

**East Central Phoenix Water Quality Assurance Revolving Fund (WQARF) Sites
Community Advisory Board (CAB) Meeting**

Wednesday March 12, 2014

5:30 p.m. to 7:30 p.m.

**The Bridge – Aldersgate United Methodist Church
3850 N. 30th Street, Phoenix, AZ 85016**

DRAFT MINUTES

CAB members present: Laura M. Ruffalo, Randy Dahl, Janice Forwood, Karen Kay, Ed Rhodes and Jolene Morris, Jacquin Askin

ADEQ Staff in attendance: Charise McNamara, Project Manager and Wendy Flood, Community Involvement Coordinator (CIC)

Members of the public present: NONE

Call to Order and Welcome and Introductions – Meeting began at 5:40 p.m. CIC called meeting to order. Introductions were made by CAB Members and audience.

Accept and /or changes to the minutes of the November 13, 2013 CAB meeting - Ms. Ruffalo moved to accept the minutes; Ms. Askin seconded the motion. All were in favor, motion passed.

East Central Phoenix Six Sites Data and Activities Update (see attached presentation) - Ms. McNamara went over the investigation history of all six sites, focused source investigation and what was found in the preliminary investigation.

Mr. Dahl asked about new technological about vapor research/testing to find contamination rather than drilling and sampling to find contamination (like aerosol sniffer) and if information could be presented at the next meeting.

For 24th Street and Grand Canal – Samples have been collected and concentrations have gone down. CVS installed a groundwater well and found increasing levels. Sampling should begin in the next couple weeks as well as the completion of well installation. The hope is to better define the plume.

For 38th Street and Indian School – Ms. McNamara discussed some of the early response actions that took place. New wells are proposed to better define the plume and should be completed in the coming weeks.

Mr. Dahl asked what is being used to predict the plume. Ms. McNamara stated there are various models that are used to predict.

For 40th Street and Indian School – Ms. McNamara reported that concentrations are dropping and more wells are proposed to be installed to figure out what contamination is left. A soil vapor extraction system was also installed at the source.

For 40th and Osborn – Ms. McNamara stated the source is not as easy to find. Wells were installed and completed. Sampling is taking place to determine where the contamination may have come from.

A CAB member asked how the chemicals got into the ground. Ms. McNamara stated some is reported, some is actually dumped or leaked. In the past there was a lot of unknowns regarding chemicals and now we know what we are dealing with and there are more regulations.

32nd Street and Indian School - Ms. McNamara reported this site has two plumes. A soil vapor extraction (SVE) system (Maroney's) was installed and now is being used in a rebound manner. The Former Viking (second plume) site has lower water levels but a SVE system will be installed for the soil with a hopeful start of July or August 2014. In response to a question, Ms. McNamara gave some history on the past system that had been installed and why another is being installed.

48th Street and Indian School – Ms. McNamara reported that concentrations are dropping but a SVE system will be installed near Sandy's Cleaners that would be more robust than the previous system.

A CAB member inquired about activities in the area. Ms. McNamara stated that the SVE was in the process of being installed.

INDOOR AIR ASSESMENT

Ms. McNamara described how vapor intrusion works and gave a brief history of the investigation at 32nd Street and Indian School and 48th Street and Indian School as well as maps. ADEQ was able to get residents to participate in the indoor air assessment and used a 1 in million screening level after research of other area guidance. After two rounds (summer and winter) Ms. McNamara was happy to report there was low/none vapor intrusion potential. Those homes that showed minimal levels, ADEQ was able to connect items in the home that lead to the readings, therefore not related to the site.

She also explained how the sampling was conducted and that privacy was protected. ADEQ also created an Indoor Air Specific web site that was reviewed.

A CAB member asked about the budget for the site. Ms. Flood explained how the budget works and what happened over the years in regard to this site.

Discussion was held on the length of time of CAB boards and site clean up. A CAB member thanked ADEQ for doing the work in the area.

Charter Updates, Discussion and Vote

Ms. Flood and the CAB discussed the various changes to the charter. The CAB voted to accept the charter with the proposed changes.

East Central Phoenix CAB
March 12, 2014

CAB Roles and Responsibilities (see attached presentation)

Ms. Flood reviewed with the CAB the laws and rules that cover CABs, CAB roles, how CAB are to function, Open Meeting Law requirements and how CAB's assist the community.

Call to the Public –Ms. Flood read a resignation letter from Richard Siegel.

Next Meeting date and agenda topics –

The CAB decided to hold the next meeting on June 18th, starting at 5:30 pm at the high school if possible. Agenda topics/action items include:

- Is there a better system to check for contamination like the vapors before it gets into the water/soil
- Results of sampling that was conducted in the first half of 2014
- Pictures related to the site and equipment used at the site
- Site visit discussion
- Updates on the six sites
- CAB Co-Chair voting
- One page fact sheet for 24th Street for CAB member

Adjournment

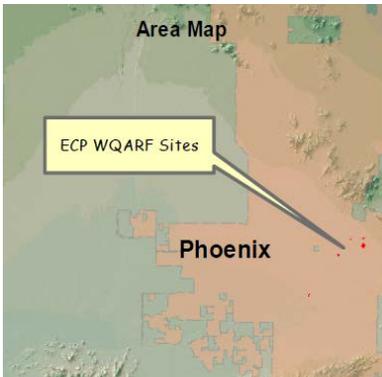
Ms. Ruffalo motions to adjourn and Ms. Askin seconds the motion. Meeting adjourned.



East Central Phoenix Water Quality Assurance Revolving Fund (WQARF) Site

Community Advisory Board Meeting

March 12, 2014



NAME

-  ECP 24TH STREET AND GRAND CANAL
-  ECP 32ND STREET AND INDIAN SCHOOL ROAD
-  ECP 38TH STREET AND INDIAN SCHOOL ROAD
-  ECP 40TH STREET AND INDIAN SCHOOL ROAD
-  ECP 40TH STREET AND OSBORN ROAD
-  ECP 48TH STREET AND INDIAN SCHOOL ROAD
-  Canals

 Location of SRP wells



24th Street and Grand Canal



Arizona Water Quality Standard
 for PCE is 5 ppb

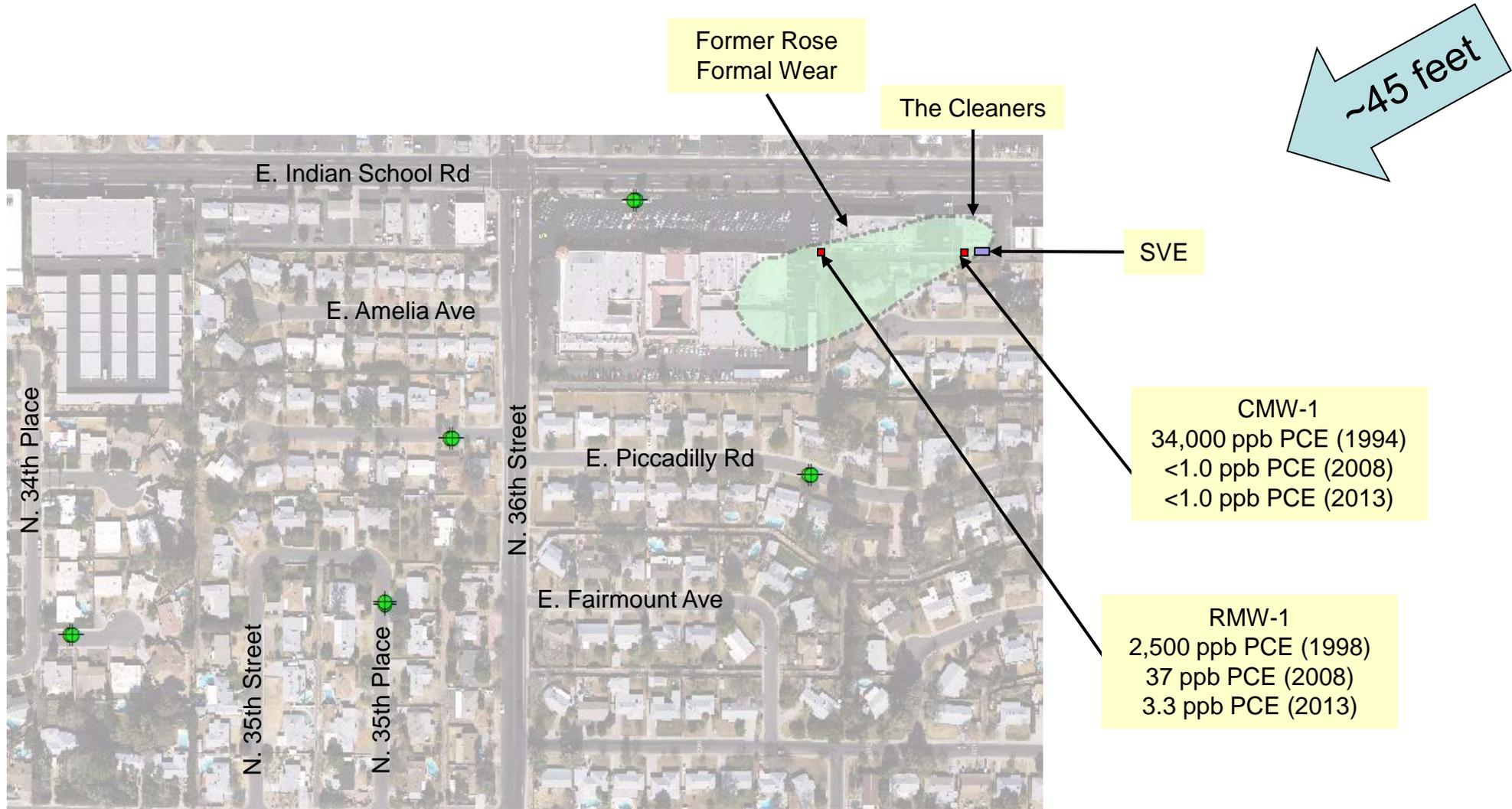
~85 feet

AS-1
 170 ppb PCE (2008)
 1,200 ppb PCE (2013)

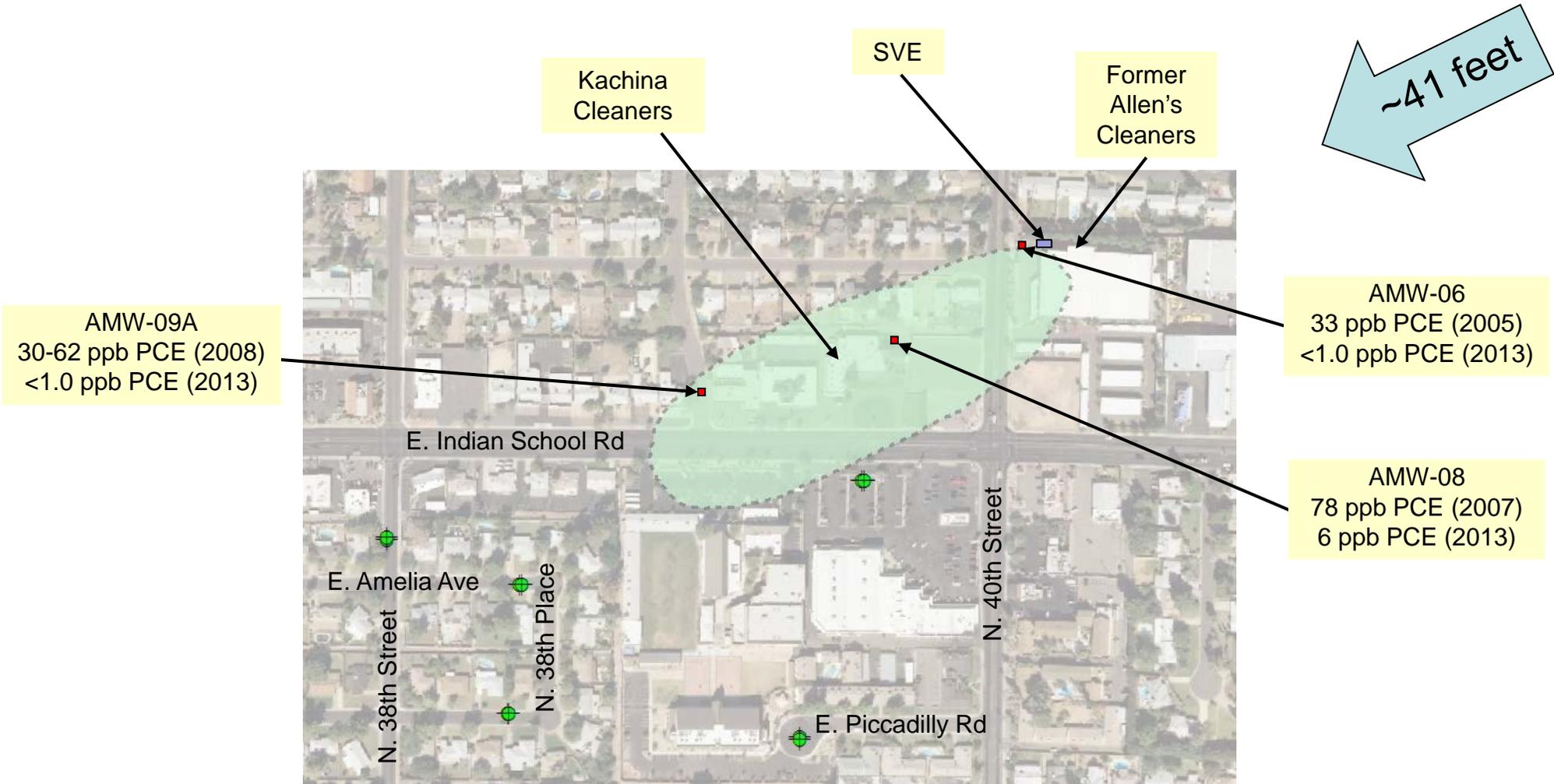
SRP Well
 12 ppb PCE (2008)
 2.5 ppb PCE (2013)

- Legend**
- SRP Production Well
 - Proposed Paired Groundwater Well Locations
 - Groundwater Plume

38th Street and Indian School Road



40th Street and Indian School Road



AMW-09A
 30-62 ppb PCE (2008)
 <1.0 ppb PCE (2013)

Kachina
 Cleaners

SVE

Former
 Allen's
 Cleaners

~41 feet

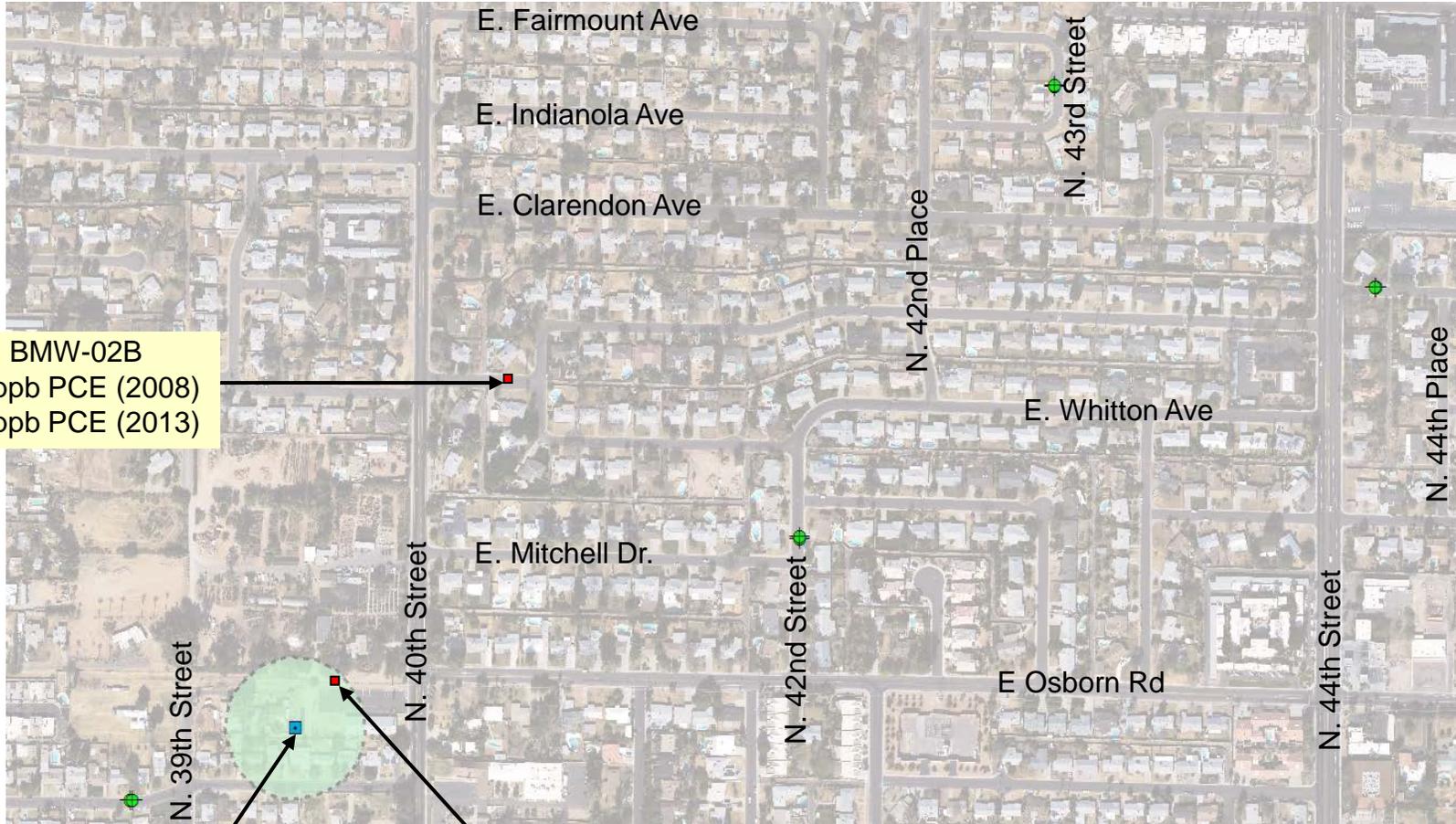
AMW-06
 33 ppb PCE (2005)
 <1.0 ppb PCE (2013)

AMW-08
 78 ppb PCE (2007)
 6 ppb PCE (2013)

Legend

- Proposed Paired Groundwater Well Locations
- Groundwater Plume

40th Street and Osborn Road



BMW-02B
 67 ppb PCE (2008)
 20 ppb PCE (2013)

SRP Well
 15 ppb PCE (2008)

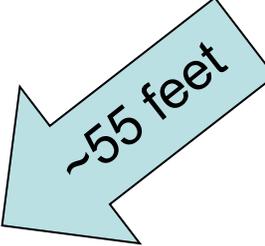
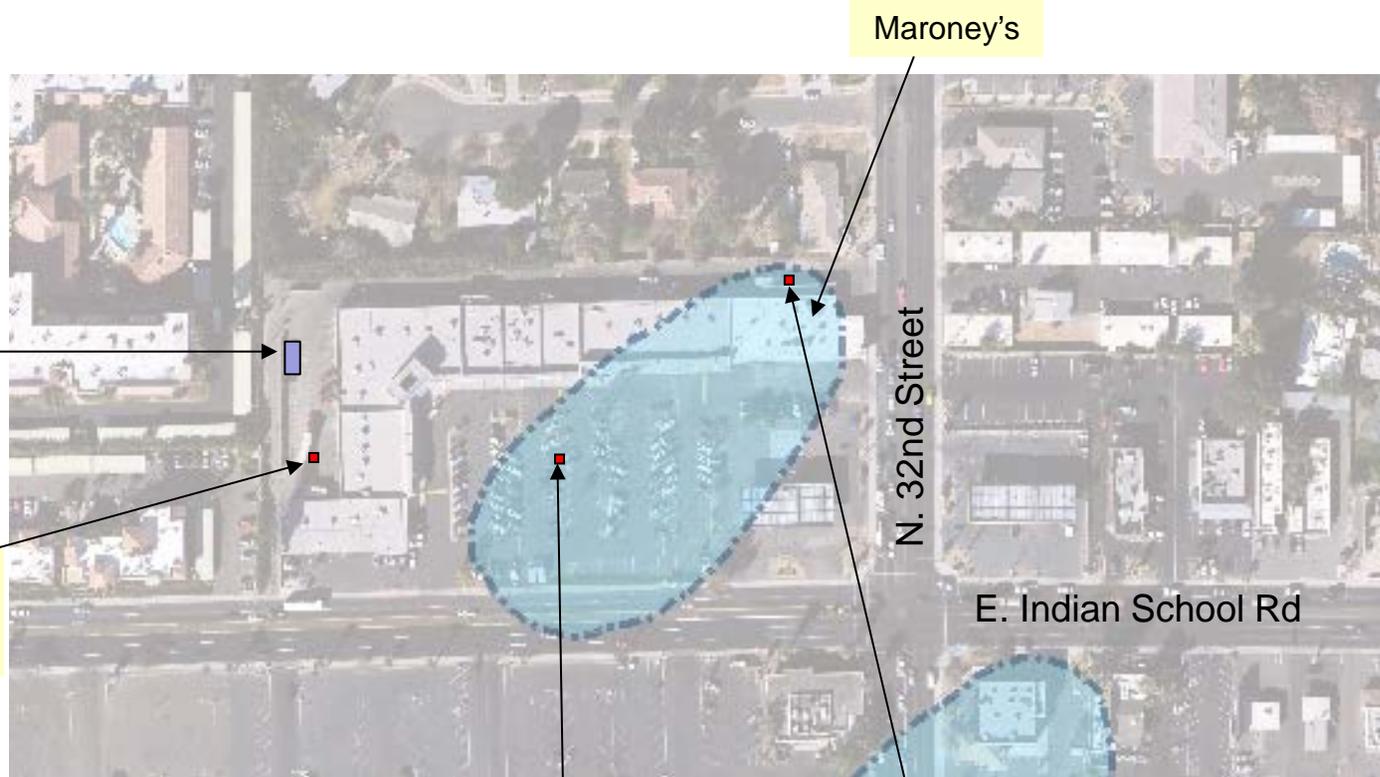
BMW-01B
 <1.0-2.4 ppb PCE (2008)
 <1.0 ppb PCE (2013)

~32 feet

- Legend**
- SRP Production Well
 - ◆ Proposed Paired Groundwater Well Locations
 - Groundwater Plume

32nd Street and Indian School Road

~55 feet

SVE

Maroney's

N. 32nd Street

E. Indian School Rd

MMW-05
 <1.0 ppb PCE (2006)
 <1.0 ppb PCE (2013)

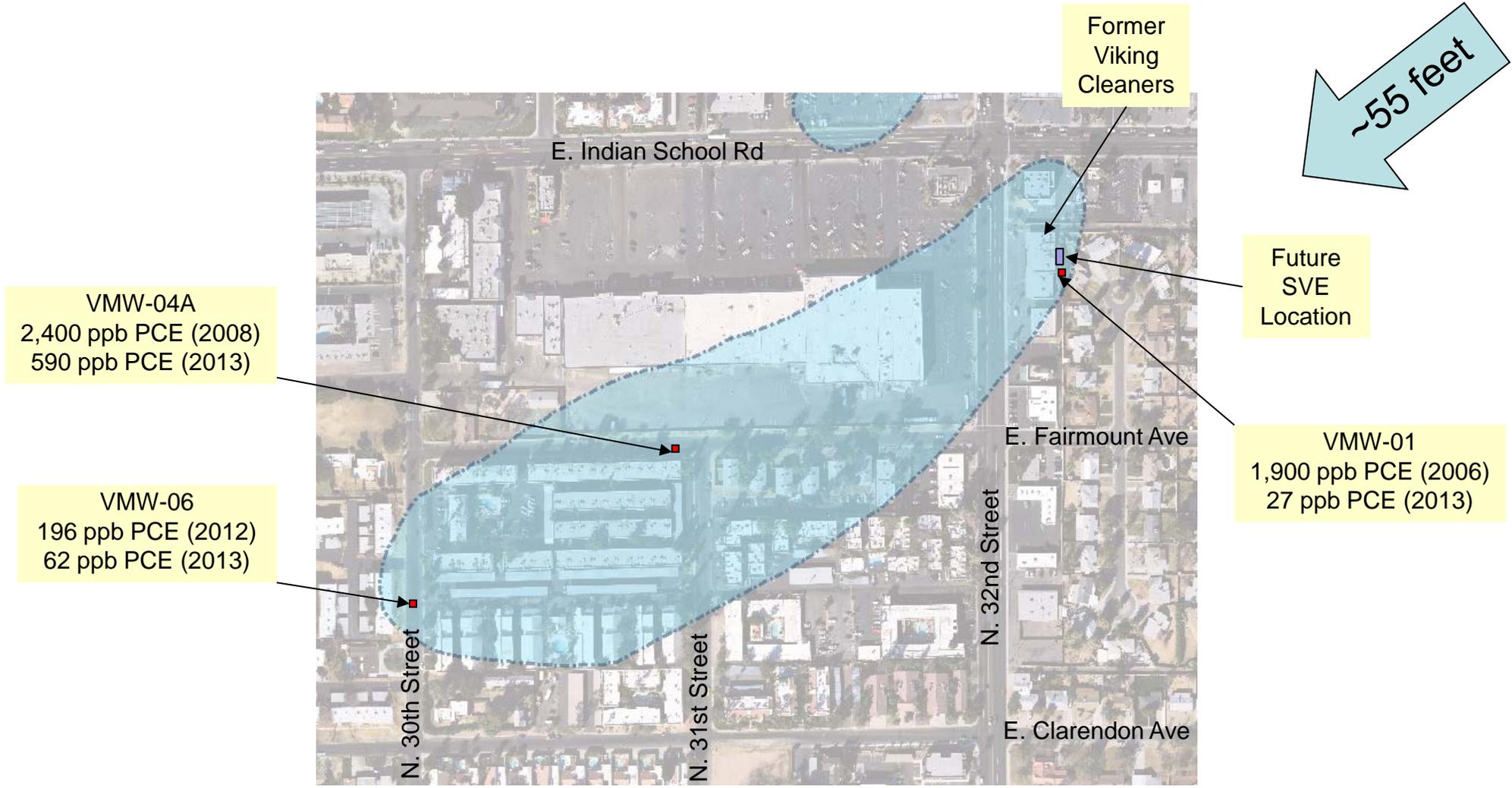
MMW-01
 34 ppb PCE (2003)
 9.3 ppb PCE (2013)

MMW-03
 180 ppb PCE (2008)
 4.6 ppb PCE (2013)

Legend

 Estimated PCE Groundwater Plume

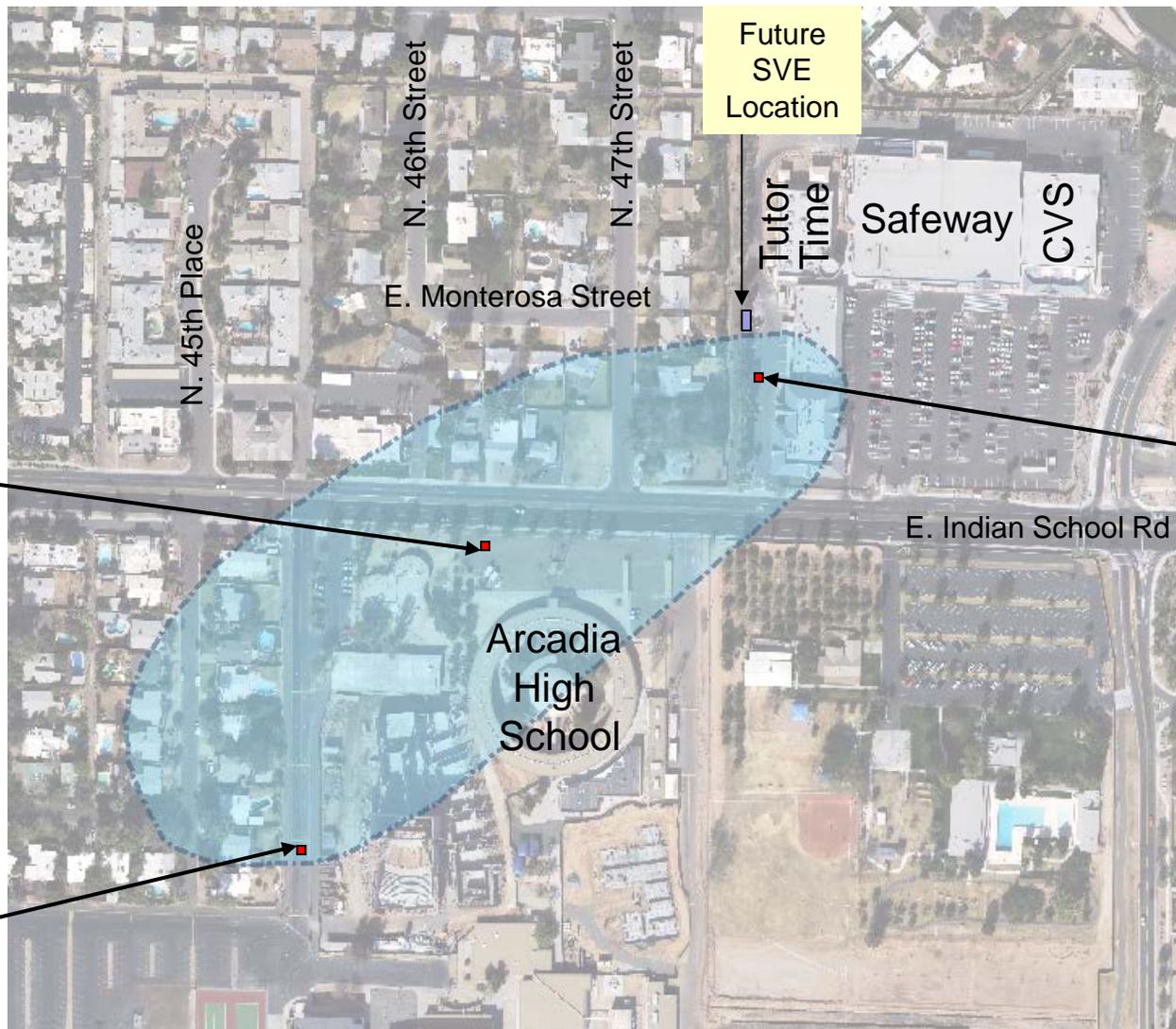
32nd Street and Indian School Road



Legend

Estimated PCE Groundwater Plume

48th Street and Indian School Road



~33 feet

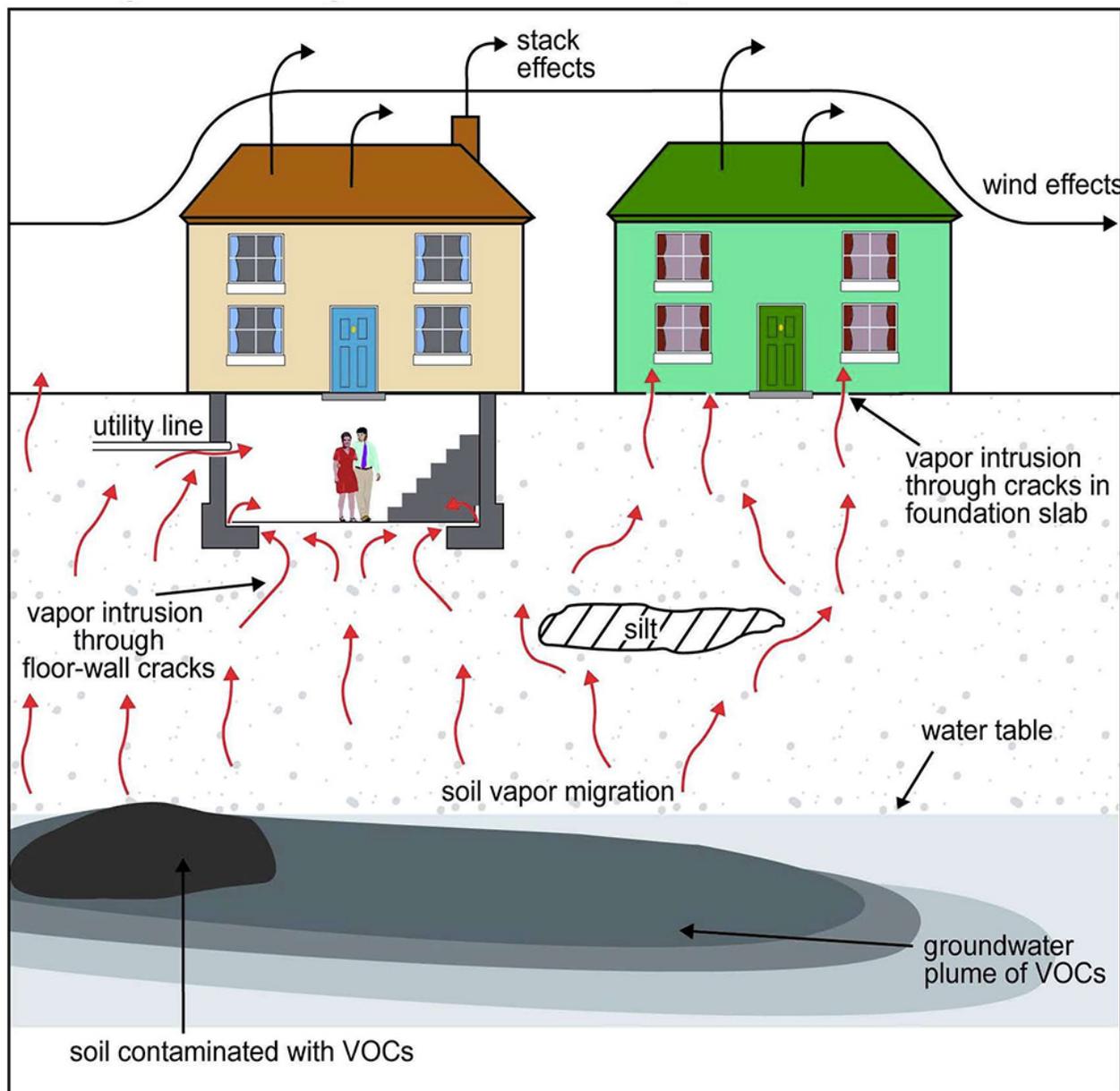
SMW-03
 33 ppb PCE (2008)
 1,200 ppb PCE (2012)
 95 ppb PCE (2013)

SMW-01
 6,200 ppb PCE (1997)
 480 ppb PCE (2008)
 1.8 ppb PCE (2013)

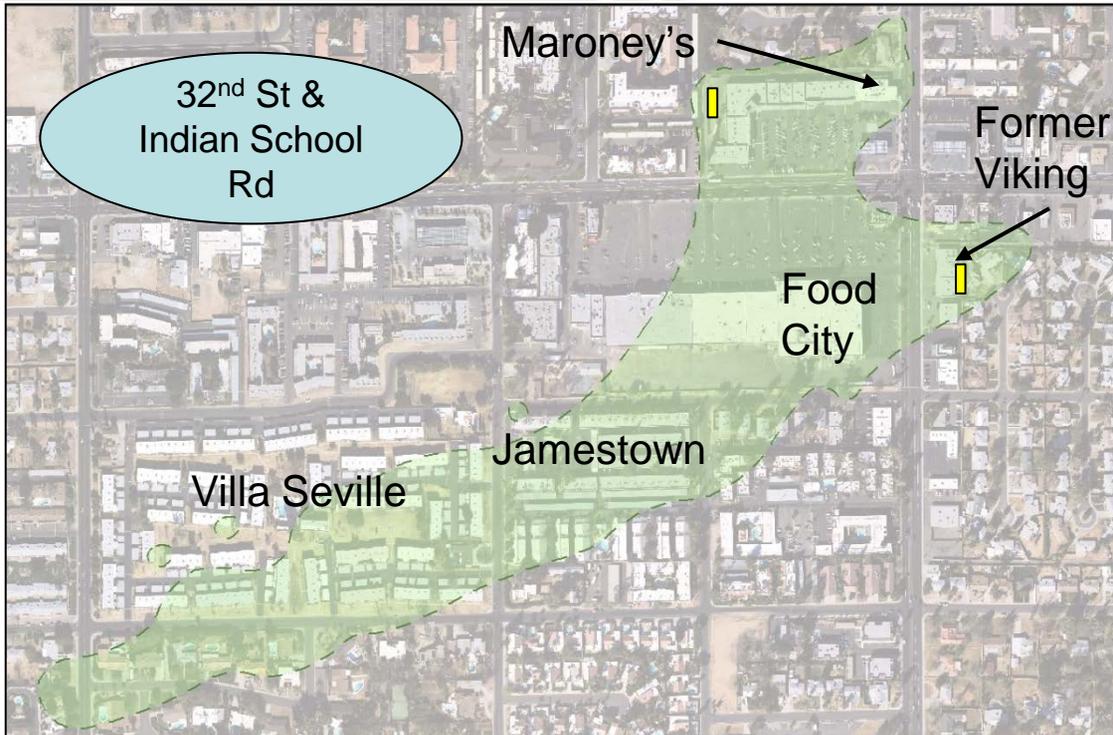
SMW-06
 4.6 ppb PCE (2012)
 <1.0 ppb PCE (2013)

Legend
 Estimated PCE Groundwater Plume

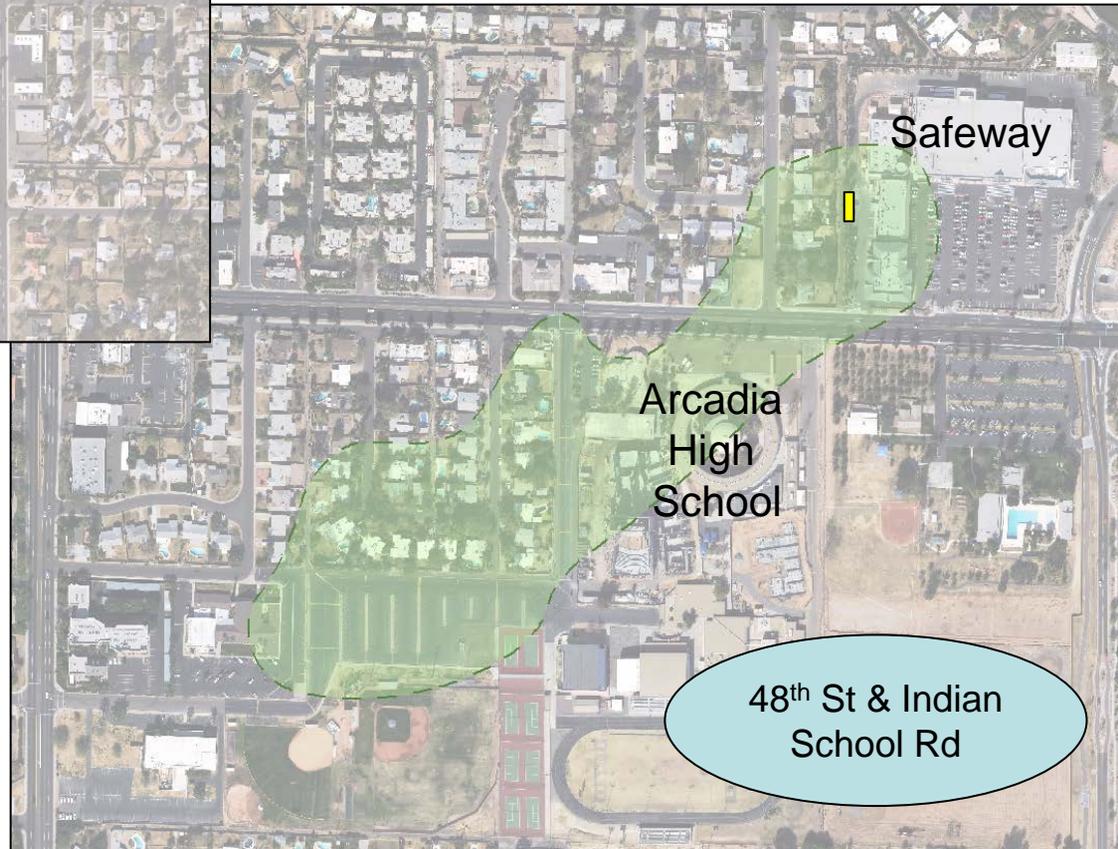
Indoor Air Assessment Update



Soil Vapor



Soil Vapor
 Screening
 Level for PCE:
 313 ug/m³



Legend

-  Estimate Soil Vapor Plume
-  SVE Locations

Vapor Intrusion Results

- Indoor Air PCE Screening Level
 - Arizona Screening Level = 9.4 ug/m^3
 - OSHA Screening Level = 41.7 ug/m^3
- Summer Sampling Event – August and October 2013
 - Summer Data Set – low vapor intrusion potential
 - Sampled 100 residences out of ~325
- Winter Sampling Event – February 2014
 - Winter Data Set – low vapor intrusion potential
 - Sampled 140 residences out of ~400
- Results held confidential – to be shared on an individual basis



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Introduction

[Site-Wide Groundwater Plumes Map](#)

Site History and Background

- 32nd Street and Indian School Road
- 48th Street and Indian School Road

[Project Documents](#)

[Vapor Intrusion Information](#)

[List of Indoor Sources](#)

[Handouts / Brochures](#)

[Process Flow Chart](#)

[Indoor Air Sampling Process](#)

Community Meeting Information

- [ADEQ Event Calendar](#)
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East Central Phoenix WQARF Site Indoor Air Assessment

The Arizona Department of Environmental Quality (ADEQ) is conducting an indoor air assessment/vapor intrusion study of the ECP Water Quality Assurance Revolving Fund (WQARF) site. Vapor intrusion is the movement of volatile organic compounds (VOCs) from subsurface soil and groundwater into the indoor air of buildings.

East Central Phoenix WQARF Program

The WQARF program, which is also known as the state's superfund program, funds and manages the investigation and cleanup of contaminated sites across Arizona. The ECP WQARF Site includes six areas of groundwater contamination. Two of those areas are the subject of our current indoor air assessment study area. These are 32nd Street and Indian School Road and 48th Street and Indian School. The groundwater under the two study areas is located between 32 feet and 55 feet below ground surface and is not a source of drinking water for residents of this area.

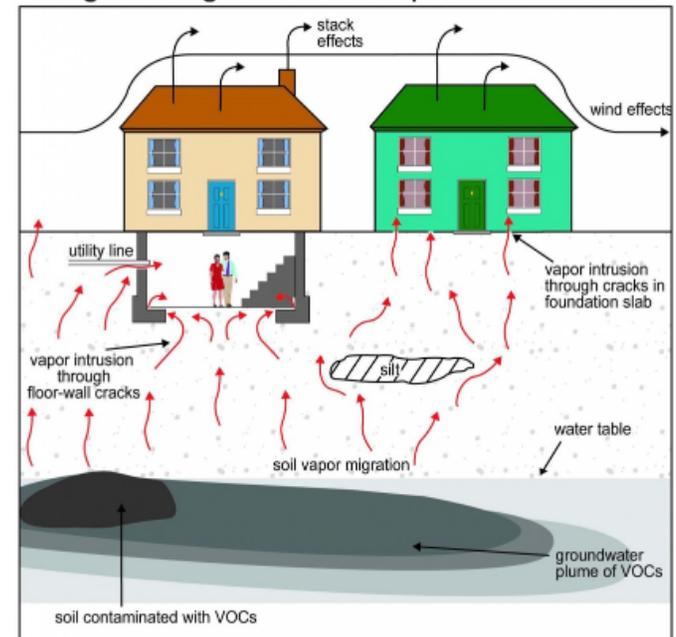
What are the Contaminants at the Site?

Currently the main contaminant of concern within the ECP WQARF Site is tetrachloroethene (also known as PCE). PCE is a solvent widely used for dry cleaning and metal degreasing. Contaminants of concern (COCs) at the site may change as new sampling information becomes available.

Soil Vapor Sampling and Vapor Intrusion/Indoor Air Assessment

Vapor intrusion can occur when vapors from contaminated soil and/or groundwater travel through soil and enters a home through small cracks in the foundation or areas where pipes enter the home for utilities. Atmospheric conditions and building ventilation are some factors that can influence vapor intrusion. This process is illustrated in Figure 1 to the right.

Figure 1. Migration of Soil Vapors to Indoor Air



This figure depicts the migration of volatile chemicals from contaminated soil and groundwater plumes into buildings. Volatile chemicals are shown to enter buildings through cracks in the foundation and openings for utility lines. Atmospheric conditions and building ventilation are shown to influence vapor intrusion.

As a CAB member, what can you do to help?

- Share information with neighbors, groups, family, and friends about the Site
- Communicate questions or concerns with ADEQ
- Call Wendy or Charise with questions or suggestions
 - What do you want to know or learn?
- Keep attending CAB meetings!





East Central Phoenix

Questions?

Charise McNamara

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