

OFF-GRID SURVIVAL & WATER INDEPENDENCE

The Emergency Water Filtration & Wellhead Backup Cheatsheet

A Field Manual on 4 Gravity Multi-Layer Filter Recipes, Zero-Power Well Siphons, and Exact Chemical Purification Ratios

PUBLICATION	CATEGORY	RESEARCH LAB
Master Field Edition	Survival & Water Security	DDD Labs

When municipal chlorination stations collapse or floodwaters inundate local wells, untreated surface water harbors deadly pathogens including *Cryptosporidium*, *Giardia*, and *E. coli*. Filtering suspended solids is only step one; biological pathogens must be sterilized with precision chemical dosing.

Disinfectant Agent	Concentration	Clear Water Dosing (Per Gallon)	Turbid / Cloudy Water Dosing	Contact Time
Regular Household Bleach (Unscented)	6.0% Sodium Hypochlorite	8 drops (approx. 1/8 tsp)	16 drops (approx. 1/4 tsp)	30 minutes minimum
Concentrated Bleach	8.25% Sodium Hypochlorite	6 drops	12 drops	30 minutes minimum
Tincture of Iodine (2% USP)	2% Active Iodine	5 drops	10 drops	30 minutes minimum
Calcium Hypochlorite (Pool Shock)	68% Granular Chlorine	1 heaping tsp into 2 gal stock; add 1:100	Double stock volume	45 minutes minimum

⚠ The Bleach Additive Hazard

Never use splashless, scented, or color-safe bleaches. These formulations contain non-ionic surfactants, sodium metasilicate, and synthetic perfumes that cause acute chemical poisoning when ingested. Only use regular, pure unscented household bleach.

Construct this high-volume gravity filter inside a food-grade 5-gallon bucket to remove suspended silt, organic matter, and over 90% of biological parasites prior to chemical disinfection.

- ☐ **Layer 1 (Bottom 3 Inches): Coarse River Gravel** — Pre-washed 3/8-inch pea gravel directly surrounding the bottom collection spigot to prevent sand from clogging the drain holes.
- ☐ **Layer 2 (Middle-Lower 3 Inches): Fine Washed Sand** — Silica pool filter sand (20/40 mesh) creates a dense micro-matrix trapping micro-sediments down to 20 microns.
- ☐ **Layer 3 (Middle 4 Inches): Activated Coconut Charcoal** — Acid-washed activated carbon adsorbs volatile organic compounds (VOCs), pesticides, pharmaceutical residues, and chlorine odors.
- ☐ **Layer 4 (Top 4 Inches): Fine Play Sand + Baffle Plate** — Acts as the primary sediment pre-filter. Place a clean ceramic saucer on top to disperse pouring water and prevent channel erosion.

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