

7.3.5.1 Checklist for Public Water Supply This checklist is for a typical project. Complex projects and large withdrawals in sensitive areas may require additional information.

A. General

1. State the requested annual quantity of water (gals/year) needed. This quantity should equal the annual quantity which will be pumped at a future point in time, or may equal the existing pumpage if no future increases in pumpage are anticipated. The requested quantity should equal average daily pumpage multiplied by three hundred sixty-five (365) days.
2. Explain briefly the derivation of annual demand:
 - a. Indicate the projected population used to determine the annual demand.
 - b. Indicate proposed consumption of water per capita on a permanent population basis. If proposed per capita consumption is greater than existing consumption, please explain the difference.
3. Indicate the maximum daily pumpage associated with the projected average day pumpage.
4. Indicate the amount of maximum daily to average daily demand ratio used in calculating the projected maximum daily pumpage. Explain briefly the basis for using this number.
5. Indicate the source of water.

B. Location

1. Provide a location map.
2. Provide a map delineating the area to be served and a site map of

existing and proposed wellfield and treatment plant facilities. Number the wells, pumps and culverts on the map to correspond with Tables A, B, and C.

C. Facilities

1. Describe all existing and proposed wells by completing Table A.
2. Describe all existing and proposed surface water pumps by completing Table B.
3. Describe all existing and proposed culverts essential to the operation of the wellfield by filling out Table C.
4. Describe the existing wellfield operation schedule, including those wells that are primary, secondary, stand-by, and the well rotation schedule.

D. Population, Service Area, and Water Use

1. Indicate the number of people, and number of equivalent residential connections presently served.
2. Indicate - in acres - the size of area served.
3. Provide information on present, past, and projected water use by filling out Tables D, E, and F.

E. Raw Water Quality Provide recent information on raw water quality.

F. Water Problems Explain any problems the utility or any other user is currently experiencing or causing as a consequence of withdrawals.

G. Irrigation If any of the projected water use will be for irrigation of golf courses or park areas, please indicate the

following:

1. Area in acres which will be irrigated.
2. Type of vegetation to be irrigated.
3. Approximate maximum monthly water use.
4. Approximate average annual water use. And:
5. Show irrigated area on map.

H. Impacts

1. Will the proposed water use affect domestic, irrigation, or other public water supply wells?
2. Will the proposed water use affect any adjacent lake levels?
3. Will the proposed water use cause saltwater intrusion?
4. Will the proposed water use impact environmental features that have either a direct or indirect relationship to the water resources of the District (wetland habitat, natural water bodies, intermittent ponds, upland areas), preferred habitats for rare, endangered or threatened species?

I. Reverse Osmosis Treatment If reverse osmosis is proposed indicate the following:

1. Withdrawal capacity.
2. Potable water supply capacity.
3. Reject water discharge capacity.
4. The treatment efficiency ratio.

5. The amount of raw water that can be blended with the R.O. permeate.
6. The highest level of total dissolved solids (TDS) or chlorides that can be efficiently and economically treated using the installed membranes.
7. The chloride ion concentration in both the reject water and receiving water body. And:
8. Location of effluent discharge on a map.