cups  $\Omega$ z

## Procedure



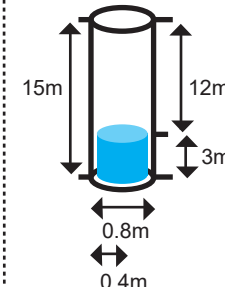
- Calculate water volume
  - Check pH & Turbidity
  - Add Chlorine (Calcium Hypochlorite)
  - Dewater
  - Check Residual Chlorine
  - Dewatering until <5 mg/L as Chlorine
  - No smell: <0.5 mg/L as Chlorine
- 12~24 hours overnight

## Calculation for water volume



$$V = \pi \times r^2 \times d$$

For example:



$$V = \pi \times r^2 \times d$$

$$V = 3.14 \times (0.4)^2 \times 3 = 1.51 \text{ M}^3(\text{ton})$$

# ዲስኪንፌክሽን መመሪያ/Disinfection/

Disinfection using Coffee cup, ሲኒ method

①



በመጀመሪያ በጉድጓድ ውስጥ ያለው የውሃ መጠኑን ይለኩ።  
 $V = n \times [r]^2 \times d$

②



በመቀጠልም ተራቢ ዲቲን እና የቲኤች መጠኑን ከመለኪያዎች ላይ ያንባቸው።

③



ሲኒን በመጠቀም ትተረቢ ዲቲን በማየት ክሎሪን መጠጥቦጫ ዕቃ ውስጥ ይጨምሩ። ምን ያህል ሲኒ እንደሚጨመር ተረቢ ዲቲንውን በማየት ይገምቱ።

④



በመቀጠል ክሎሪንን በደንብ ያዋህዱት።

⑤



የተዋህደውን ክሎሪን ውሃ ውስጥ ይጨምሩ። ይህ በሚደረግበት ጊዜ በፈጹም ውሃው አይጠጣም።

⑥



ከ12 - 24 ቆይታ በኋላ ክሎሪን የተጨመረበትን ውሃ ያሸቱት።

⑦



ሽታ ካለው ውሃውን ወደ ውጭ ያፍሱ።

⑧



በመቀጠልም ምን ያህል ክሎሪን መጠን በውሃ ውስጥ እንዳለ ለኩ። ውሃ ውስጥ ያለው የክሎሪን ሽታ እስሲጠፋ ድረስ ውሃውን ያፍሱ።