

Dug well with hand pump

Virtual Sanitary Inspection

WASH FIT WATER MODULE Supplementary material

Time to complete: 30 minutes

I. Background

You are the local environmental health officer conducting surveillance and have been tasked with the very important job of conducting a Sanitary Inspection (SI) at the health facility in the village of Waterville.

Waterville village is served by a primary health care facility, Waterville PHC, which relies on a single dug well with hand pump (installed 5 years ago) for its water.

It is a lovely sunny day in Waterville on the day of your inspection (32° Celsius), which you are told is a pleasant change, as Ms. Grace Macauley (the water supply representative that is assisting the WASH FIT team to do the assessment) has complained that last week it was much cooler (22° Celsius) and raining heavily for the whole week!

The water quality is typically good at Waterville PHC, as your pre-Sanitary Inspection review of the historic water quality data for this water supply indicates that there were no faecal coliforms detected during last year's inspection (i.e. 0 CFU per 100 mL; sample taken on 21 February 2019), although the turbidity on this same date was high (10 NTU). There are no other water quality data available.

There is no continuous water treatment at this well prior to abstraction by the facility staff, although shock (batch) chlorination is practiced following flood events annually (typically a one-off dose of the well with chlorine, to a residual concentration of approx. 0.5 mg/L).

II. Task

Using the above information, and Figures 1 and 2 below, complete the Sanitary Inspection forms for the dug well with a hand pump.

Before you complete the Sanitary Inspection form, first read the:

- Technology Fact Sheet, and then the
- Management Advice Sheet

These are intended to guide you through the completion of the Sanitary Inspection.

When completing the **Sanitary Inspection** please complete all sections (Section I to IV).

Good luck! The health and well-being of the patients and staff at Waterville health care facility is in your hands...

II. Supplemental information to help complete the task

- There is no inspection port (or corresponding cover) in this well type
- There are no sanitation facilities or sanitation infrastructure within 10 meters of the well, although there is a pit latrine 20 meters uphill of the well which serves the facility
- The local soil type is sandy, and is considered to be very permeable
- The well is located on the edge of the facility grounds, away from the facility building
- There is no fence or barrier around the well, although it is adjacent to a heavily vegetated area on the north side of the facility grounds

- This heavily vegetated area is sometimes used to dispose of rubbish from the health care facility, and there are some signs of open defecation by community members
- The perimeter of the facility is not well maintained and there is evidence of animal activity around the well facility (chickens roaming)
- There is an old open dug well located 40 meters uphill from the dug well with hand pump; however, thankfully no one uses this for drinking-water any more, they only use it for dumping household effluent (i.e. grey water from washing, bathing, laundry water etc.)



Figure 1. Close-up of the dug well with a hand pump

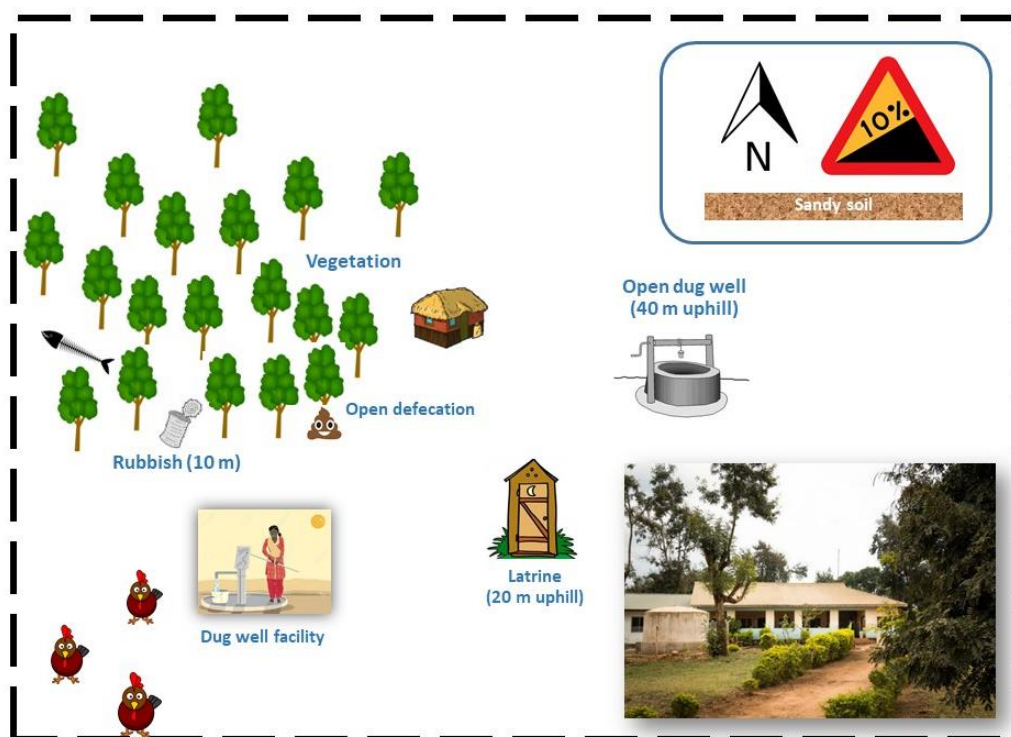


Figure 2. Overview of Waterville PHC (NB – the dotted line is the perimeter of the health care facility)

III. Guiding questions for group discussion

1. Is the format of the SI form clear and user friendly?
2. Where any of the questions unclear or difficult to understand?
3. In what way would SI forms be useful in a health care facility?