DEPARTMENT OF ENVIRONMENTAL HEALTH
CONSUMER PROTECTION DIVISION
1555 Berger Dr. • Suite 300 • San Jose, CA 95112-2716
(408) 918-3400 FAX (408) 258-5891 • Website: www.EHinfo.org

CHECKLIST FOR A STATE SMALL WATER SYSTEM

1. STOP!! *If the well has not been drilled then see the Well Construction Checklist*. If the well has been drilled then continue with this checklist.

2. Complete an application for Permit To Construct A State Small Water System Having 5-14 Connections. See attached application.

3. Submit the well drillers report and well yield/pump test report. *Reports greater than 2 years will not be accepted.*

4. Provide the certified laboratory test results for total coliform and the Title 22 inorganic and volatile chemicals. All wells located in the south county area (Morgan Hill, San Martin and Gilroy) will be required to test for *perchlorates*. *Lab results greater than 2 years will not be accepted.* See the attached State Small Water Quality Tests handout.
   NOTE: Personnel from a state certified laboratory must come out and collect the water samples.

5. Provide the signed letter of incorporation of the mutual water system.

6. Provide the legal description of the water system easements.

7. Provide the engineers report for the mutual water system. See attached Engineer's Report Guideline for State Small Water Systems.

8. Submit a water system plan that includes the water source(s), distribution system, water storage tank(s) and parcels to be served. Check with LDE for more information regarding scale and other details.

9. Provide the vicinity map indicating the general location of the water source.

10. Provide a check made payable to *SANTA CLARA COUNTY* for the State Small Water System plan review and after the system has been approved then an annual permit will be issued (see the current fee schedule).

INITIAL SUBMITTALS MUST GO THROUGH LAND DEVELOPMENT AND ENGINEERING AT 408-299-5730

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Application For A State Small Water System (5-14 connections)

Application Date 12/27/13	File #
Applicant Name	Phone #
Mailing Address	
Name of Water Company	

List of parcels to be served by proposed water system

1. APN# - -	8. APN# - -
2. APN# - -	9. APN# - -
3. APN# - -	10. APN# - -
4. APN# - -	11. APN# - -
5. APN# - -	12. APN# - -
6. APN# - -	13. APN# - -
7. APN# - -	14. APN# - -

The undersigned property owner(s) hereby authorize the filing of this application and on-site review by authorized staff.

I certify under penalty of perjury that the forgoing is true and correct.

Signature(s) of property owner(s) as described above.

_____ Date _____

Note: All application fees are nonrefundable.

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STATE SMALL WATER QUALITY TESTS

Before any new well is added to a State Small Water System, a water sample must be submitted to a state certified laboratory for analysis for the following chemicals and properties: *iron, manganese, chlorides, and total dissolved solids* and those chemicals listed below. In addition, a water sample must be taken to check for total coliform bacteria.

A State Small Water System cannot add a well to its system without the expressed written consent of the Department of Environmental Health.

Maximum Contaminant Levels (MCL) Inorganic Chemicals			
Chemical	Mg/L	Chemical	Mg/L
Aluminum	1.000	Fluoride	2.000
Antimony	0.006	Mercury	0.002
Arsenic	0.050	Nickel	0.100
Asbestos	7.000 MFL*	Nitrate (as NO3)	45.000
Barium	1.000	Nitrate + Nitrite	10.000
Beryllium	0.004	Nitrite (as nitrogen)	1.000
Cadmium	0.005	Selenium	0.050
Chromium	0.050	Thallium	0.002
Cyanide	0.200		

*MFL= million fibers per liter, MCL for fibers exceeding 10 um in length

Maximum Contaminated Levels (MCL) Volatile Organic Chemicals (VOCs)			
Chemical	Mg/l	Chemical	Mg/l
Benzene	0.0010	Monochlorobenzene	0.0700
Carbon Tetrachloride	0.0005	Styrene	0.1000
1,2 Dichlorobenzene	0.6000	1,1,2,2 Tetrachloroethane	0.0010
1,4 Dichlorobenzene	0.0050	Tetrachloroethylene	0.0050
1,1 Dichloroethane	0.0050	Toluene	0.1500
1,2 Dichloroethane	0.0005	1,2,4 Trichlorobenzene	0.0700
1,1 Dichloroethylene	0.0060	1,1,1 Trichloroethane	0.2000
Cis-1,2 Dichloroethylene	0.0060	1,1,2 Trichloroethane	0.0050
Trans-1,2 Dichloroethylene	0.0100	Trichloroethylene	0.0050
Dichloromethane	0.0050	Trichlorofluoromethane	0.1500
1,2 Dichloropropane	0.0050	1,1,2 Trichloro- 1,2,2 Trifluoroethane	1.2000
1,3 Dichloropropene	0.0005	Vinyl Chloride	0.0005
Ethylbenzene	0.7000	Xylenes	1.7500

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ENGINEER'S REPORT GUIDELINE FOR STATE SMALL WATER SYSTEMS

The following items must be covered in an Engineer's Report submitted with an application to construct a State Small Water System (5-14 connections).

1. Scope of the system.
2. A description of how the system functions normally to achieve fire flow and during periods of equipment repair.
3. A description of the supply source.
4. A description of the pumping equipment.
5. A description of the transmission and distribution facilities.
6. A description of the water storage facilities.
7. A description of a suggested maintenance program.
8. A summary of the quality of the water and proposed methods of treatment to correct undesirable characteristics, if any; Title 22 inorganic and volatile chemicals (See State Small Water Quality Tests handout); and all of the following are required to be tested for from each source prior to approval of a system:
   a) Total coliform bacteria.
   b) Chlorides.
   c) Total dissolved solids.
   d) Iron and manganese.
9. Reports showing the capacity of the water source and pump test.
10. Specifications covering all material and construction methods.
11. Supporting data for major equipment, i.e., pump curves, pressure tank selection data, etc.
12. Total acreage and number of lots to be served.
13. Estimates of the immediate and ultimate water consumption in the area to be served.
14. A copy of the California State Water Well Driller's Report and the Santa Clara Valley Water District's permit to drill the well.
15. Legal descriptions of all water system land and easements and evidence of dedication or acquisition.
16. The following water system calculations where applicable:
   a) Sizing of mains.
   b) Meeting fire flow requirements.
   c) Determining minimum and maximum working pressures to significant lots at peak and off-peak hours.
   d) Sizing the water storage/pressure tank.
17. If the system is organized as a Mutual Water Company, the Articles of Incorporation, Bylaws and the Covenants, Conditions and Restriction's (CCR's) must be submitted before the system may be approved.