

SITE REGISTRY REPORT
South Mesa
Baseline & McQueen Roads
Mesa & Gilbert Arizona
Maricopa County

The South Mesa site is a portion of the former South Mesa project area which was made a Water Quality Assurance Revolving Fund (WQARF) project in 1988. The site includes industrial, commercial, and residential areas. The site is bounded by the railroad on the west and south sides, Stapley Rd. on the east side, and 10th Avenue on the north. The plume, monitoring wells, and surrounding area are shown on the attached site map. As indicated on the map the groundwater flows to the North-Northeast; however, flow direction may vary when SRP wells are pumped. Depth to groundwater in the study area ranges from 110 to 130 feet. The Eligibility and Evaluation score for this site is 26.

Under the WQARF program the Arizona Department of Environmental Quality (ADEQ) conducted investigations at several facilities and installed 9 monitoring wells. These wells, together with 2 SRP wells, have been sampled quarterly for several years. Volatile organic compounds, primarily tetrachloroethylene (PCE) have been detected at concentrations exceeding Aquifer Water Quality Standards in 2 SRP wells and 4 of the monitor wells.

Two Remedial Action (RA) projects have been operated on this plume. These remedial actions have significantly reduced the concentration of PCE. The first was a stripper on a wellhead treatment system operated from 1994 through 1996 by SRP on their well at the NE corner of Baseline and McQueen Roads. When the concentration of PCE in the water pumped became less than the concentration regulated under the National Pollutant Discharge Elimination System (NPDES) operation of the stripper was discontinued (in late 1996). Pumping the well, to meet irrigation needs, has been continued.

The other RA operation was a Soil Vapor Extraction (SVE) system operated at a facility about 500 feet south-southwest and up gradient of the SRP well. PCE was found in soil samples taken at this facility. The SVE was operated several months in 1996 and a significant amount of PCE was extracted. After several months of no operation, the SVE was restarted in 1997, but after several weeks of operation only a slight amount of PCE was extracted, which indicates that additional SVE may not be cost effective.

No drinking water wells are threatened by this plume. The nearest drinking water well is approximately ½ mile north of the downgradient plume edge.

This Site Registry Report (SRR) is based upon information available as of the date shown. The SRR is intended as a historical document meeting the public notification requirements of ARS § 49-287.01 (B) and (D). Site boundaries depicted on the attached Site Boundary Maps represent ADEQ's interpretation of data available at the time the maps were constructed. The maps are

intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of the SRR. The actual extent of contamination may be different. Therefore the geographic boundaries for this site may change in the future as new information becomes available.

An updated SRR and associated Site Boundary Map will not be issued. As new information becomes available it will be made available for public review through placement in the public file.