

Chapter 5: SOURCE WATER PROTECTION

Because the City's sources of supply are all groundwater, the City has a wellhead protection program that is based on a comprehensive protection plan developed in 2004. That plan has been updated with the addition of new wells over the years, the most recent being Wells 12 and 13.

5.1 WELLHEAD DELINEATION

The original plan, which is included in Appendix 8, included wells 5, 6, 7, 8, 9, and 10 (was originally 4A). As previously noted, Well 5 has been decommissioned. The delineation includes a description of the geology and hydrogeology of the area and estimates of 1, 5, and 10 year time-of-travel as produced by an analytical computer model. Figure 5-1 is from that report and shows the combined capture zones for the City wells at that time. Additional delineation efforts have been conducted for the newer wells (Wells 11, 12 and 13). Figure 5-2 shows the addition of Well 11 (adjacent to Well 10). Figure 5-3 identifies the capture zone for Wells 12 and 13. The Susceptibility Assessment Survey forms and other source information for the new wells were submitted to DOH as part of the source approval packages.

5.2 POTENTIAL CONTAMINATE SOURCE INVENTORY

The initial inventories of potential sources of contamination have been regularly updated by conducting site surveys and reviewing available data basis. The most recent update was completed in 2015. The next update is scheduled for 2017.

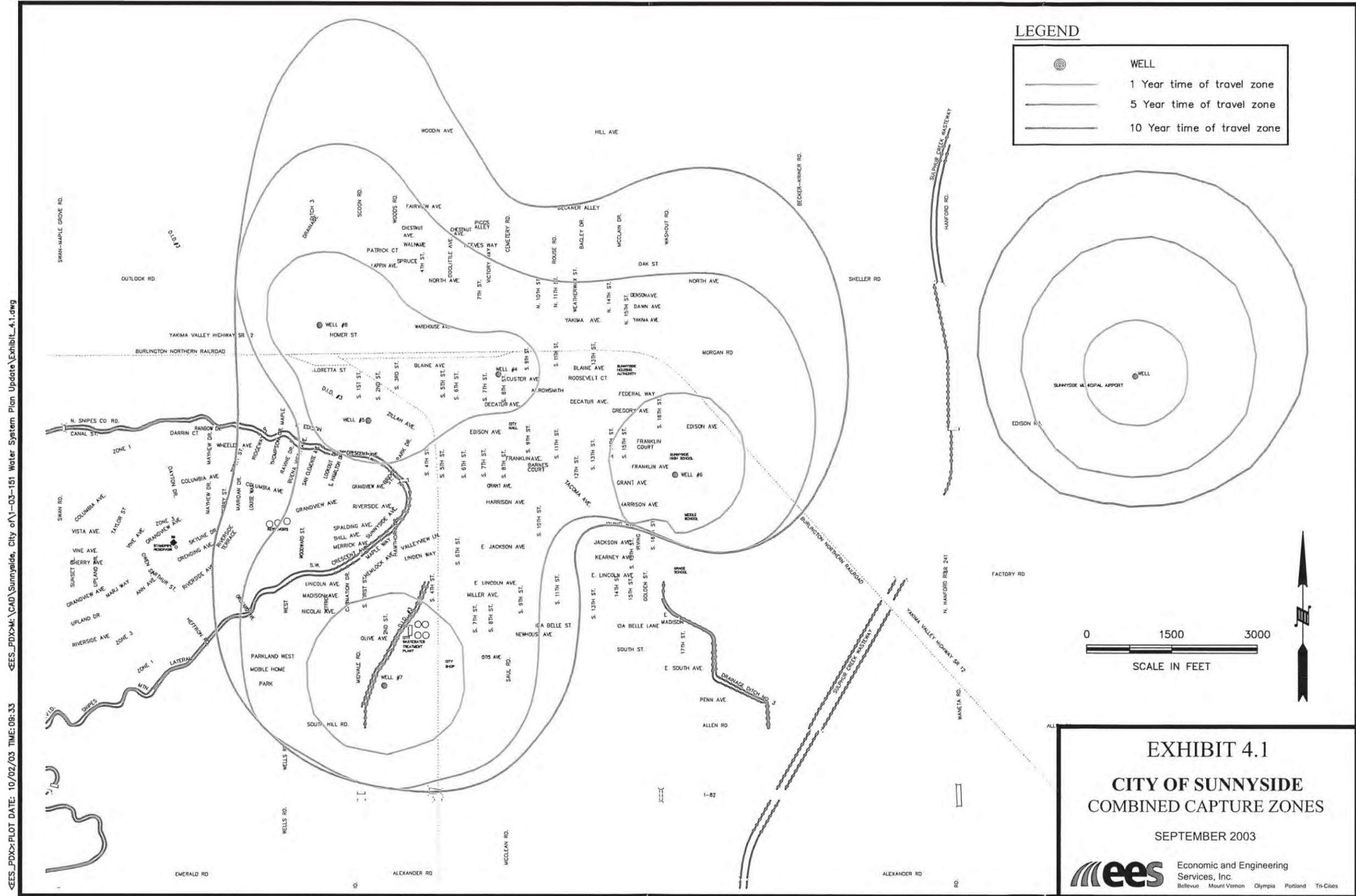
5.3 SPILL RESPONSE AND CONTINGENCY PLANNING

The Wellhead Protection Plan also includes a spill response discussion and a list of state and local support agencies, including contact information. The contingency planning explores short and long term alternatives in event of a source becoming unusable due to contamination. Both of these sections have remained current.

5.4 MANAGEMENT RECOMMENDATIONS

Both regulatory and non-regulatory approaches to minimize the threat of contamination to the City's sources of water and general awareness of potential contamination issues were included in the plan. The City continues to pursue these approaches in its various planning and public works programs.

Figure 5-1 Combined Capture Zones



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Figure 5-2 Vicinity Map

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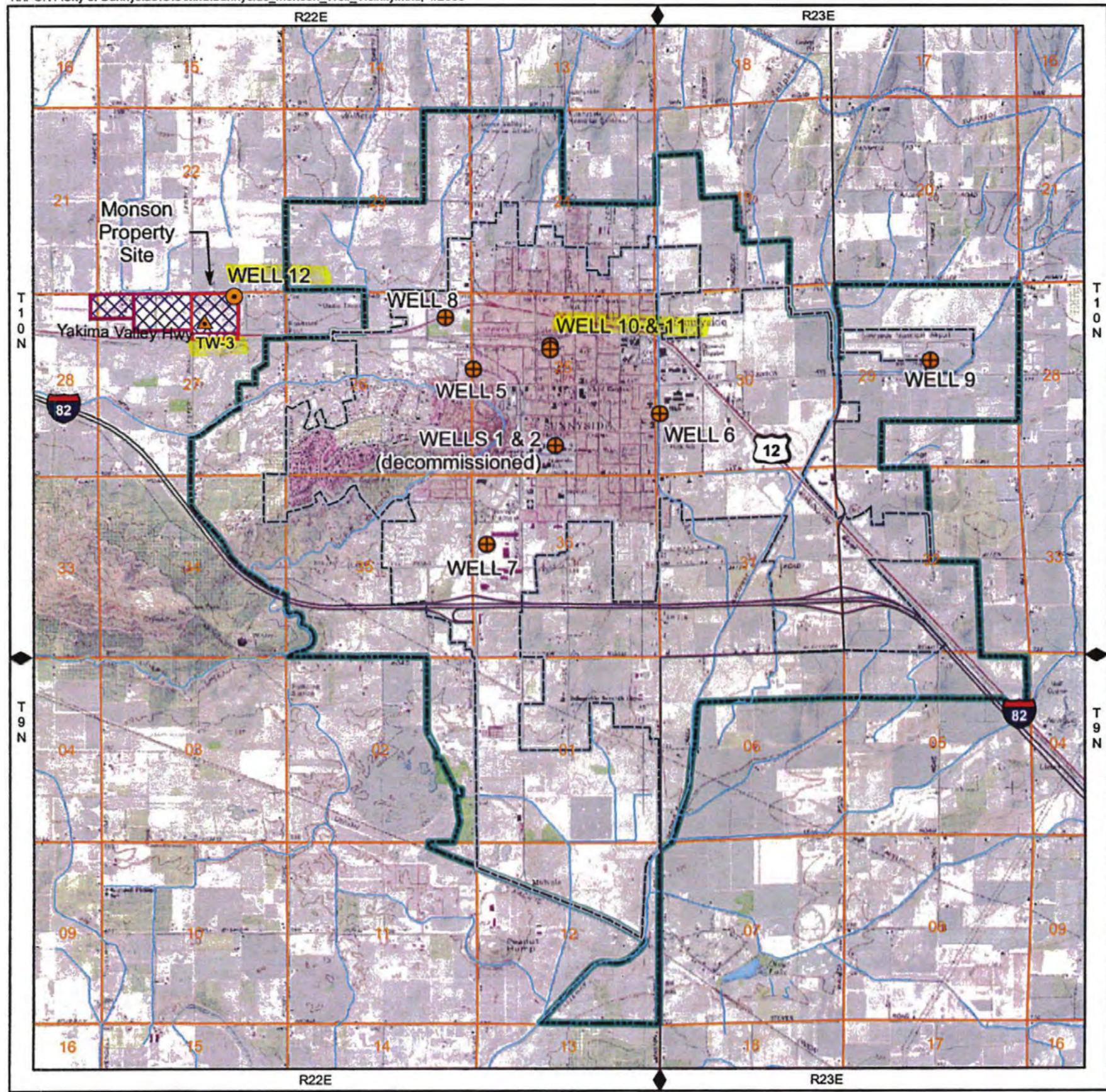


FIGURE 1
City of Sunnyside
Well 12 Vicinity Map

Sunnyside Well 12
 Construction & Testing Report
 May 2009



-  Local Quarter-Quarter Section
(NW of the NE, Section 27)
-  Parcels Owned by City of Sunnyside
-  Well 12
-  City Wells
-  Test Well
-  Streams and Aqueducts
-  Major Roads
-  City of Sunnyside
-  Urban Growth Boundary
-  Section Lines

0 1 Miles



0 5,000 Feet



1:50,000



Figure 5-3 Wellhead Protection Area for Wells 12 and 13

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