

Park-Euclid

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

Boundaries:

The Park-Euclid Site (Site) is located east of downtown Tucson, Arizona and is bounded approximately by 8th Street on the north, Mountain Avenue on the east, 14th Street on the south, and Park Avenue on the west. The Site includes facilities located at both 299 and 301 South Park Avenue, where three companies have conducted laundry and dry cleaning operations since the late 1930s.

The plume geographic 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

ADEQ is currently completing the [remedial investigation](#) (RI). [Mission Uniform and Linen Service](#) (Mission Linen) continues to operate the [multi-phase extraction](#) (MPE) system at the facility.

Community Involvement Activities:

A [community advisory board](#) (CAB) was formed for the Site in March 2000. Details of meeting [agendas](#) and minutes for 2008 and 2009 can be viewed at the ADEQ Web site. These meetings are open to the public. The most recent [fact sheet](#) can be found on the ADEQ Web site.

Site History:

1990: During an early 1990 ADEQ investigation of diesel contamination in the area, a groundwater sample was collected from a well on the Mission Linen property. Analysis of the sample indicated that contamination was present in the well and was a combination of diesel product and [volatile organic compounds](#) (VOCs), including [tetrachloroethene](#) (PCE), [trichloroethene](#) (TCE) and [dichloroethene](#) (DCE).



Mission Uniform and Linen Service
on Park Avenue

1992: Mission Linen conducted a Phase I investigation which included soil gas sampling, groundwater sampling and the abandonment of an inactive water supply well.

1993: Mission Linen conducted investigations that focused on the [perched aquifer](#) and the installation of a short term pilot [soil vapor extraction](#) (SVE) system.

1994: Mission Linen began investigating the regional groundwater aquifer including the examination of potential hydraulic connections between the perched and regional aquifers.

1998: The [Environmental Protection Agency](#) (EPA) initiated Site assessment activities in the area with the installation of two [upgradient](#) perched groundwater [monitor wells](#).

1999: The Site was placed on the [WQARF Registry](#) with an eligibility and evaluation score of 51 out of a possible 120. In October 1999, ADEQ initiated an RI. As part of the investigation, ADEQ began sampling two [University of Arizona](#) (UA) water supply wells located [downgradient](#) from the Site.

2000-2001: In January 2000, three regional groundwater sentinel wells were installed south of UA's Main Campus to monitor groundwater conditions upgradient of UA's wells. In February 2000, EPA informally delegated responsibility for the Site to ADEQ through the RI/[feasibility study](#) stages.

In 2000, Mission Linen completed the installation of an SVE system beneath the facility at 301 S. Park Avenue. The pilot SVE system operated from June 2000 to August 2003 and removed approximately 6,000 pounds of PCE.

Since August 2000, monthly groundwater samples have been collected from the three sentinel wells. ADEQ is continuing to sample these sentinel wells and UA's water supply wells on a monthly basis to minimize the risk of drinking contaminated water. No PCE contamination above [Aquifer Water Quality Standards](#) (AWQS) has been detected in UA's water supply wells.

From November 2000 to February 2001, ADEQ installed 12 additional groundwater monitor wells to further characterize VOC and diesel contamination in the two aquifers underlying the Site. ADEQ conducted Site investigation activities within the [vadose zone](#) and shallow aquifer.

2002-2003: ADEQ installed an additional eight groundwater and three [soil vapor](#) monitor wells from May 2002 to February 2003. In February 2003, ADEQ conducted Site investigation activities that focused on the sewer near the Mission Linen property.

2004: In July, ADEQ released the Draft RI Report summarizing Site characterization activities. Also in 2004, Mission Linen expanded the pilot SVE system and continued remediation of the shallow soils beneath the facility. An additional 420 pounds of PCE were removed from the shallow soils by the existing SVE system.



**Monitor Well at the Site near
Historic Dry Cleaning Operations**

2006: In August, ADEQ completed the [Remedial Objectives](#) (RO) Report following the completion of the public comment period. The RO for land use

beneath Mission Linen is to restore soil conditions to the State's non-residential [soil remediation levels](#). The RO for drinking water use of groundwater from the regional aquifer is to protect the use of the groundwater supply of the UA and the [City of Tucson](#) from contamination from the Site.

2007: During 2007, ADEQ selected a new consultant to perform Site work. Periodic groundwater monitoring and sampling resumed along with monthly sampling of the UA production wells and ADEQ's sentinel wells.

2008: Mission Linen completed construction of the MPE system to remediate contaminants including PCE in the perched aquifer and upper vadose zone. The MPE system became operational in April. Also in April, ADEQ installed a deeper sentinel well at the UAM-2 well location. This well is used for monitoring a deeper portion of the regional aquifer near the UA wells.

Contaminants:

The current contaminants of concern in groundwater consist of VOCs, including [tetrachloroethene](#) (PCE), [trichloroethene](#) (TCE) and cis-1,2 [dichloroethene](#) (DCE). PCE, TCE, and 1,2-DCE are present in concentrations above the AWQS. Contaminants of concern at the Site may change as new data become available.

Public Health Impact:

A preliminary risk assessment was completed by the [Arizona Department of Health Services](#) (ADHS) in March 1995. Based on this ADHS assessment, there are no significant health risks associated with the Site at this time.

To assess potential risks to human health due to vapor intrusion into overlying businesses and residences, in February 2004 ADEQ conducted soil gas flux testing and sampling of soils overlying the contaminant plume in the perched aquifer to assess potential risks to human health due to vapor intrusion into overlying businesses and residences. Results of a screening health risk assessment indicated that VOCs migrating upward from subsurface soils and groundwater did not pose a significant risk to current or future off-site residential structures but could pose a significant risk to workers at the Mission Linen facility. Based on this risk assessment, Mission Linen performed ambient air quality sampling inside the Mission Linen facility that indicated vapor concentrations inside the building were significantly below applicable occupational health exposure limits.

UA operates three active production wells downgradient from the regional aquifer contaminant plume. No PCE contamination has been detected in these water supply wells. No one is known to be drinking contaminated water from this Site; however, if you are drinking water from a private well within the boundaries of the Site, please contact the ADEQ Project Manager.

Site Hydrogeology:

The Site is located within the Tucson Basin, a northwest trending [alluvial](#) valley covering an area of about 750 square miles in the Santa Cruz River drainage basin of southeastern Arizona. The

subsurface materials underlying the Site are predominately of fine to coarse-grained sands and silts, interbedded with clay and gravel-sized sediments. A clay [aquitard](#) of variable thickness occurs at around 100 feet below ground surface (bgs), underlying the perched aquifer.

Depth to the perched aquifer is about 90 feet bgs, and depth to the regional aquifer is about 200 feet bgs. The current flow direction in the regional aquifer is to the north/northeast.

Contacts:

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* In Arizona, but outside the Tucson area, call toll free (888) 271-9302.

Information Repository:

Interested parties can review select Site documents at the [Joel D. Valdez Main Library](#) located at 101 N. Stone Avenue in Tucson, (520) 594-5500.

The complete official Site file is located in Phoenix at the ADEQ Central Office at 1110 W. Washington Street; however, select documents are also available in Tucson at the [Southern Regional Office](#) at 400 W. Congress, Suite 433. Files are available for review Monday through Friday from 8:30 a.m. to 4:30 p.m. To arrange for a time to review the Site file at the main ADEQ office, please call the ADEQ Records Management Center with 24-hour notice at (602) 771-4380 or (800) 234-5677 (Arizona toll-free). Please call (520) 628-6715 to arrange a file review appointment at the Southern Regional Office.