

## **Central and Camelback**

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

#### **Boundaries:**

The [Central and Camelback Site](#) (Site) is bounded approximately by Missouri Avenue to the north, Central Avenue to the east, Pierson Street to the south, and approximately 600 feet west of Central Avenue as the western boundary.

#### **Site Status Update:**

The Arizona Department of Environmental Quality ([ADEQ](#)) was granted a renewal for its [National Pollutant Discharge Elimination System \(NPDES\)](#) permit for discharge to [Salt River Project's](#) (SRP) Grand Canal. A [soil vapor extraction \(SVE\)](#) system is now in operation and is removing PCE from the soil. ADEQ installed two groundwater monitor wells in May 2008. The annual carbon changeout at the Groundwater Treatment System occurred in April 2008.

#### **Community Involvement Activities:**

A [community advisory board](#) (CAB) has been formed for this site and meets on a regular basis. CAB members are only selected from [applications](#) that are received. These meetings are open to the public. Details of meeting agendas and minutes for 2007 and 2008 can be viewed at the [ADEQ Web site](#). The most recent [fact sheet](#) was mailed to residents within the community involvement area and can be viewed on the ADEQ Web site.

#### **Site History:**

**1999:** The Southwest corner Source Area (SCSA) portion of the Central and Camelback Site was placed on the [WQARF Registry](#) in January due to the detection of [tetrachloroethene](#) (PCE) in the groundwater. Concentrations were found to be as high as 20,000 parts per billion (ppb) in the area. The eligibility and evaluation (E&E) score for placement on the WQARF Registry was 31 out of 120.

**2000:** In June, the SCSA became listed as part of the Central and Camelback WQARF Site with an E&E score of 32 out of 120.

**2001:** ADEQ initiated an [early response action](#) (ERA) for the southwest corner source area (SCSA) portion of the Site to remediate groundwater contamination and control the migration of contamination into an underground parking garage located on the southeast corner of Central and Camelback. The ERA has consisted of the installation of four groundwater extraction wells which were completed in December.

**2003:** The groundwater remediation system located at 21 W. Camelback Road began [pumping and treating](#) contaminated groundwater at a rate of approximately 90 gallons per

minute (gpm) on January 22, 2003. The treatment system removes [volatile organic compounds](#) (VOCs) by passing the contaminated groundwater through [granular activated carbon \(GAC\)](#). The treated water is discharged primarily to the SRP Grand Canal and, during canal dry-out periods, to the City of Phoenix sanitary sewer. Periodic sampling of the effluent is conducted to assure that the treated water complies with discharge standards. Eleven groundwater monitoring wells were installed to delineate the extent of the PCE plume.

**2004:** The ERA evaluation of the Maroney's Dry Cleaners facility located at 4902 N. Central Avenue was conducted in June. Four nested [soil vapor](#) wells and one groundwater [monitor well](#) were installed during the ERA evaluation.

**2005:** Based on the results of an ERA evaluation, a SVE pilot test was conducted in January, and SVE was chosen as an effective remedy for the subsurface soil contamination at the former Maroney's facility. Wells at the former Texaco station located at the corner of Central Avenue and E. Colter Street had PCE detected in groundwater samples. The PCE detected in the Texaco station wells is not from the plume at the corner of Central Avenue and Camelback Road.

**2006:** ADEQ moved electrical boxes on the corner of Central Avenue and Camelback Road in front of the groundwater treatment system to make room for the Light Rail utilities. Two new wells were drilled at Medlock Drive and Orange Street to delineate the northern portion of the plume. ADEQ took over ownership of three COP wells at the southwest corner of Central Avenue and Camelback Road. These wells were drilled by the COP to characterize the Site for the [Light Rail](#) activities.

**2007:** ADEQ began the [remedial investigation](#) (RI) to determine the nature and extent of the contamination at the Site. Per A.R.S. §49-287.03, notices were sent to 12 interested parties initiating the start of the RI phase of work at this site. Three new wells were drilled – two south of the Site on Pierson Street and one on private property located at 15 W. Camelback Road in the proximity of the former Weiss Guys Car Wash location. The SVE system was installed and started operating in November 2007.

### **Contaminants:**

The current contaminants of concern in groundwater include [tetrachloroethene](#) (PCE), [trichloroethene](#) (TCE), [cis-1,2-dichloroethene](#) (cis-1,2-DCE), and [vinyl chloride](#). Contaminants of concern at the Site may change as new data become available. Other contaminants from past [underground storage tank](#) releases include: [benzene](#), [toluene](#), [ethylbenzene](#), [total xylenes](#), methyl tertiary butyl ether ([MTBE](#)), and 1,2-[dichloroethane](#) (1,2-DCA).

### **Public Health Impact:**

There is no known public health impact since municipal groundwater in the area is not used for drinking water purposes. The area is served by the [City of Phoenix](#) municipal water system or other regulated systems.

## Site Hydrogeology:

The depth to groundwater in the area is approximately 65-80 feet below ground surface (bgs). Water levels have declined due to the lining of the Grand Canal, the groundwater pumping at One E. Camelback Road, and the operation of the Site's pump and treat system. Groundwater flow in the Site area is to the north-northwest and is affected by pumping from the SRP irrigation wells and the groundwater pumping system at One E. Camelback Road.

## Contacts:

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

## Information Repository:

Interested parties can review site information at the ADEQ Main Office located at 1110 W. Washington Street, Phoenix. With 24 hour notice, an appointment to review related documentation is available 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, Arizona. Please contact (602) 771-4380 or (800) 234-5677 to schedule an appointment to review these documents.