

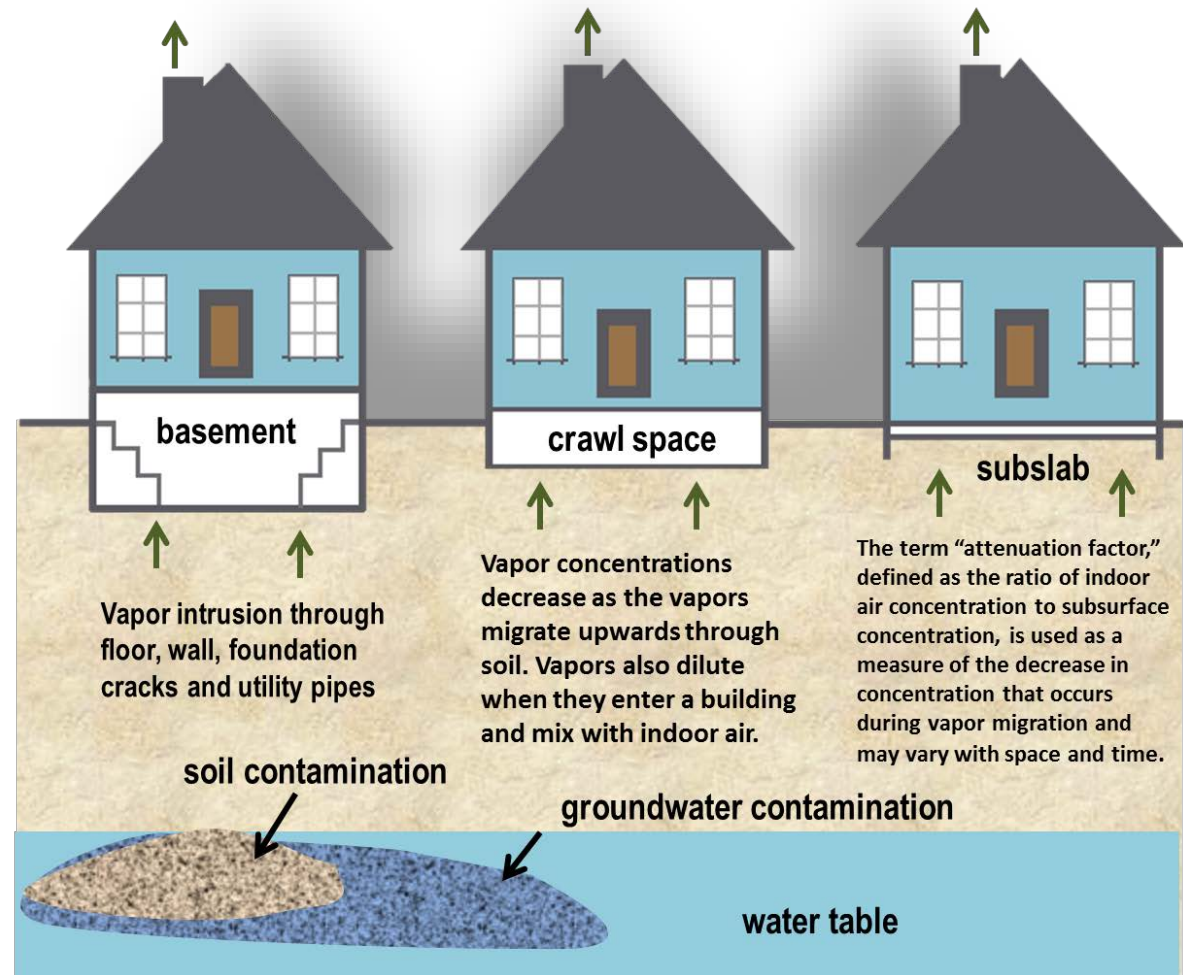


East Central Phoenix Water Quality Assurance Revolving Fund (WQARF) Site

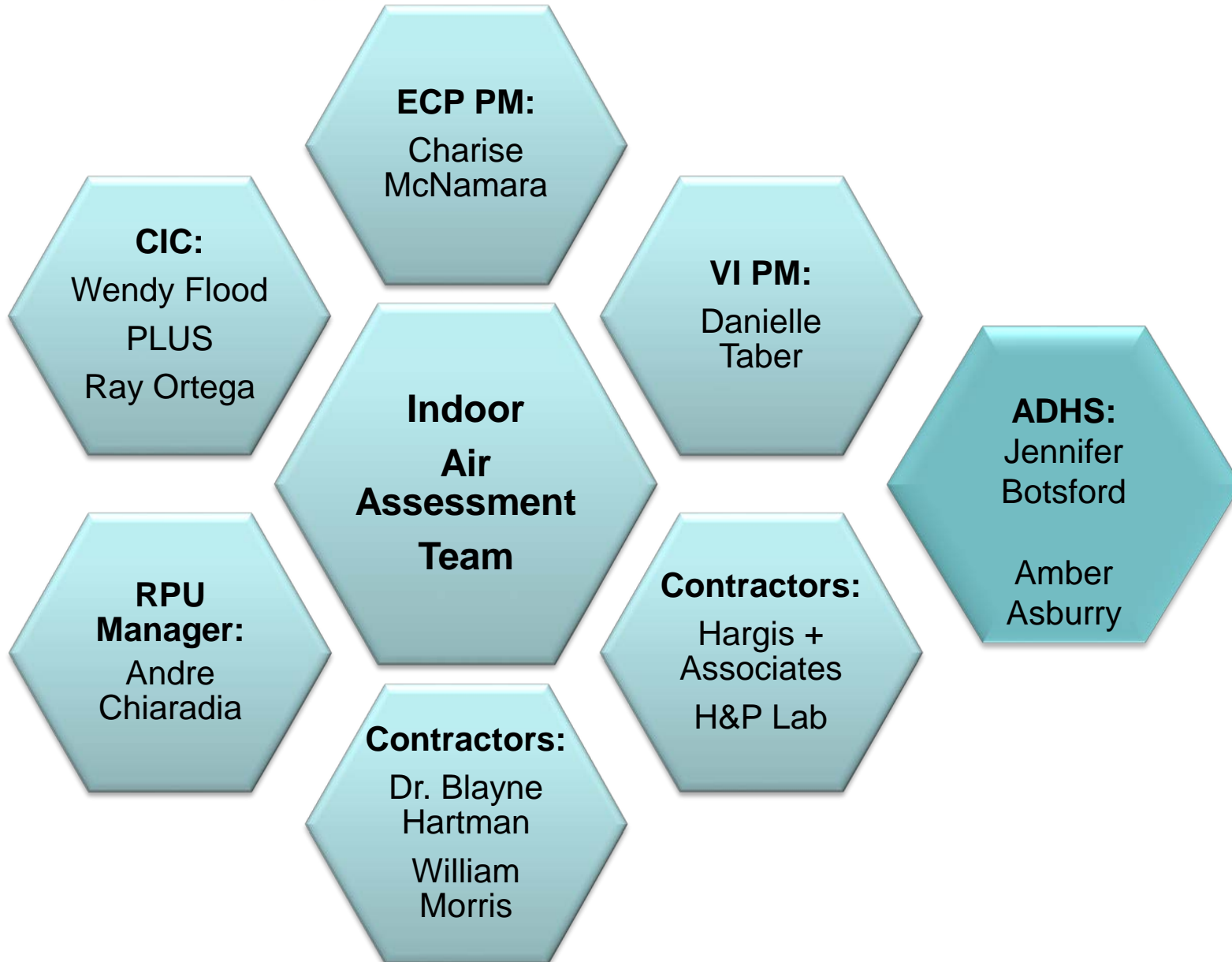
OPEN HOUSE

August 13, 2013

- Introductions
- History
- Vapor Intrusion
 - What is it?
 - How did we get here?
 - How do we test for it?
 - What if we find PCE and/or TCE?
- Contacts
- ADHS Presentation



Introductions



A Little History

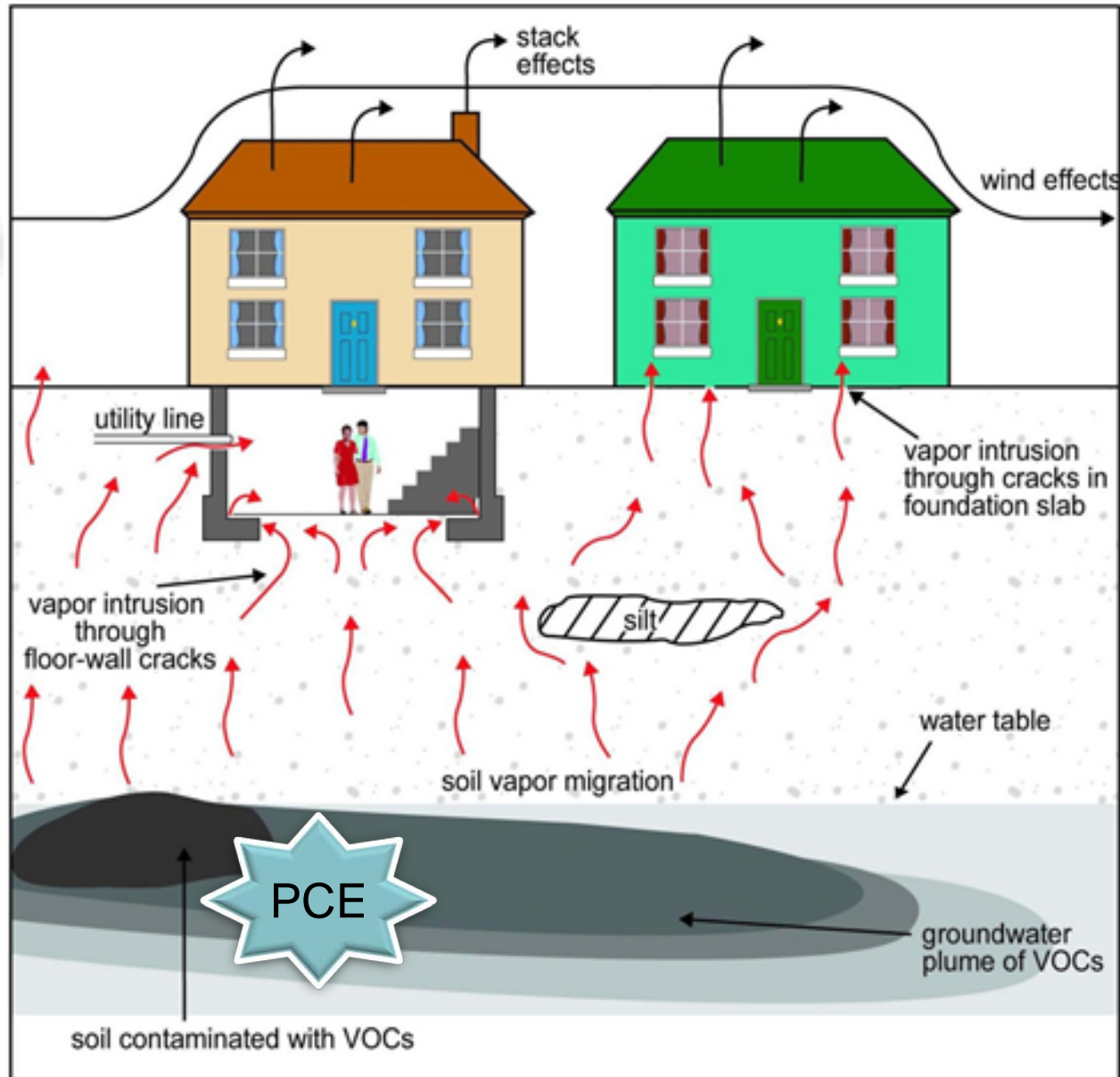
- ECP was placed on the WQARF Registry list in 1987
 - SRP reported **groundwater** contamination in 3 irrigation wells
 - ADEQ created 6 separate sites
 - Groundwater:
 - Tetrachloroethene (PCE) is the main contaminant of concern
 - Trichloroethene (TCE) and BTEX (gasoline) is present at the former Viking Cleaners
 - Soil Vapor:
 - PCE is the main contaminant of concern
 - **TODAY:**
 - 32nd Street and Indian School Road and 48th Street and Indian School Road
- Community Outreach:
 - February 2013 [site-wide fact sheet]
 - July 2013 [CAB meeting and targeted mailer]
 - August 2013 [Door-to-Door]
 - <http://www.azdeq.gov/environ/waste/sps/phx.html>

Vapor Intrusion

What is it?

EPA's definition:

Vapor intrusion is defined as vapor-phase migration of volatile organic compounds or volatile inorganic compounds into occupied buildings from underlying contaminated groundwater or soil.



Vapor Intrusion

How did we get here?

Remedial Investigation →

Multiple Lines of Evidence (MLEs)

1. Groundwater Investigations/Monitoring
 - i. Shallow + VOCs
2. Collect Shallow Soil Vapor Samples
 - i. Phase I: Summer 2012
 - ii. [Phase II: Summer 2013]
3. Ran EPA's Johnson & Ettinger 'model'
 - i. Limited; conservative; developed in ~2002
4. Compare data to generic Soil Vapor Screening Levels
 - i. Based on 70 year exposure scenarios

32nd St &
Indian School

48th St &
Indian School

Study
Areas

What if
MLEs line up?

then

VI **Potential**

Vapor Intrusion

Indoor and Ambient Sources

How do we
test for VI?

Stainless Steel
Summa® Canisters
Some Residences

1 in10



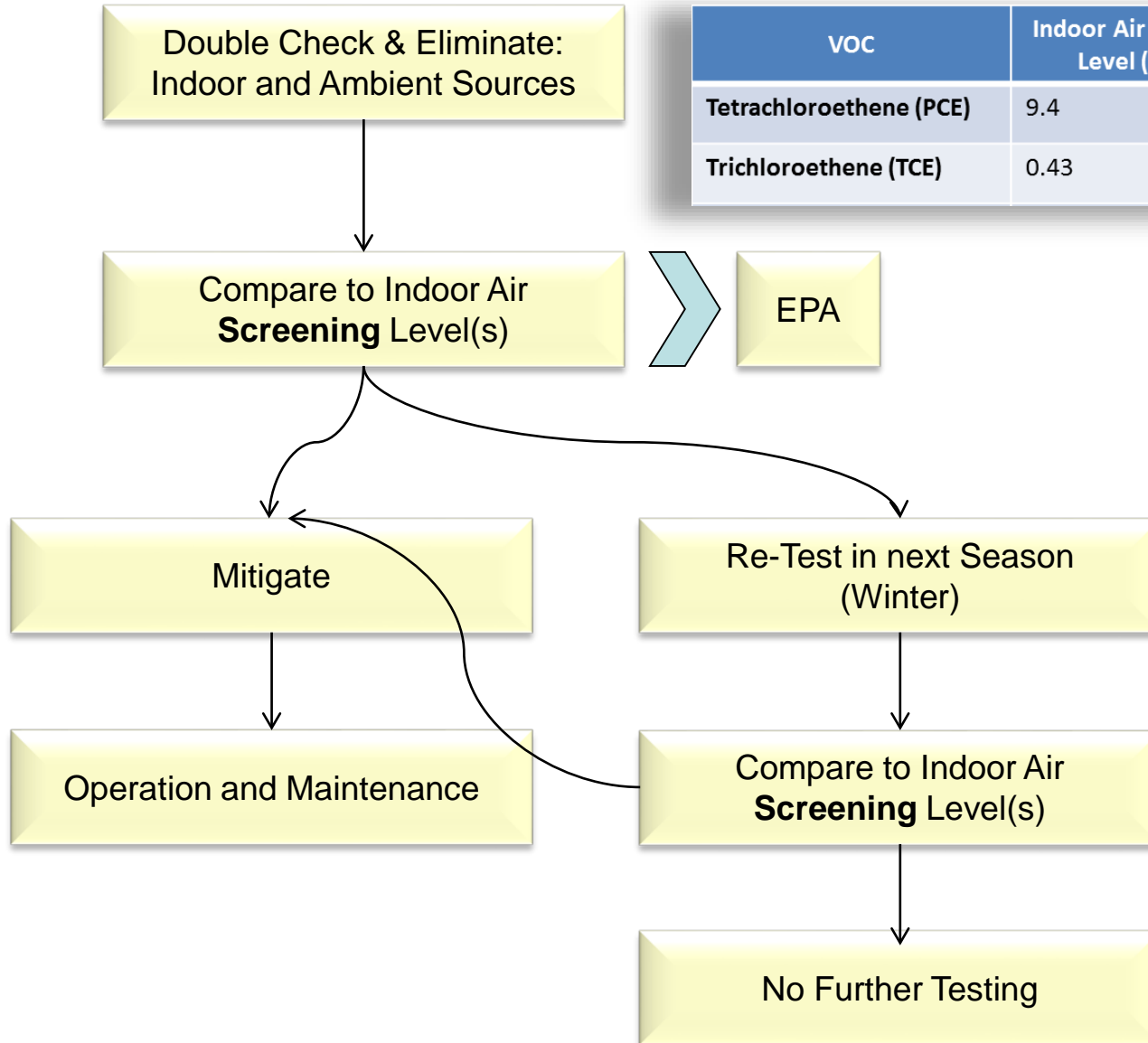
Gas Tight Glass
Syringe

Every Residence



Vapor Intrusion

VOC	Indoor Air Screening Level (μ/m^3)	Background Levels for U.S.* (μ/m^3)	Background Levels for Phoenix ** (μ/m^3)
Tetrachloroethene (PCE)	9.4	<0.03-2.2	<0.18-1.43
Trichloroethene (TCE)	0.43	<0.02-1.1	<0.09-0.42



What if we find PCE &/or TCE?

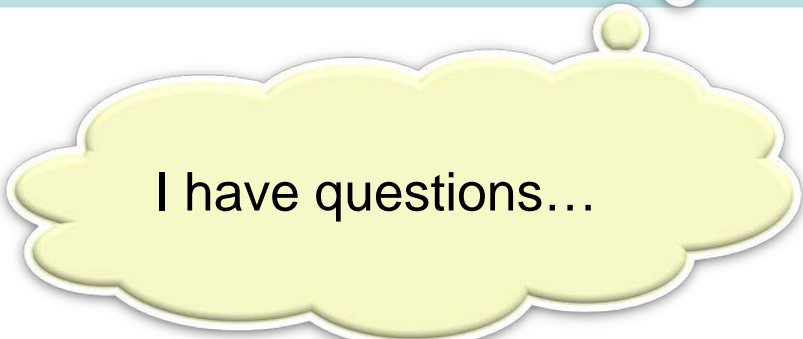
Charise McNamara
ECP Project Manager
Remedial Projects Unit
(602) 771-6890
Cm12@azdeq.gov

Wendy Flood
Community Involvement Coordinator
Remedial Projects Section
(602) 771-4410
Wv1@azdeq.gov

Danielle Taber
ECP VI Project Manager
Remedial Projects Section
(602) 771-4414
Dt3@azdeq.gov

Andre Chiaradia
Unit Manager
Remedial Projects Unit
(602) 771-2296
Rc6@azdeq.gov

Ray Ortega – se habla español
Community Involvement
Remedial Projects Section
(602) 771-4189
ro4@azdeq.gov



I have questions...