CHAPTER 5

SOURCE WATER PROTECTION

5.1 WELLHEAD PROTECTION PROGRAM

In 1997, Toppenish completed and implemented a wellhead protection plan. The purpose of the plan was to:

- Identify the zones of groundwater contribution to the municipal wells;
- Determine the susceptibility of the aquifers to contamination;
- Identify potential sources of contamination that may threaten the integrity of the City's ground water supplies;
- Develop a contingency plan to be implemented in the event of a contaminant release results in the loss of a well due to contamination;
- Provide preliminary recommendations for alternative water supply sources; and
- Establish management procedures to help protect the water supplies from contamination.

The City of Toppenish's Wellhead Protection Plan, prepared in accordance with the Department of Health's requirements, contains the following elements:

- A water system overview;
- A well susceptibility determination for each well;
- A wellhead protection area determination for each well;
- An inventory of potential contamination sources;
- A contingency plan, which includes an analysis of source capacity, reliability, and water rights, short- and long-term alternate water sources, and emergency and spill response procedures; and
- A wellhead protection management plan which details regional and local management efforts to protect the City's ground water supplies.

The City of Toppenish's Wellhead Protection Plan, provided in Chapter 10 of the Plan, should be consulted for specific details and information regarding the City's wellhead protection program.

As part of this Water System Plan, the Potential Contaminant Source and Notification List was updated and is presented at the end of this chapter.

5.2 EXEMPT WELLS

The City of Toppenish allows the drilling and use of exempt wells within its service area only if the property to be served is located outside the area served by the City's water system. Exempt wells are defined in state law (RCW 90.44.050) as:

> *" . . . any withdrawal of public ground waters for stock-watering purposes, or for the watering of a lawn or of a noncommercial garden not exceeding one-half acre in area, or for a single or group domestic uses in the amount not exceeding five thousand gallons a day, or for an industrial purpose in the amount not exceeding five thousand gallons a day, is and shall be exempt from the provisions of this section . . .".*

The City requires those areas served by exempt wells to connect to the City's water system when it extends to the property. At that time, any exempt wells on the property shall either be decommissioned in accordance with the applicable Washington Administrative Code (WAC) requirements, or taken over by the City to become part of the City's water system.

5.3 MODIFICATIONS TO THE WELLHEAD PROTECTION PLAN

The Potential Contaminant Source and Notification List, originally developed in 1997, has been updated as part of this Water System Plan.

Potential Contaminant Source List

Well No. 3

One Year Time of Travel Zone

Swimming Pool Park	20 Asotin Avenue
Toppenish 50 Meter Pool	20 Asotin Avenue
Riojas Trucking	11 Asotin Avenue
Spirit Mart	102 East Toppenish Avenue

Five Year Time of Travel Zone

Ruggles Auto Repair	112 Washington Avenue
Coco's Hair Salon	502 East Toppenish Avenue
YVR Depot	10 South Asotin Avenue
Crop Production Services	310½ Washington Avenue
Railroad Park	14 South Asotin Avenue
Robierts Denture	7B South Toppenish Avenue
Slick's Barber Shop	12 South Toppenish Avenue
Ortega Auto Sales & Repair	202 East Toppenish Avenue
Janet's Salon	206 South Toppenish Avenue
Carmona Auto Sales	301 South Toppenish Avenue
Lopez Auto Sales	302 South Toppenish Avenue
Raymonds Upholstery	214 East Toppenish Avenue
US Mex Auto Sales	218 East Toppenish Avenue
Michoacan's Auto Sales	301 East Toppenish Avneue
Lincoln Park	101 North D Street
Anthony's Car Wash	315 East Toppenish Avenue
Lovely You Hair Salon	9 South Alder
Aqua Blast Car Wash	111 Washington Avenue
Gibbons Pharmacy	117 South Toppenish Avenue
Bleyhl's Farm Service	201 – 205 Asotin Avenue
Raymonds Iron Works	214 East Toppenish Avenue
Hair Salon	216 East Toppenish Avenue
OK Muffler	211 East Toppenish Avenue
Hair Fashions	17 South Alder
Bio Twine	101 East Second Avenue
Mercada Gudaljara	10 Washington Avenue
Rathbun Iron Works	202 Washington Avenue
Blue Sky market	111 Chehalis Avenue
Folklore Foods	9 North B Street
Toppenish Police Department	1 West First Avenue
Toppenish City Hall	21 West First Avenue

Ten Year Time of Travel Zone

Lincoln Elementary School	301 – 315 North Alder Street
John Boy's Auto Wrecking	320 East First Avenue
Bleyhl's Cenex Fuel	19 East Second Avenue
Valley View Elementary School	515 Zillah Avenue

Well No. 5

One Year Time of Travel Zone

Olney Park	717 Adams Avenue
BNSF Railroad Tracks	

Five Year Time of Travel Zone

Toppenish Public Works Shop	8 Buena Way
Toppenish School District Bus Shop	401 – 403 Asotin Avenue
Toppenish Middle School	101 Buena Way
Yakima Co. Fire District Station	9 Buena Way
Toppenish Library	1 South Elm Street
Huyler Construction	12 South Fir Street
Garfield School	505 Madison Avenue
Woodbridge Chiropractic Center	308 Monroe Avenue

Ten Year Time of Travel Zone
SP Farms

Well Nos. 6 & 8

One Year Time of Travel Zone

Mt. Adams Auto Parts	302 West First Avenue
First Choice Physical Therapy	206 West First Avenue
Napa Auto Parts	508 West First Avenue
Roadrunner Store	502 West First Avenue
EZ Buy Auto	408 West First Avenue
Pioneer Park	510 West Second Avenue
YVFW Clinic	518 West First Avenue
Market Place	512 West First Avenue
Toppenish City Fire Department	514 West Second Avenue
General Store Conoco	505 West First Avenue
YIN Management	Highway 97
Auto Zone	610 West First Avenue

Five Year Time of Travel Zone

L and L Salon	212 West First Avenue
Salon West	305 West First Avenue
AMR Ambulance	500 West Fourth Avenue
Toppenish Community Hospital	502 – 504 West Fourth Avenue
Dentist	604 West Fourth Avenue
Chiropractor	604 West Fourth Avenue
Roberto's Hair Design	221 South Toppenish Avenue
Professional Images	305 West First Avenue
McClavey's Barber Shop	709 West Third Avenue
Valley Rehab Center	802 West Third Avenue
Barbara's Beauty Salon	408 West Third Avenue
TNG Heating & Refrigeration	9 West Second Avenue
Albrecht Auto Glass	310 South Toppenish Avenue
Colonial Funeral Home	230 South Alder
K & M Auto Lube	302 South Toppenish Avenue
Charlie's Auto Sales	3 North Elm Street
Patterson Park	210 South Elm Street
Kukui Mart	401 South Elm Street
Ideal Lumber	827 West First Avenue
7-11 Store	611 WestFirst Avenue
Western Quick Lube	310 South Elm Street
Texaco Station	321 South Elm Street
Mid-Valley Produce	811 West First Avenue
Howard's OK Tires / Car Wash	710 West First Avenue
Safeway Store	711 West First Avenue
Mr. T's Auto	401 South Elm Street
Courtesy Coin Op	695 Guyette

Ten Year Time of Travel Zone

Silgan Container Corp	45 East Third Avenue
Auto Boneyard	405 South Division
Schutz Painting	608 South Toppenish Avenue
Chandler Distributing	810 West First Avenue
AC Auto Sales	812 West First Avenue

Well No. 7

One Year Time of Travel Zone

Toppenish High School	141 Ward Road
Wa State Migrant & Eagle Alt School	1200 – 1210 Jackson
Kirkwood School	403 South Juniper
Wapato Irrigation District	Ward Road to Linden Street

Five Year Time of Travel Zone

Smartlowitt School – Tribal School	Linden Street
Toppenish High School	141 Ward Road
Kirkwood School	403 South Juniper

Ten Year Time of Travel Zone

Toppenish High School	141 Ward Road
WSDOT Maintenance Shop	231 Fort Road
Wapato Irrigation District	Ward Road to Linden Street
SP Farms	