Sanitary Survey Check List

Acceptable	Deficient	Description
		Well
		Well seal – seal maintained and no unsealed openings
		Elevation of top of well casing - extends 18-inches above grade or 12-inches above well house floor
		Well vented (if installed): vent downturned, covered with #14 non-corrodible screen, and proper air gap
		Pump to waste line – proper air gap and covered with #4 non-corrodible screen
		Ability to measure drawdown
		Security – protected against unauthorized entry
		No toxic chemicals, hazardous or flammable materials or lubricants stored in the well house
		Pump discharge line: equipped with smooth nose sample tap, check valve, pressure gauge, flow meter, and shut off valve
		Air release valve: vent down turned, screened with #14 non-corrodible screen, terminate 6-inches above the floor, and located between pump and check valve
		Pitless Adapter – water tight cap
		Springs
		Collection area fenced 50-feet upgradient to prevent access by livestock
		Surface water and drainage diverted from the 50 feet protection zone
		Overflow/drain lines have #4 non-corrodible screens
		Overflow – minimum 12-inches of free fall
		Drain – air gap of 2 pipe diameters
		Collection area not subject to ponding of surface water
		10-feet of impervious clay cover or 2-feet of cover with liner
		Void of deep rooted vegetation within fenced collection area
		No evidence of roots in the collection lines
		Physical features of spring collection box: 2" shoe box lid, locked, gasket, 18-inches above grade or 4-inches above concrete surface, no unsealed openings
		If vented: down turned, 24-inches above earthen cover, #14 non corrosive screen and #4 protective screen cover for larger vents
		Flow meter or other flow measure device
		Tanks
		Vent – down turned, 24-inches above grade, screened with #14 non-corrodible screen and covered with #4 protective screen.
		Access opening: opening cover 4" above concrete tank surface or 18" above earthen cover, 2" shoe box type lid, gasket, locked, no penetrations in lid
		Roof penetrations sealed (i.e. water level indicator cables, holes, etc)
		Overflow pipes: terminated 12 to 24 inches above grade, #4 non-corrodible screen, not directly connected to sewer
		Drain line: discharge through air gap of 2 pipe diameters, #4 non-corrodible screen
		No Evidence of cracks or leaking

Acceptable	Deficient	Description
		Pump Stations
		No unexpected leakage
		Protective guards on rotating and electrical equipment
		At least 2 functioning pumping units for redundancy
		Adequate drainage and protected against flooding
		Each pump discharge line equipped with: isolation valves on suction and discharge, check valve between pump and isolation valve, pressure gauge on discharge piping capable of indicating negative and positive pressure
		Disinfection
		Trace residual maintained at all points in the distribution system
		Disinfection is continuous
		ANSI/NSF Standard 60 appproved chemicals
		Flow rate of water to be treated constant or automatic proportioning possible
		Means to measure the volume of water treated
		Spare parts available
		Bypass to waste for periods when the chlorination system isn't operational
		Isolation plumbing provided to prevent unchlroinated water to be delivered during maintenance or power outage.
		Gas Chlorinators
		Room heated, lighted, protected against excessive heat
		Automatic switch over
		Pressure gauges at the inlet and outlet of each injector
		Ventilation – air inlets near the ceiling/fitted with louvers suction near the floor
		Separate switches for the fan and lights located outside the chlorine room
		Vents discharge to the outside atmosphere, above grade and #14 non-corrodible screens
		Cylinders restrained
		Weight scale provided
		Screen on injector feed line to prevent clogging
		Provisions to flush the screen on the injector
		Leak repair kit available
		Leak detection provided
		Audible alarm and warning light for continuous leak detector
		Shut-off valve to each injector
		Hypochlorinators
		Tanks/pipes specified for use with individual chemicals and not used for different chemicals
		Tanks - drains provided and protected against backflow, covered to minimize corrosive vapors
		Storage and day tanks provided with separate vents that terminate to the outside atmosphere
		Distribution
		Pressure: 20 psi for fire demand during peak day demand, 30 psi during peak instantaneous demand, and 40 psi during peak day demand
		Air and vacuum release valves: vent down turned, screened with #14 non-corrodible screen, terminate 12" above top of pipe if valve chamber is not subject to flooding and drain to day light is provided, or terminate 12" above grade
		No unprotected cross connections