

\$ 10.00

FEE PAID



I have examined this application as required by SEPA and find that it is:  appropriate public waters of the state of Washington  not an action.

category  SURFACE WATER  GROUND WATER  
9/16/94 DATE \$10.00 MINIMUM STATUTORY EXAMINATION FEE REQUIRED WITH APPLICATION  
P. Healy, W. Baker SIGNATURE  
(GRAY BOXES FOR OFFICE USE ONLY)

RECEIVED

JUL 21 1994

DEPT. OF ECOLOGY

APPLICATION NO. <b>SI-27535</b>	W.R.I.A. 8	COUNTY KING COUNTY	PRIORITY DATE 7/21/94	TIME	ACCEPTED SB
APPLICANT'S NAME - PLEASE PRINT <b>SHORELINE WATER DISTRICT</b>			Bus. Tel. (206) 362-8100		
ADDRESS (STREET) <b>16906 15th AVENUE NE</b>			(CITY) <b>Seattle</b>		(STATE) <b>WA</b>
DATE & PLACE OF INCORPORATION IF APPLICANT IS A CORPORATION			(ZIP CODE) <b>98155</b>		

1. SOURCE OF SUPPLY

IF SURFACE WATER	IF GROUND WATER
SOURCE (NAME OF STREAM, LAKE, SPRING, ETC.) (IF UNNAMED, SO STATE) <b>Lake Washington</b>	SOURCE (WELL, TUNNEL, INFILTRATION TRENCH, ETC.)
TRIBUTARY <b>Cedar-Sammamish Basin</b>	SIZE AND DEPTH

2. USE

USE TO WHICH WATER IS TO BE APPLIED (DOMESTIC SUPPLY, IRRIGATION, MINING, MANUFACTURING, ETC.)  
**Municipal Supply for Shoreline Water District - year round as needed**

ENTER QUANTITY OF WATER REQUESTED USING UNITS OF: <b>7,000 GPM</b>	CUBIC FEET PER SECOND (CFS)	OR	GALLONS PER MINUTE (GPM)	ACRE FEET PER YEAR <b>5,600</b>
TIMES DURING YEAR WATER WILL BE REQUIRED <b>Continually</b>				

IF IRRIGATION, NUMBER OF ACRES <b>N/A</b>	IF DOMESTIC USE, NUMBER OF UNITS BY TYPE, E.G. 1-HOME, 1-MOBILE HOME, 2-CAMPSITES, ETC. <b>N/A</b>	IF MUNICIPAL USE, ESTIMATED POPULATION 20 YEARS FROM TODAY <b>26,000</b>
DATE PROJECT WAS OR WILL BE STARTED <b>8/94</b>	DATE PROJECT WAS OR WILL BE COMPLETED <b>8/97</b>	

3. LOCATION OF POINT OF DIVERSION/WITHDRAWAL

3A. IF IN PLATTED PROPERTY

LOT	BLOCK <b>E.1/2</b>	OF (GIVE NAME OF PLAT OR ADDITION) <b>of Section 15</b>	SECTION <b>15</b>	TOWN <b>26N</b>	RANGE <b>4E</b>	ALSO, PLEASE ENCLOSE A COPY OF THE PLAT AND MARK THE POINT(S) OF WITHDRAWAL OR DIVERSION
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3B. IF NOT IN PLATTED PROPERTY

ON ACCOMPANYING SECTION MAPS, ACCURATELY MARK AND IDENTIFY EACH POINT OF DIVERSION, SHOW NORTH-SOUTH AND EAST-WEST DISTANCES FROM NEAREST SECTION CORNER OR PROPERTY CORNER

ALSO, ENTER BELOW THE DISTANCES FROM THE NEAREST SECTION OR PROPERTY CORNER TO THE DIVERSION OR WITHDRAWAL.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION)	SECTION	TOWNSHIP N.	RANGE (E. OR W.) W.M.	COUNTY
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4. DO YOU OWN THE LAND ON WHICH THIS SOURCE IS LOCATED. IF NOT, INSERT NAME & ADDRESS OF OWNER

5. LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

ATTACH A COPY OF THE LEGAL DESCRIPTION OF THE PROPERTY (ON WHICH THE WATER WILL BE USED) TAKEN FROM A REAL ESTATE CONTRACT, PROPERTY DEED OR TITLE INSURANCE POLICY. OR, COPY CAREFULLY IN THE SPACE BELOW.

Those sections of T26N, R4E served by the Shoreline Water District  
approximately sections 3,4,5,8,9,10.

WHAT IS YOUR INTEREST IN THE PROPERTY ON WHICH THE WATER IS TO BE USED (PROPERTY OWNER, LESSEE, CONTRACT PURCHASER, ETC.)

District Water Purveyor

ARE THERE ANY EXISTING WATER RIGHTS RELATED TO THE LAND ON WHICH THE WATER IS TO BE USED (INCLUDING WATER PROVIDED BY IRRIGATION DISTRICTS OR DITCH COMPANIES.)

YES  NO

IF YES, FROM WHAT SOURCE (i.e. SURFACE OR GROUND WATER) AND UNDER WHAT AUTHORITY

6. DESCRIPTION OF SYSTEM PROPOSED OR INSTALLED

(FOR EXAMPLE: SIZE OF PUMP, CAPACITY OF PUMP, PUMP MOTOR HORSE POWER, PIPE DIAMETER, NUMBER OF SPRINKLERS, ETC.)  
Size of Pump: 1700 H4 VLT vertical turbine pump

Capacity of Pump: 3500 GPM

No. of Pumps: 3

Pipe Diameter: 36"

Pump Motor Horsepower: 700HP

Two pumps will operate simultaneously to produce 7000 gpm at 600 TDH. The third pump will serve as a backup.

REMARKS

7. This proposal provides an opportunity for restoring instream flows to the Cedar River and increasing system reliability.

8. COMPLETE THIS SECTION ONLY IF THIS APPLICATION INCLUDES IRRIGATION AS A USE

IN ORDER TO IMPLEMENT THE PROVISIONS OF INITIATIVE MEASURE NUMBER 59, THE FAMILY FARM WATER ACT WHICH WAS PASSED BY THE VOTERS ON NOVEMBER 3, 1977, WE MUST ASK THE FOLLOWING QUESTIONS:

DOES THE TOTAL NUMBER OF ACRES IN WHICH YOU HAVE CONTROLLING INTEREST IN THE STATE OF WASHINGTON EXCEED 2000 ACRES FOR THE FOLLOWING THREE CATEGORIES:

- 1. LANDS THAT ARE BEING IRRIGATED UNDER WATER RIGHTS ACQUIRED AFTER DECEMBER 8, 1977. YES  NO
- 2. LANDS THAT MAY BE IRRIGATED UNDER APPLICATIONS NOW ON FILE WITH THE DEPARTMENT OF ECOLOGY. YES  NO
- 3. LANDS THAT MAY BE IRRIGATED UNDER THIS APPLICATION. YES  NO

IF 10 ACRE-FEET OR MORE OF WATER IS TO BE STORED AND/OR IF THE WATER DEPTH WILL BE 10 FEET OR MORE AT THE DEEPEST POINT, A STORAGE PERMIT MUST BE FILED IN ADDITION TO THIS PERMIT. THESE FORMS CAN BE SECURED, TOGETHER WITH INSTRUCTIONS, FROM THE DEPARTMENT OF ECOLOGY.

SIGNATURES

*Donald F. Bicker*  
APPLICANT'S SIGNATURE

LEGAL LANDOWNERS NAME (PLEASE PRINT)

LEGAL LANDOWNER'S SIGNATURE (OWNER OF PROPERTY DESCRIBED IN ITEM NUMBER 5)

LEGAL LANDOWNER'S ADDRESS

FOR OFFICE USE ONLY

STATE OF WASHINGTON }  
DEPARTMENT OF ECOLOGY } ss.

This is to certify that I have examined this application together with the accompanying maps and data, and am returning it for correction or completion as follows: .....

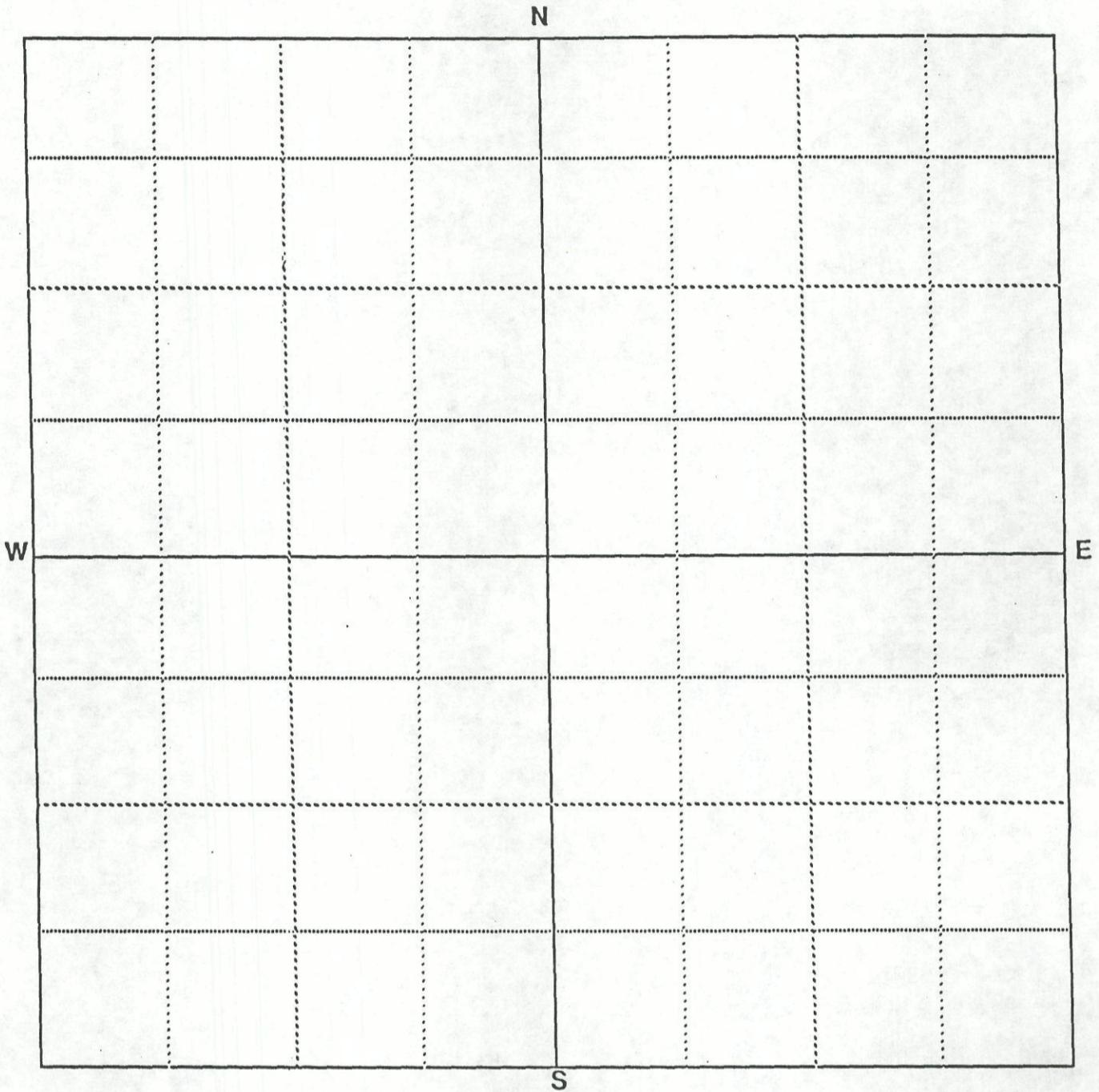
.....  
.....

In order to retain its priority date, this application must be returned to the Department of Ecology, with corrections, on or before ....., 19.....

Witness my hand this..... day of....., 19.....

SECTION MAP

Sec. ..... E. 1/2 15 ..... Twp. .... 26 ..... N. R. .... 4 E .....



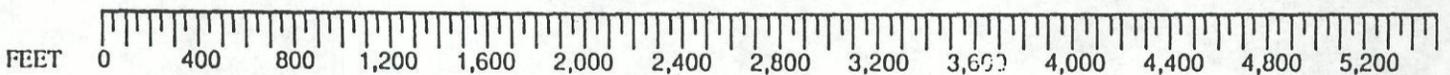
Scale: 1 inch = 800 feet (each small square = 10 acres)

Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile.  
Indicate traveling directions from nearest town in space below.

See attached 7 1/2 minute U.S.G.S. Map. "Seattle North Washington"

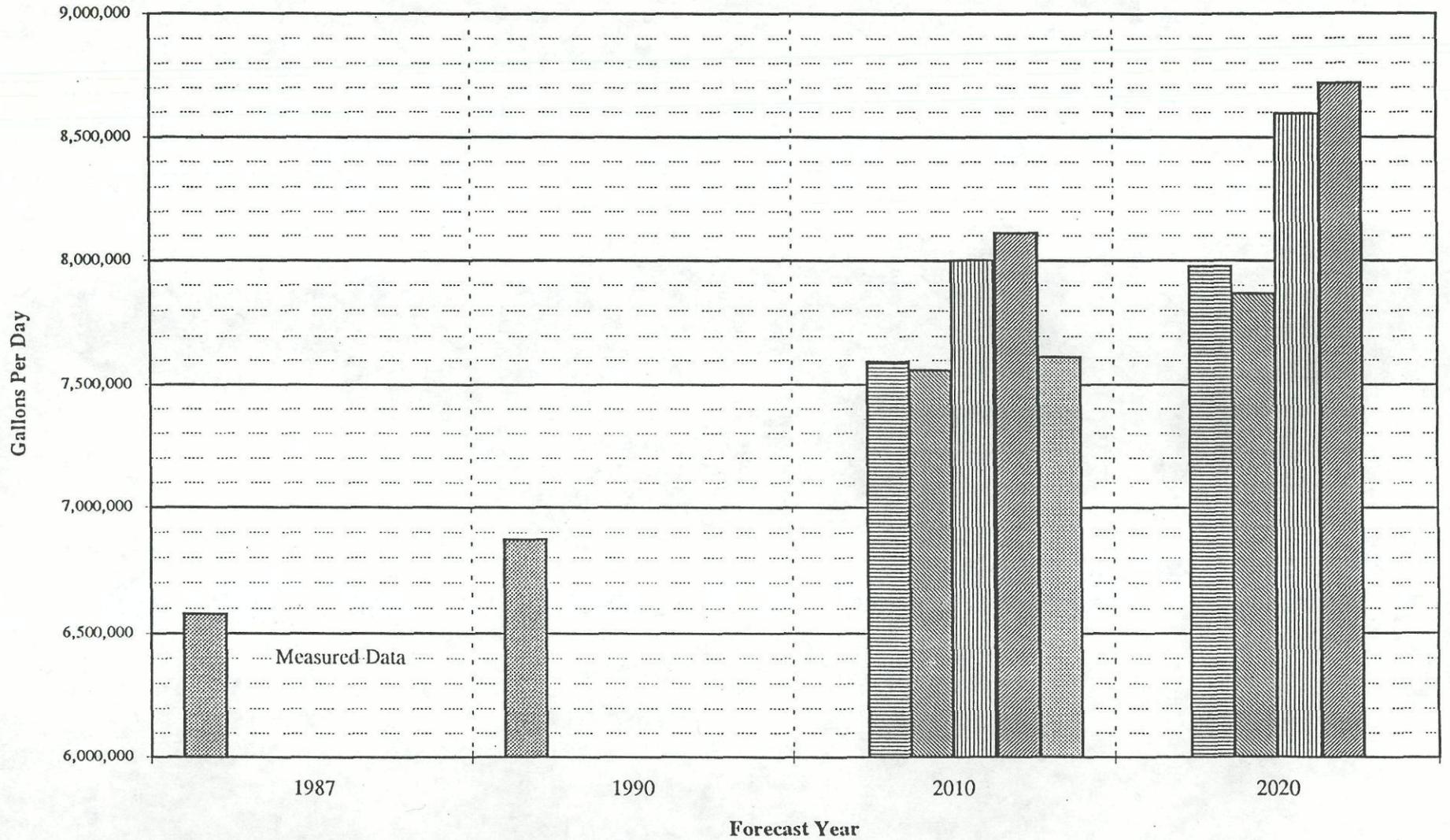
Detach here

Fold along scale



Detach this scale at the performance, fold excess paper under or cut off excess by cutting along the scale line. This scale corresponds to the SECTION MAP above. You can read feet directly from this scale to outline property and locate points of diversion or withdrawal on the SECTION MAP. Enclose this map along with the application and \$10.00 examination fee.

### DAILY WATER DEMAND BY TAZ FOR DISTRICT ONLY



█ 14 Centers w/U.S.A.
 █ 22 Centers w/U.S.A.
 █ Existing Plans Wout U.S.A.
 █ Existing Plans w/U.S.A.
 █ SAZ Forecast

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## DETERMINATION OF MAXIMUM WATER DEMAND

The first step was to determine which TAZ's, FAZ's, and SAZ's were in the Shoreline Water District. Growth projections for TAZ and FAZ had been determined by the Puget Sound Regional Council from the Washington State Office of Financial Management forecasts using different urban centers scenarios with and without urban service areas. Projections for SAZ were determined by King County to reflect countywide planning 7/19/94 policies. TAZ's, FAZ's and SAZ's were further broken down into approximate percentages of each zone that were within the Shoreline Water District. These percentages were then used to project populations, employment, and single and multi-family housing in the district in the years 1990, 2010, and 2020.

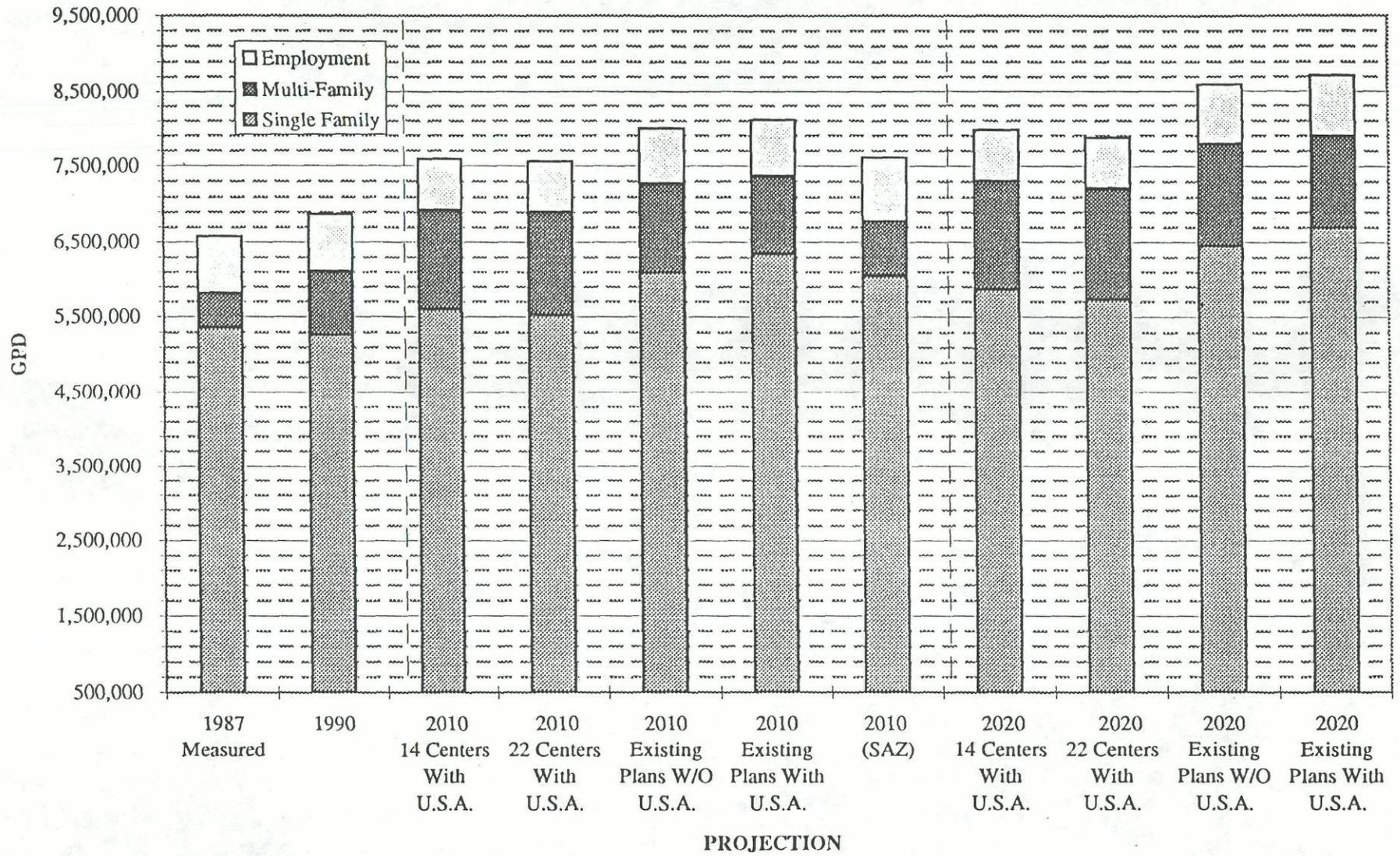
The water use was divided into three classifications: single-family, multi-family, and employment. Equivalent Residential Units (ERU's) were determined for single and multi-family housing. The amount of water a single-family residence uses is one ERU, and each multi-family unit uses 0.6 ERU's, as determined in the 1991 Shoreline Water District Comprehensive Water System Plan.

The maximum demand per ERU per day between 1985 and 1988 was 800 gallons as determined by supply records. This quantity was used to determine maximum future daily demand by multiplying number of residential units times ERU times 800 gallons.

The water demand per job was then determined, assuming that the total number of jobs within the district did not change drastically between the years of 1987 and 1990. The maximum number of gallons per day for employment within the district in 1987 was divided by the number of jobs predicted in the district in 1990. This gave a maximum water demand of 107 gallons per job per day. The maximum daily water demand for employment was then determined using the predicted number of jobs times 107 gallons.

Using residential and employment demands, total maximum water demands were determined for each growth projection.

### MAXIMUM WATER DEMAND FOR DISTRICT ONLY BY TAZ AND SAZ



PROJECTION

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