

HWY 260 and Johnson Lane Water Quality Assurance Revolving Fund Site

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Drilling a groundwater monitoring well at a WQARF site.

This fact sheet is a publication of the Arizona Department of Environmental Quality (ADEQ) to inform community members near the Highway (HWY) 260 and Johnson Lane Water Quality Assurance Revolving Fund (WQARF) site of current site activities in Navajo County as per A.R.S. § 289.02. If you receive your drinking water from Arizona Water Company, your current drinking water is not affected by the groundwater contamination at the site.

A glossary of terms is located at the end of this fact sheet.

Site Description and Information

ADEQ recently added the HWY 260 and Johnson Lane site to the WQARF registry. The site is located in the Lakeside portion of the Town of Pinetop-Lakeside, Arizona. The site is generally bounded to the north by the Jackson Lane alignment, to the south by the east-west alignment of West White Mountain Boulevard (State Route Highway 260) and Burke Lane, to the east by the western

side of the Blue Ridge Unified School District property and Billy Creek, and to the west by the Neils Hanson Lane alignment (Figure 1, back page plume map). The site includes a mixture of public, commercial and residential land uses along State Route Highway 260.

During groundwater sampling in 2015, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in private wells on properties near the intersection of Highway 260 and Johnson Lane. Only PCE concentrations were above the Arizona Aquifer Water Quality Standard (AWQS) of 5 parts per billion (ppb). TCE concentrations were below the AWQS of 5 ppb.

Groundwater in this area is generally found at depths ranging from 10 to 150 feet below the ground surface. Based on historical and recent data, groundwater flow is to the northwest.

What are the contaminants at this site?

PCE is a manmade solvent commonly used in the dry cleaning process and as a degreaser in many industrial applications. TCE is a solvent primarily used in metal degreasing and cleaning operations and can also be a breakdown product of PCE.

Scope of Work, Outline of Community Involvement Plan, and Fact Sheet

Availability Notice Pursuant to A.R.S. §49-287.03 (c) (d), ADEQ is announcing the availability of the scope of work, outline of a community involvement plan and fact sheet for the HWY 260 and Johnson Lane site.

To obtain copies, contact Wendy Flood at (602) 771-4410; 1-800-234-5677 Ext: 6027714410

What is the Water Quality Assurance Revolving Fund?

The WQARF Program was established by Arizona law to:

1. Conduct statewide surface and groundwater monitoring
2. Study health effects
3. Perform early remedial actions
4. Conduct long-term remedial action programs

ADEQ established the WQARF Registry to include sites in Arizona where groundwater and/or soil contamination is present. Sites appearing on the WQARF Registry are managed by the WQARF Program for investigation and/or cleanup of contamination. The HWY 260 and Johnson Lane site was listed on the WQARF Registry due to the presence of PCE and TCE in groundwater beneath the site.

If you own or operate a private well within or near the site described above, please contact ADEQ and we can arrange to collect a sample from your well.

What are the health risks associated with contamination?

There are multiple privately owned domestic water wells within the boundaries of the site. People who drink water containing PCE or TCE over many years could experience problems with their liver and may have an increased risk of cancer. ADEQ is concerned that additional privately owned domestic supply wells may be impacted by groundwater contamination in the area of the site.

The evaluation of this area does not necessarily represent a determination that the release of a hazardous substance at the site poses a threat to human health or the environment. Arizona Water Company (AWC) public supply wells are located outside the current site bound-

aries, and 4 of 5 AWC public supply wells in the area access the deeper Coconino or "C" aquifer which is not affected by this contamination.

AWC regularly samples its Lakeside water system wells for PCE and TCE and none of these contaminants have been detected. According to the AWC, the water system wells are in compliance with all State and Federal Safe Drinking Water regulations.

What are ADEQ's Plans at this site?

ADEQ is currently conducting an Early Response Action (ERA) that includes evaluating options to address potential health risks. The site was listed on the WQARF (Water Quality Assurance Revolving Fund) Registry on June 24, 2016 with an Eligibility and Evaluation (E&E) score of 40 out of 120. ADEQ will begin the remedial investigation (RI) phase of the WQARF process to help determine the source of the contamination, as well as determine the depth and extent of groundwater contamination down gradient.

ADEQ will consolidate all the existing site characterization data, combined with a study of land and water uses in the area, into an RI Report. The site will then proceed through a feasibility study (FS) that will analyze potential cleanup methods for achieving the cleanup goals determined during the RI.

How can the public be involved?

As progress continues at the site ADEQ will keep the public informed through fact sheets and public meetings. Please sign up for our mailing list to be notified of site progress and to let us know if there are others who should be provided notice. Fill out and return the enclosed mailing information.

ADEQ is forming a Community Advisory Board (CAB) to advise ADEQ and the public of issues and concerns related to investigations and remediation of the site. The purpose of the CAB will be to:

- Provide comments to ADEQ on the remedial Investigation Report, and other cleanup and investigation issues related to this site;

- Represent a diversified cross-section of the community in and around the site;
- Participate in outreach to the community;
- Make site visits if needed.

CAB Members Needed

- Are you concerned about the environment and protecting public health?
- Do you live, work, own property or a business in the area of the site and/or are you interested in the site?
- Do you have a minimum of two hours, four times a year to volunteer?

If you answered yes to any of the questions and would like to apply to be a member of the CAB, please fill out and complete the enclosed application. For more information please call the ADEQ Community Involvement Coordinator listed at the end of the notice.

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FACT SHEET

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To request an auxiliary aid or service
for accessible communication, please
contact ADEQ at (602) 771-4791
or at HRhelp@azdeq.gov
or dial 7-1-1 for TTY/TTD Services.

For further information on this site or
other WQARF sites, please visit the ADEQ
web site at www.azdeq.gov. Click on
Waste Programs, then State Superfund
(WQARF), and follow the prompts for
the information you need. Information
about the Highway 260 and Johnson
Lane site is available at the ADEQ main
office located at 1110 West Washington.
Please call the Records Management
Center at (602) 771-4380 48 hours in
advance for a file review appointment.

GLOSSARY

Aquifer Water Quality Standard

These are enforceable standards set
to protect the quality of the water
in Arizona aquifers for present and
foreseeable uses, including con-
sumption of the water by humans.

Contamination

Any hazardous substance released
into the environment.

Early Response Action

A cleanup activity that is performed
prior to the final remedy and often
prior to the completion of the Reme-
dial Investigation because timeliness
of response is required to protect the
public health or environment.

Eligibility and Evaluation (E&E)

The Eligibility and Evaluation (E&E)
scoring model was established in
1996 pursuant to WQARF statute
49-287.01. Scores are derived from
information about the contaminant
release that is collected during the
preliminary investigation.

Feasibility Study

The evaluation of potential reme-
diation methods for achieving the
cleanup goals determined during a
remedial investigation.

Groundwater

Water found beneath the earth's
surface that fills pores between
materials such as sand, clay or gravel.
In aquifers, groundwater occurs in
sufficient quantities that it can be
used for drinking water, irrigation
and other purposes.

Remedial Investigation (RI)

An in-depth study designed to gath-
er the data necessary to determine
the nature and extent of contamina-
tion at a site and the risk posed by
the contamination.

Trichloroethene (TCE)

A heavy, colorless liquid used to
degrease metals, as an extraction
solvent for oils and waxes, as a
refrigerant, in dry cleaning and as a
fumigant.

Tetrachloroethene (PCE)

A clear, colorless, nonflammable sol-
vent that readily evaporates at room
temperature. PCE is widely used for
dry cleaning of fabrics and degreas-
ing/drying of metals.



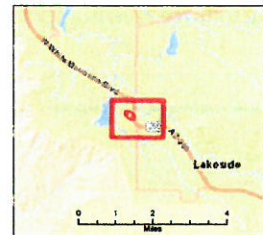
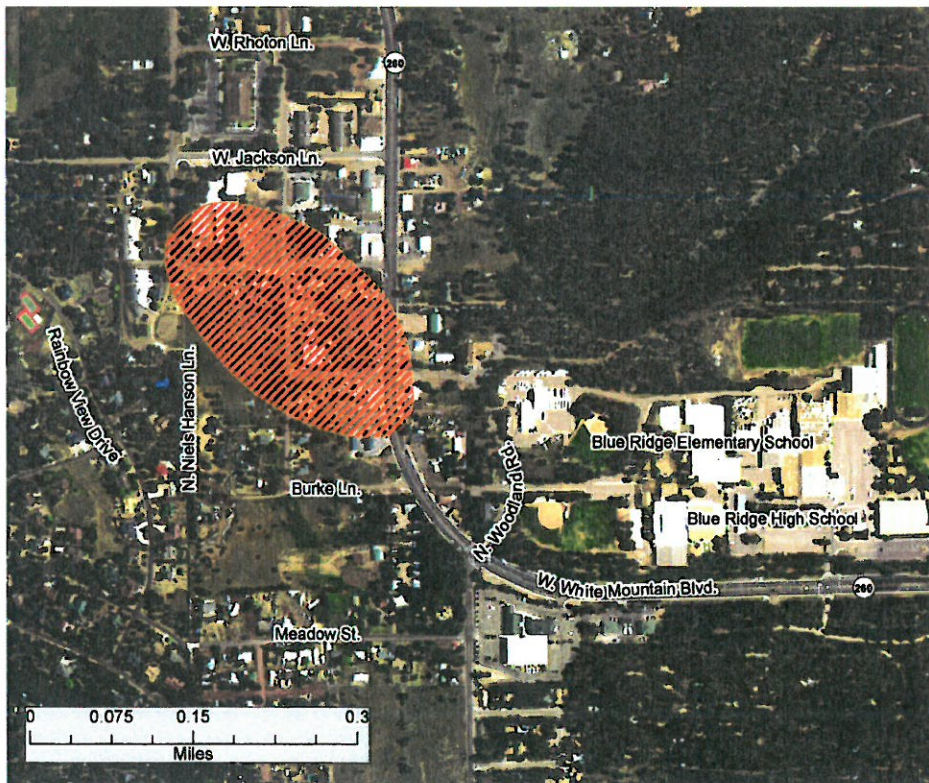
Community Involvement Coordinator
6th Floor, 1110 W. Washington Street,
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HWY 260 and Johnson Lane WQARF Site - Pinetop-Lakeside, Arizona



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Legend:

 Estimated Plume Boundary

Plume Data Update: 08/01/2015

Map Date: April, 2016

Publication Number M 16-29

Plume boundaries depicted on the site map represent ADEQ's 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 geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume for this site may change in the future as new information becomes available.

Figure 1 - Highway 260 and Johnson Lane Map