

Water Reclamation and Reuse Standards

September 1997



September 1997
Publication #97-23

Water Reclamation and Reuse Standards

September 1997



For more information or additional copies of this report contact:

Office of Environmental Health
Division of Drinking Water
1500 W 4th Ave, Suite 305
Spokane, WA 99204
Telephone: (509) 456-2490

Office of Environmental Health
Division of Drinking Water
Airdustrial Center Bldg 3
PO Box 47822
Olympia, WA 98504-7822
Telephone: (360) 753-3466

Department of Ecology
Publications Distribution
PO Box 47600
Olympia, WA 98504-7600
Telephone: (360) 407-7472
Refer to publication #97-23

The Department of Ecology is an equal opportunity and affirmative action agency and does not discriminate on the basis of race, creed, color, national origin, sex, marital status, sexual orientation, age, religion, Vietnam era veteran's status, or disability as defined by applicable state and/or federal regulations or statutes.

If you have special accommodation needs or require this document in alternative format, please contact Sharon Lewis at (360) 407-6401. Ecology's telecommunications device for the deaf (TDD) number is (360) 407-6206.

- (1) Alarm and multiple biological treatment units capable of producing oxidized wastewater with one unit not in operation;
- (2) Alarm, short-term storage or disposal provisions, and standby replacement equipment;
- (3) Alarm and long-term storage or disposal provisions; or
- (4) Automatically actuated long-term storage or disposal provisions.

Section 3. Secondary Sedimentation

All secondary sedimentation unit processes shall be provided with one of the following reliability features:

- (1) Multiple sedimentation units capable of treating the entire flow with one unit not in operation;
- (2) Standby sedimentation unit process; or
- (3) long-term storage or disposal provisions.

Section 4. Coagulation

(a) All coagulation unit processes shall be provided with the following features for uninterrupted chemical feed:

- (1) Standby feeders;
- (2) Adequate chemical storage and conveyance facilities;
- (3) Adequate reserve chemical supply; and
- (4) Automatic dosage control.

(b) All coagulation unit processes shall be provided with one of the following reliability features:

- (1) Alarm and multiple coagulation units capable of treating the entire flow with one unit not in operation;
- (2) Alarm, short-term storage or disposal provisions, and standby replacement equipment;
- (3) Alarm and long-term storage or disposal provisions;
- (4) Automatically actuated long-term storage or disposal provisions; or
- (5) Alarm and standby coagulation unit process.

Section 5. Filtration

All filtration unit processes shall be provided with one of the following reliability features:

- (1) Alarm and multiple filter units capable of treating the entire flow with one unit not in operation;
- (2) Alarm, short-term storage or disposal provisions and standby replacement equipment;
- (3) Alarm and long-term storage or disposal provisions;
- (4) Automatically actuated long-term storage or disposal provisions; or
- (5) Alarm and standby filtration unit process.

Section 6. Disinfection

(a) All disinfection unit processes where chlorine is used as the disinfectant shall be provided with the following features for uninterrupted chlorine feed:

- (1) Standby chlorinator;
- (2) Standby chlorine supply;
- (3) Manifold systems to connect chlorine cylinders;
- (4) Chlorine scales;
- (5) Automatic switchover to full chlorine cylinders; and
- (6) Continuous measuring and recording of chlorine residual.

(b) All disinfection unit processes where chlorine is used as the disinfectant shall be provided with one of the following reliability features:

- (1) Alarm and standby chlorinator;
- (2) Alarm, short-term storage or disposal provisions, and standby replacement equipment;
- (3) Alarm and long-term storage or disposal provisions;
- (4) Automatically actuated long-term storage or disposal provisions; or
- (5) Alarm and multiple point chlorination. Each point of chlorination shall have an independent power source, separate chlorinator, and separate chlorine supply.

(c) All other disinfection unit processes shall be provided with one of the following reliability features: