

Site Contacts

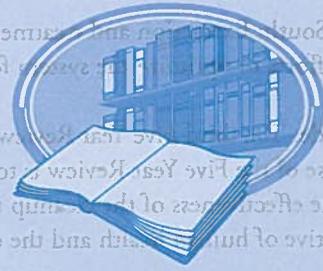
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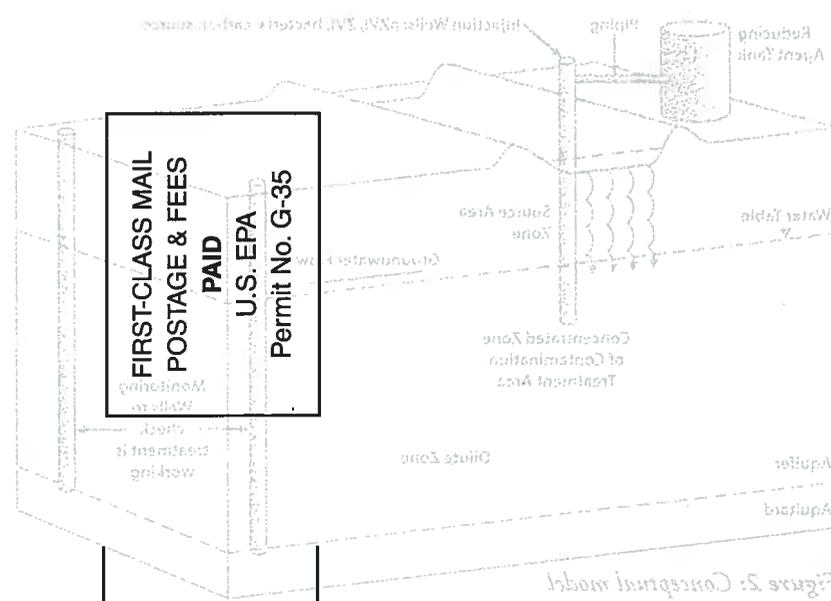


Site Repositories

City of Goodyear Library
14455 West Van Buren St.
Suite C-101
Goodyear, AZ 85338
(602) 652-3000

EPA Superfund
Records Center MC SFD7 - C
951 Hawthorne St Suite 403S
San Francisco, CA 94105
(415) 820-4700

www.epa.gov/region09/phoenix-goodyearairport
www.azdeq.gov/Phoenix-Goodyear_Airport_North.html
www.azdeq.gov/environ/waste/sps/Phoenix_Goodyear_Airport_South.html



United States Environmental Protection Agency, Region 9
75 Hawthorne Street (SFD-6-3)
San Francisco, CA 94105
Attn: Catherine Brown (PGA 2/15)

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Penalty for Private Use, \$300
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Phoenix-Goodyear Airport Superfund Site North and South Areas

February 2015

Cleanup activities at Phoenix-Goodyear Airport Superfund Site, North and South Areas continue (Figure 1). The U.S. Environmental Protection Agency (EPA), in conjunction with the Arizona Department of Environmental Quality (ADEQ), has an enhanced cleanup strategy at the Phoenix-Goodyear Airport – North (PGA-North) Superfund Site. This fact sheet provides important information regarding: 1) actions taking place intended to speed up groundwater cleanup for both areas; 2) announces the next Five-Year Review and; 3) the reorganization of the Community Advisory Group for the entire site.

About the Site

The PGA Superfund Site was originally listed on the National Priorities List in September 1983 as the Phoenix-Litchfield Airport Area Superfund Site. After the airport was transferred to the ownership of the City of Phoenix, the Site was renamed the Phoenix-Goodyear Airport (PGA) Area Superfund Site. Based on groundwater investigations which later identified two different sources of contamination, the Site was divided into two areas, PGA-North and PGA-South with different parties responsible for the cleanups.

PGA North: US EPA Starts New Phase of Work

In September 2014, EPA added an enhancement to the current remedy to address both contaminants of concern – trichloroethylene (TCE) and perchlorate (ClO_4) – in the shallow groundwater aquifer at the Main Drywells Source Area (Source Area). EPA's goal in proposing this enhancement is to augment the cleanup remedy for TCE and ClO_4 to shorten the time it will take to restore the aquifer.

The proposed additional remedial action focuses on the Source Area, where contamination levels in groundwater are the highest. EPA's proposal will employ the injection of in-situ chemical reducing agents which will be phased in over a multi-year period (Figure 2). Each phase will be completed in a two-step process.

1. The first step will involve the injection of solutions containing iron and carbon into the Source Area that will chemically break down the contaminants into non-toxic, more stable and/or less mobile forms and to create the right conditions for further breakdown of these chemicals.
2. The second step will use microbes to break down more TCE and perchlorate into non-toxic products, once conditions are appropriate.

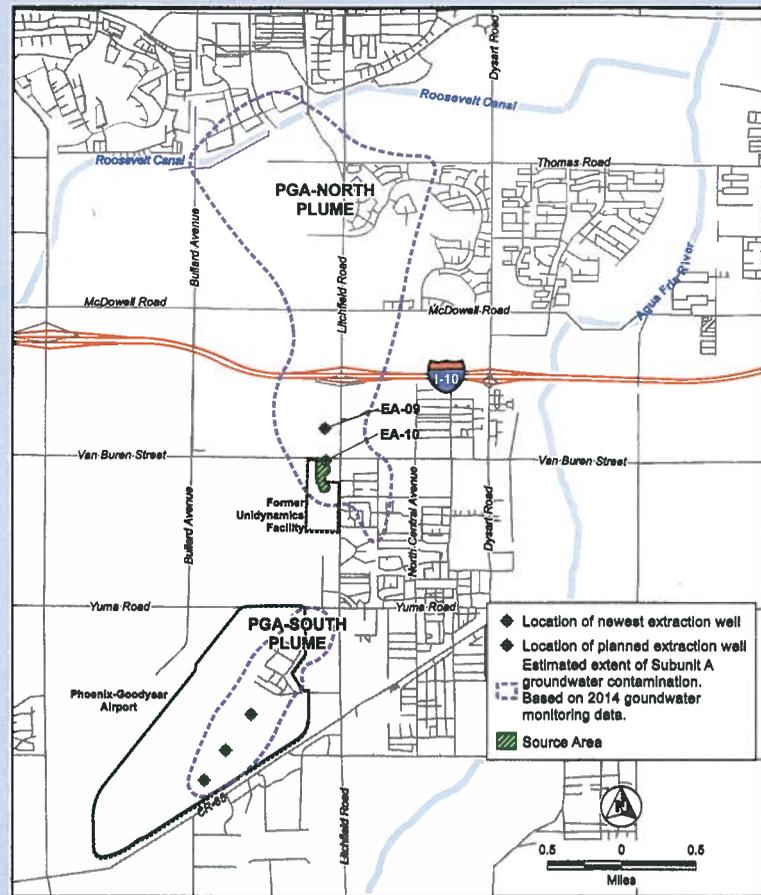


Figure 1: PGA Superfund Site

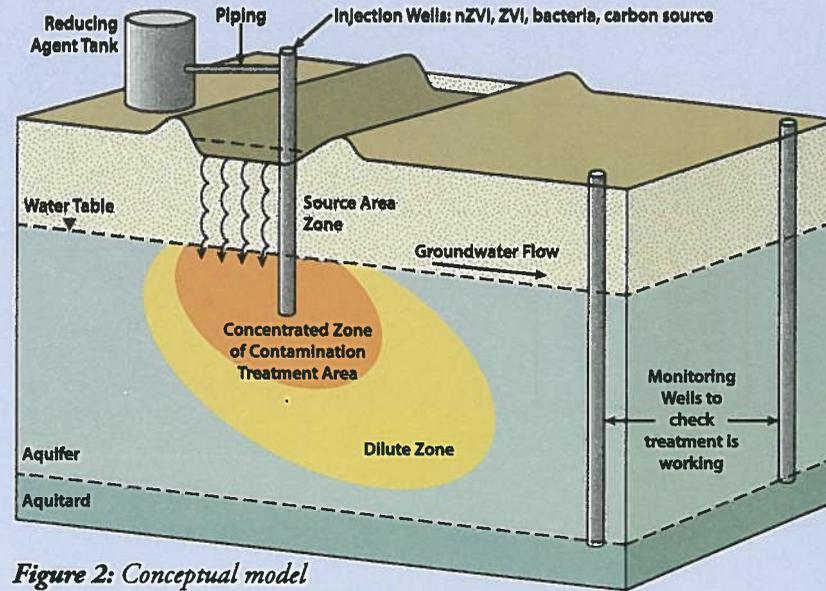


Figure 2: Conceptual model of Source-Area Treatment, PGA North

These methods have been used at other sites in Region 9 and have proven effective. In addition, the PGA North Site has successfully pilot tested in-situ chemical reduction of chlorinated solvents.

During and after the implementation of the remedial action in the Source Area, groundwater monitoring for treatment effectiveness will be conducted. The hydraulic barrier along and near West Van Buren Street provided by the existing groundwater extraction wells will remain in place to ensure that contaminants will not migrate down gradient. Also, an additional extraction and injection well, EA10 and IA09, will be added.

All of the activities proposed here will occur within the footprint of the existing Site. The enhancements proposed in the ROD Amendment are primarily intended to shorten the time necessary to complete the remedial action.

PGA-South: Enhancements to the Clean Up

The cleanup at PGA-South has been operating for 30 years with an overall system uptime of 94%. To date:

- more than 5900 pounds of TCE have been removed through three groundwater pump and treat systems.

- more than 16 pounds of chromium have been removed through a groundwater pump and treat system on Well E-17.
- more than 2500 pounds of TCE have been removed from the subsurface by the Soil Vapor Extraction system.

While there are no remaining source areas at PGA-South and the contaminant plume has long been contained through treatment (since 1994), ground water monitoring continues for wells at the site. In 2014, three key Subunit A Extraction wells were replaced with the intention of optimizing mass removal.

EPA and ADEQ are in discussions with the responsible party to examine other ways to accelerate the cleanup of the aquifer.

What Are the Next Steps in 2015?

PGA-North: A Remedial Design/ Remedial Action Work Plan was sent to EPA on December 1, 2014. The design and action plan describes how the enhancement to the remedy in the Source Area will be accomplished. After approval by EPA and ADEQ, the work plan will be posted on EPA's and ADEQ's website (links below).

PGA-South: Extraction and treatment of groundwater continues with efforts to optimize the system for contaminant mass removal.

Sitewide: The third Five Year Review will be conducted in 2015. The purpose of the Five Year Review is to evaluate the implementation and the effectiveness of the cleanup remedy to determine if it remains protective of human health and the environment.

How Can I Contact EPA and Get Involved?

EPA and ADEQ work hard to promote meaningful community involvement and our shared goal is to keep the community informed of current and planned site activities. In 2015, EPA will take steps to transition to a new EPA-led Community Advisory Group (CAG) with the goal of communicating Site activities. Residents of Good-year, Avondale or Litchfield Park who are interested in participating in this group should submit their names and addresses to Catherine Brown or Carlin Hafiz at the addresses listed on the opposite page.