

## CHAPTER 12

### BULK WATER REQUIREMENTS

#### Section 1. Applicability.

(a) This Rule applies to all persons engaged in the business of hauling bulk quantities of water for sale for human consumption.

(i) Bulk water haulers shall be licensed according to chapter 2, section 2.

#### Section 2. General Standards.

(a) All bulk water covered under the auspices of this Rule shall be subject to sufficient disinfectant treatment to bring such water into compliance with the microbiological quality standards of 21 CFR 165.110 Bottled Water. Such water shall be obtained from an approved water source.

(b) Bulk water to be hauled and sold shall not contact, at any time, any equipment, line, tank or vehicle used for processing, packaging, holding or hauling of any food or nonfood product other than bulk water.

(c) All equipment having the possibility of coming in contact with the bulk water, including source fill-point equipment, containers, caps, processing equipment, tanks, dispensers, vehicles, hoses, valves, filters and fittings owned or used by any person engaged in hauling bulk water under the auspices of this Rule shall be washed, rinsed, sanitized and subsequently inspected, and replaced as often as necessary to effect and maintain the sanitary quality of such services using methods described in 21 CFR 129.80 Processes and controls.

(d) All water storage and product vehicle tanks shall be completely sealed at all times at all openings to prevent air and contaminant entry except through screened and filtered air vents capable of removing air-borne dust contamination. Such vents shall terminate downward and be covered with filter material capable of removing particulate material which exceeds 10 microns in diameter.

(e) During discharge, the backflow of water from receiving equipment must be prevented by suitable means.

#### Section 3. Vehicle Identification.

(a) The name and address of the person or firm hauling bulk water shall appear on both sides of the tank, or on both of the truck cab doors if the bulk tank is not a separate unit, in letters of a minimum of four inches in height and must be fully visible and legible at all

times.

(b) The words "domestic water only" or "potable water only" shall appear on both sides of the tank in letters of a minimum of four inches in height and on the rear of the tank in letters of a minimum of two inches in height and all must be fully visible and legible at all times.

#### Section 4. Vehicle and Equipment Standards.

(a) All containers, tanks, hoses, fitting, caps and other equipment used to haul, store or transfer bulk water must be constructed of approved food grade materials or be coated with approved food grade coatings as defined in 21 CFR 174 Indirect Food Additives: General and 21 CFR 175 Indirect Food Additives: Adhesives and Components of Coatings.

(b) All pumps must be constructed of food grade, corrosion resistant materials, and have bearings which are either permanently sealed and self-lubricating or are lubricated only with food grade lubricants.

(c) All parts of the tank, filling system, delivery system and associated pumps and hoses must be readily accessible for cleaning and inspection.

(d) All fill and delivery hoses shall be provided with threaded or clamped caps and such caps shall be in place at all times the fitting or hose is not in use. All caps shall be appropriately tethered to equipment to prevent loss and misuse.

(e) When hose bibs are available for filling canteens or portable water containers, a vacuum breaker shall be used to prevent backflow contamination. All such hose bibs shall be provided with caps and shall be kept capped except when in use.

(f) All openings and delivery fittings must be tightly sealed.

(g) A manhole shall be provided for routine maintenance, cleaning and sanitizing. The manhole shall be large enough to enter for inspection.

(h) A bottom drain shall be provided to allow for complete drainage of the tank.

#### Section 5. Fill Point Standards.

(a) When using an overhead standpipe filling source, the filler hose shall terminate at least two hose diameters above the overflow of the tank and must be supported by a device which will provide for overhead protection of the fill hole. Threaded or clamped caps must be attached by chains to discharge and entry points of the standpipe and shall be used to protect the standpipe when it is not in use for filling.

- (b) When filling through a direct connection, a suitable vacuum breaker is required.

#### Section 6. Discharge Requirements.

(a) When water is discharged from the bulk tank, the manhole and all other openings to the air must remain closed and be properly vented and screened to prevent the entrance of contaminants.

(b) The discharge hose must be supported at least two pipe diameters above the overflow or otherwise protected against backflow by a vacuum breaker. The fill part of the receiving tank must be protected from contamination during the filling procedure.

#### Section 7. Sampling and Evaluation.

(a) At least one bacteriological sample per month during the period of water hauling shall be submitted to an accredited laboratory by the hauler for a Coliform determination. A copy of the results shall be provided to the regulatory authority.

#### Section 8. Records.

(a) The water hauler shall maintain a log of activities including at a minimum:

- (i) Dates of hauling;
- (ii) Water sources;
- (iii) Delivery points;
- (iv) Copies of agreements and contracts; and
- (v) Results of required bacteriological analysis.

(b) These records shall be maintained for two (2) years in a central location and made available for review by the regulatory authority.

#### Section 9. Exemptions.

(a) Persons hauling water for their own use or for the use of their non-paying guests are not subject to the requirements of this Rule, providing they are not engaged in a profit oriented enterprise or sponsor of a free business or recreational camp where the public would be expected to consume the water.

(b) In emergency situations, equipment and/or water not approved under the auspices of this Rule shall be approved by the regulatory authority.

(i) The equipment selected for emergency use shall not have been previously used for hauling substances that are potentially unsafe for humans, such as sewage or chemicals;

(ii) All equipment must be thoroughly cleaned and sanitized before use;

(iii) The water shall be sufficiently disinfected to insure it is safe for human consumption; and

(iv) This exception shall only be granted after the personal observation and approval by the regulatory authority.