

Tonto and Cherry

Water Quality Assurance Revolving Fund ([WQARF](#)) Site

Boundaries:

The Tonto and Cherry WQARF Site (Site) is located in Payson, Arizona. The plume is a northwest-trending area, bounded by West Cherry Street to the north, South Colcord Road to the east, South Tonto Street to the west and West Frontier Street to the south.

The plume boundaries depicted on the [site map](#) represent the Arizona Department of Environmental Quality's (ADEQ) interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume may change in the future as new information becomes available.

Site Status Update:

In April 2010, [tetrachloroethene](#) (PCE) was only detected in one well (305 West Cherry) at a concentration of 1.6 micrograms per liter ($\mu\text{g/l}$). All wells at the Tonto & Cherry WQARF Site were below the [Aquifer Water Quality Standard](#) (AWQS) of 5.0 $\mu\text{g/l}$ for PCE.

Trichloroethene (TCE) and vinyl chloride (VC) were non-detect for monitor wells TC-1, TC-2, TC-3, TC-4 and the 305 West Cherry well. Cis-1,2-dichloroethene (c-1,2-DCE) was present at a concentration of 42 $\mu\text{g/l}$ in monitor well TC-4. The AWQS for c-1,2-DCE is 70 $\mu\text{g/l}$.

As indicated above, groundwater sample results indicate that monitored natural attenuation continues to work at this Site.

Community Involvement Activities:

A CAB was formed for the Site in conjunction with the [Payson PCE Site](#) and met on a regular basis throughout the remedial investigation process. Their final meeting was held in November 2008 where ADEQ presented the final ROD for the Site. The most recent [fact sheet](#) can be found on the ADEQ Web site.

Site History:

1984: Grand Way Cleaners (GWC) began operations at the Bonanza Square location.

1995-1998: In July and November 1998, ADEQ conducted a video inspection of the sewer line and collected soil and [soil vapor](#) samples where the video indicated breaks in the line. In 1997, PCE was detected in three domestic wells near GWC. In March 1995, ADEQ conducted soil and soil vapor sampling of the area around GWC.

2000: In September, [passive soil gas samples](#) were collected throughout the Bonanza Square property to identify the source area(s). Two potential source areas were identified: 1) beneath GWC, and 2) near the location of an abandoned septic system.

2001: In February, three groundwater [monitor wells](#) were drilled and installed. In November, three nested vapor wells and an angled groundwater monitor well were installed at the Bonanza Square property. Vapor samples collected indicated high concentrations of PCE beneath the GWC location.

2002: In September, the draft [Remedial Investigation](#) (RI) report was released for public comment.

2003: Concentrations of PCE have decreased since 1997. However, in March, concentrations of [trichloroethene](#) (TCE), cis-1,2-[dichloroethene](#) (cis-1,2-DCE), and [vinyl chloride](#) increased in the groundwater monitor well beneath GWC due to the breakdown of PCE.

2006: Concentrations of PCE in monitor wells at the Site have generally decreased from 24 µg/l in March 2001 to less than 5.0 µg/l in September. The AWQS for PCE is 5.0 µg/l. The RI report was finalized in October.

2007: Semi-annual groundwater sampling was conducted in March and September. The [Remedial Objectives](#) report and [Feasibility Study](#) report were completed in May and July, respectively. The draft [Proposed Remedial Action Plan](#) (PRAP) was prepared in September.

2008: The draft PRAP was finalized by ADEQ after going out for public comment, and a public meeting was held in July during the public comment period. The final ROD was presented during the CAB's last meeting in November. PCE concentrations in wells ranged from 2.1 µg/l to non-detect (<0.50 µg/l). All wells in the Site were below the AWQS of 5.0 µg/l for PCE.

2009: No activities occurred.

2010: ADEQ collected groundwater samples from five Tonto & Cherry wells in April 2010. PCE, TCE, c-1,2-DCE and VC concentrations in wells TC-1, TC-2 and TC-3 were all non-detect. In monitor well TC-4, concentrations of PCE, TCE and VC were also non-detect. However, c-1,2-DCE was detected at a concentration of 42 µg/L, well below the AWQS of 70 µg/L.

In late September and early October 2010, a second round of groundwater samples was collected at the Tonto & Cherry WQARF Site. Groundwater samples were also collected at the Payson PCE WQARF Site. However, at this time, ADEQ is waiting for the sample results.

Contaminants:

The current contaminants of concern in groundwater include [tetrachloroethene](#) (PCE) and [trichloroethene](#) (TCE). Contaminants of concern at the Site may change as new data becomes available. No drinking water wells are threatened by this contamination plume.

Public Health Impact:

The AWQS for PCE is 5.0 µg/l. As of the March 2008 groundwater sampling, all domestic wells in the Site are currently below the AWQS. The [Arizona Department of Health Services](#) (ADHS) stated in their health consultation that "...use of the water for domestic purposes other than drinking was not likely to cause any adverse health effects."

Site Hydrogeology:

The [aquifer](#) beneath the Site is in the Payson Granite. The hydrogeology of the Payson area has been defined in the Site Hydrogeologic Conceptual Model (HCM) based on drilling and testing activities.

The HCM identified three primary hydrologic units in descending order in the Payson Granite: 1) Alluvium/Colluvium, 2) Decomposed Granite/Fractured Granite, and 3) Variably Fractured Granite/Competent Granite.

Contacts:

Name	Phone/Fax	E-mail
Danita Hardy, ADEQ Project Manager	(602) 771-4191*/ (602) 771-4236 fax	dh2@azdeq.gov

*In Arizona, but outside the Phoenix area, call toll-free at (800) 234-5677.

Information Repository:

Interested parties can review select Site documents at the [Payson Public Library](#) located at 328 N. McLane Road, Payson, Arizona, (928) 474-9260.

The complete official Site file can be reviewed at the ADEQ Main Office located at 1110 W. Washington Street, in Phoenix. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment with 24-hour notice to review these documents. Once all documents requested have been collected, you will be contacted for a review Monday through Friday from 8:30 a.m. to 4:30 p.m. at the ADEQ Records Management Center, 1110 W. Washington Street in Phoenix, AZ.