

Water and
Sanitation in Asia
Pacific

Sphere standards and indicators - WASH

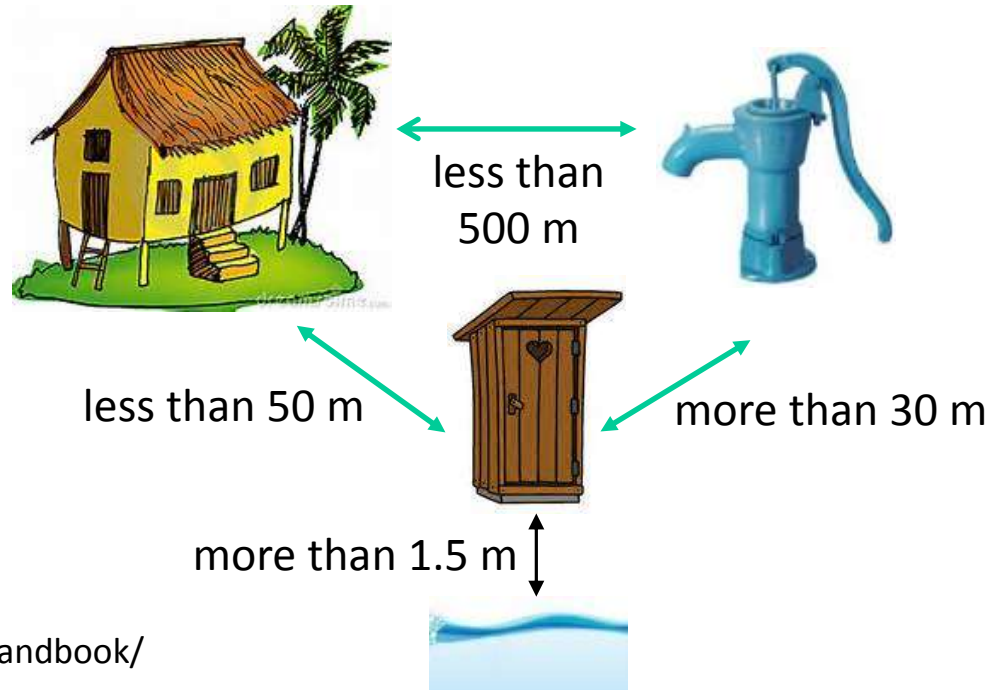


Sphere standards: Excreta disposal

Excreta disposal standard 1: Environment is free from human faeces

The living environment in general and specifically the habitat, the food production area, public centres and surroundings of drinking water sources are free from human faecal contamination.

- Environment free from human faeces
- Children faeces disposed of immediately and hygienically
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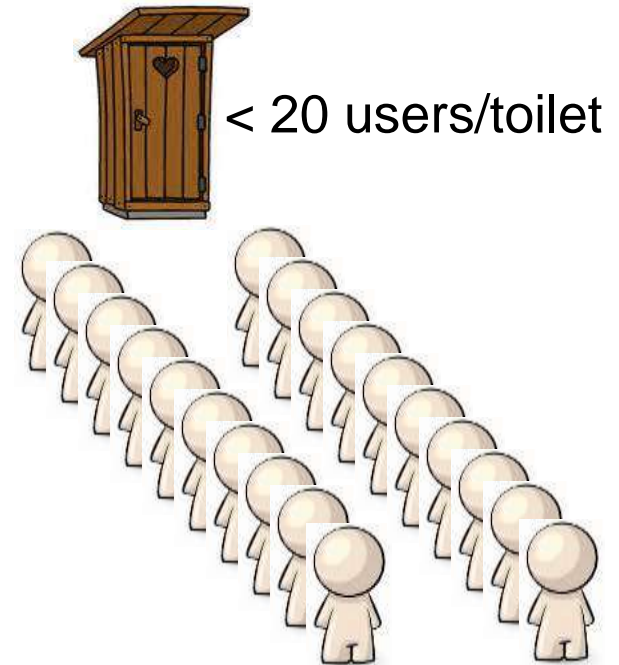
<http://www.sphereproject.org/handbook/>

Sphere standards: Excreta disposal

Excreta disposal standard 2: Appropriate and adequate toilet facilities

People have adequate, appropriate and acceptable toilet facilities, sufficiently close to their dwellings, to allow rapid, safe and secure access at all times, day and night.

- Toilets are appropriately designed, built and located
- Lockable toilets for women and men available in public places
- People wash their hands after using toilets and before eating and food preparation
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Key considerations for selection of water source: Water quantity

Access and water quantity



All people have **safe and equitable access to a sufficient quantity of water** for drinking, cooking and personal and domestic hygiene. Public water points are sufficiently close to households to enable use of the minimum water requirement.

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| Survival needs: water intake (drinking and food) | 2.5-3 L per day |
| Basic hygiene practices | 2-6 L per day |
| Basic cooking needs | 3-6 L per day |
| Total basic water needs | 7.5-15 L per day |
| Maximum distance (dwelling ↔ nearest water point) | <500 m |
| Queueing time | 30 min |

Key considerations for selection of water source: Water quality

Water quality



No faecal coliforms per 100ml of water at point of delivery and use



Protected/treated water sources preferred over other readily available unprotected ones

Basic water quality test – Drinking water quality criteria (Refer national standards or WHO guidelines)

- Conductivity: no health based target, although water will taste salty to most people between 1,000 – 1,500 $\mu\text{S}/\text{cm}$
- Turbidity ≤ 5 NTU
- pH $6.5 < \text{pH} < 8.5$ (not a health based target)
- Faecal coliforms 0 CFU/100 ml (Colony Forming Units)
- Free chlorine (When chlorine is used as a disinfectant agent) after 30 minute contact time at pH < 8 should be ≥ 0.5 mg/l and no less than 0.2 mg/l at point of delivery
- Colour, odour, taste acceptable for users

Key considerations for distribution

Water facilities



Each HH has at least 2 clean water collecting containers of 10-20L

Water collection and storage containers have narrow necks and/or covers for buckets or other safe means of storage

At least 1 washing basin per 100 people and private laundering and bathing areas available for women, with enough water for bathing and laundry

Water at HH level is free from contamination at all times

People are satisfied with adequate facilities they have for water collection, storage, bathing, hand washing and laundry

Regular maintenance of the installed systems and facilities is ensured and users are involved where possible